PHASE I AND PHASE II ENVIRONMENTAL SITE ASSESSMENT 9790 FINCH AVENUE, FOUNTAIN VALLEY, CALIFORNIA

Prepared For:

BROOKFIELD RESIDENTIAL

3200 Park Center Drive, Suite 100
Costa Mesa, California 92626

Project No. 12418.001

August 30, 2019

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A LEIGHTON GROUP COMPANY

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Brookfield Residential
3200 Park Center Drive, Suite 100
Costa Mesa, California 92626

Attention: Mr. John O'Brien

Subject: Phase I and Phase II Environmental Site Assessment
9790 Finch Avenue
Fountain Valley, California

Leighton and Associates, Inc. (Leighton) is pleased to present this Phase I and Phase II Environmental Site Assessment Report for the property located at 9790 Finch Avenue in the city of Fountain Valley, California (subject site). Leighton declares that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 Code of Federal Regulations (CFR) 312, and the ASTM International (ASTM) Standard E1527-13.

Leighton has the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject site. Leighton has developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

If you have questions regarding this report, please contact us. We appreciate the opportunity to be of service to Brookfield Residential.

Respectfully submitted,

LEIGHTON AND ASSOCIATES, INC.

Meredith Church

Meredith Church, PG 8326
Associate Geologist



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1.0 INTRODUCTION

1.1 Authorization

Leighton and Associates, Inc. (Leighton) performed a Phase I and Phase II Environmental Site Assessment (ESA) of the property located at 9790 Finch Ave in the city of Fountain Valley, Orange County, California (subject site – Figure 1) in accordance with the authorization of Brookfield Residential (Brookfield).

1.2 Purpose

The purpose of the Phase I ESA was to identify, to the extent feasible and pursuant to the processes prescribed in ASTM International (ASTM) E1527-13, recognized environmental conditions (RECs), historical RECs (HRECs), or controlled RECs (CRECs) in connection with the subject site.

RECs are defined, according to ASTM E1527-13 as "*the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not RECs."*

HRECs are defined, according to ASTM E1527-13 as "*a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls.*"

CRECs are defined, according to ASTM E1527-13 as "*a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.*" (ASTM E1527-13, 2013).

The purpose of the Phase I ESA was also to provide appropriate inquiry into the previous ownership and use of the subject site so that the Client may qualify for the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) landowner liability protections as defined in CERCLA, 42 USC

§9601(35)(B). The purpose of the Phase II ESA was to assess the subject site for RECs identified during the review of information for the Phase I ESA.

1.3 Scope of Work

The scope of work was performed in accordance with Leighton's proposal dated May 21, 2019 and included the following tasks:

- A reconnaissance-level visit of the subject site for evidence of the release(s) of hazardous materials and petroleum products and to assess the potential for onsite releases of hazardous materials and petroleum products;
- Records review (including review of previous environmental reports, selected governmental databases, and historical review);
- Interviews; and
- Preparation of this report presenting our findings.

The scope of work was performed in accordance with Leighton's proposals dated July 2, July 12, and August 7, 2019 and included the following tasks:

- A Phase II ESA that included collecting soil, soil vapor, and groundwater samples for chemical analysis and;
- Preparation of this report summarizing our findings and conclusions, including tables, illustrations, and appendices.

1.4 Significant Assumptions

Leighton assumes that the information provided by the Client and its agents, regulatory database provider, and regulatory agencies is true and reliable.

1.5 Limitations and Exceptions

Leighton performed the Phase I and Phase II ESA in conformance with the scope and limitations of ASTM E1527-13. Other than the non-scope items shown in Section 1.6 that were not applicable, there were no exceptions to, or deletions from, this practice.

Property specific activities performed by Leighton and information collected regarding these activities are summarized within this report. The findings of the Phase I and Phase II ESA are presented in Section 8.0. Opinions, and conclusions drawn by Leighton, based on the information collected as part of the Phase I ESA, are presented in Sections 9.0 and 10.0, respectively. References are included as Appendix A. Subject site photographs are presented in Appendix B. Completed interview forms are included as Appendix C. The Environmental Lien and Activities and Use Limitations (AUL) Search report is included in Appendix D. The Environmental Radius Report and Vapor Encroachment Screen are included as Appendix E. Historical documentation is provided in Appendix F. The boring logs are included in Appendix G and the laboratory analytical reports are included in Appendix H.

This Phase I and Limited Phase II ESA was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions.

The observations and conclusions presented in this report are professional opinions based on the scope of activities, work schedule, and information obtained through the Phase I and Phase II ESA described herein. Opinions presented herein apply to property conditions existing at the time of our study and cannot necessarily be taken to apply to property conditions or changes that we are not aware of or have not had the opportunity to evaluate. It must be recognized that conclusions drawn from these data are limited to the amount, type, distribution, and integrity of the information collected at the time of the investigation, the methods utilized to collect and evaluate the data, and that a full and complete determination of environmental risks cannot be made. Although Leighton has taken steps to obtain true copies of available information, we make no representation or warranty with respect to the accuracy or completeness of this information.

This practice does not address whether requirements in addition to all appropriate inquiry have been met in order to qualify for the landowner liability protections including the continuing obligation not to impede the integrity and effectiveness of activity and use limitations, or the duty to take reasonable steps to prevent releases, or the duty to comply with legally required release reporting obligations. Users should also be aware that there are likely to be other legal obligations with regard to hazardous substances or petroleum products discovered on the subject

site that are not addressed in this practice and that may pose risks of civil and/or criminal sanctions for non-compliance.

1.6 Special Terms and Conditions

The scope of work for this Phase I and Phase II ESA did not include testing of electrical equipment for the presence of polychlorinated biphenyls (PCBs) or collection of other environmental samples such as building materials, paint, or other media; assessment of natural hazards such as naturally occurring asbestos, radon gas or methane gas; assessment of the potential presence of radionuclides; or assessment of nonchemical hazards such as the potential for damage from earthquakes or floods, or the presence of endangered species or wildlife habitats. This Phase I and Phase II ESA also did not include an assessment of the environmental compliance status of the subject site or of businesses operating at the subject site.

1.7 User Reliance

This report is for the exclusive use of Brookfield Residential and Brookfield SoCal Builders. Use of this report by any other party shall be at such party's sole risk.

1.8 Important Information about Geoenvironmental Reports

Brookfield is referred to Appendix J regarding important information provided by Geoprofessional Business Association (GBA) on geoenvironmental studies and reports.

2.0 SITE DESCRIPTION

2.1 Location and Legal Description

The subject site is located southwest of Brookhurst Street and Ellis Avenue, at the address of 9790 Finch Avenue in the city of Fountain Valley, Orange County, California (Figure 1, Site Location Map). The Orange County Assessor's office designated the subject site as Assessor Parcel Number (APN) 157-033-15. A legal description for the subject site is included in the Environmental Lien and AUL Search Report attached in Appendix D.

2.2 Subject Site Vicinity General Characteristics

The subject site is zoned PI, Public Institution, (City of Fountain Valley, 2019). The surrounding vicinity is zoned C1, Local Business, to the northeast, east, and southeast, and includes residential zoning designations to the north, west and south. The subject site is relatively flat-lying. The topography of the surrounding vicinity slopes gently overall toward the southwest. The site and immediate surrounding vicinity is depicted on Figure 2, Site Plan.

2.3 Current Use of the Subject Site

The subject site is an approximately 13-acre lot that is developed for municipal use and occupied by the former Moiola Elementary School, which is unoccupied and no longer in use (Appendix B, Photos 1 through 15).

2.4 Descriptions of Structures, Roads and Other Improvements on the Property

The western portion of the subject site is developed with 40,073 square feet of buildings including four classroom buildings each with six classrooms, a central multipurpose room, one administrative building, three restroom/custodial pods, three modular classrooms, an asphalt paved play area, and an asphalt paved parking lot. The eastern portion of the subject site is developed with an asphalt paved parking lot, an asphalt paved play area, and a grassy field play area.

The following utilities provide service to the subject site.

Natural Gas:	Southern California Gas Company
Source of Potable Water:	City of Fountain Valley
Electric:	Southern California Edison

Sewage Disposal:	City of Fountain Valley
Heating/Cooling System:	N/A
Solid Waste Disposal:	City of Fountain Valley

2.5 Current Uses of Adjoining Properties

The subject site is bordered to the north by Finch Avenue followed by Smith Farms agricultural field, a residential neighborhood, and a commercial center that includes but is not limited to a fitness center, dry cleaner (Crown Cleaners, 18583 Brookhurst Street), and a grocery store. The subject site is bordered to the east by a commercial center that includes but is not limited to salons, restaurants, and credit unions, followed by Brookhurst Street. The subject site is bordered to the south by the Fountain Valley Channel, followed by residential neighborhoods, and to the west by residential neighborhoods.

3.0 USER PROVIDED INFORMATION

The user of this Phase I ESA is identified as Brookfield. As a part of the ASTM E1527-13 process, Mr. John O'Brien, Vice President for Brookfield, completed a questionnaire for the subject site. A copy of this questionnaire is provided in Appendix C.

3.1 Environmental Liens or Activity and Use Limitations

Brookfield was not aware of environmental liens or AULs. Environmental liens or AULs were not identified in the Environmental Lien and AUL Search report provided by EDR, dated June 15, 2019. A copy of the Environmental Lien and AUL Search report is included in Appendix D.

3.2 Specialized Knowledge

Brookfield does not have any specialized knowledge or experience with the subject site or nearby properties.

3.3 Commonly Known or Reasonably Ascertainable Information

Brookfield was not aware of any commonly known or reasonably ascertainable information related to the subject site.

3.4 Valuation Reduction for Environmental Issues

Brookfield indicated that the purchase price being paid for the subject site is based on fair market value.

3.5 Owner, Property Manager, and Occupant Information

According to Brookfield and the Environmental Lien and AUL Search report, the subject site is currently owned by Fountain Valley School District. Brookfield indicated that the school is unoccupied and no longer utilized by the school district. A property manager was not identified.

3.6 Reason for Performing Phase I ESA

According to Brookfield the reason for requesting this Phase I ESA is for due diligence purposes related to the purchase of the subject site.

3.7 Other

No additional information was provided by Brookfield.

4.0 RECORDS REVIEW

4.1 Physical Setting Source(s)

Leighton reviewed pertinent maps and readily available literature for information on the physiography and hydrogeology of the subject site. A summary of this information is presented in the following subsections.

4.1.1 Topography

The subject site is located in Section 31 of Township 5 South, Range 10 West of the San Bernardino Baseline and Meridian. Topographic map coverage of the subject site vicinity is provided by the United States Geological Survey (USGS) Newport Beach, California Quadrangle (2012). The elevation of the subject site is approximately 21 feet above mean sea level and the topography of the subject site is relatively flat. The topography of the surrounding vicinity slopes gently overall toward the southwest; however, there is local variability in gradient.

4.1.2 Surface Water

Surface water was not observed on the subject site. The Fountain Valley Channel borders the southern portion of the subject site. The Santa Ana River is located approximately one mile to the east of the subject site.

4.1.3 Geology and Soils

The subject site is located in the Central Plain within the Peninsular Ranges geomorphic province. The boundaries of the Central Plain are defined by the Whittier Fault to the north and the Santa Ana Mountains to the east. During the uplift of the mountain terrain and the formation of the valley, alluvial sediments derived from the mountain areas were deposited in the valley floor and mantle the subject property.

Regional geologic mapping of the project site and vicinity indicates that near-surface native soils beneath the subject site consist of Quaternary-aged younger (Holocene-Pleistocene) alluvium comprised of silty sand (Morton, 2004).

Leighton conducted a concurrent Phase II ESA at the subject site. Clayey silt to silt was primarily encountered in the upper 5 feet of soil. Sandy to silty clay with sand content increasing with increasing depths was primarily encountered from approximately 5 to 10 feet below ground surface (bgs). The deepest soil sample collected was at 10 feet bgs.

4.1.4 Hydrogeology

Groundwater was encountered in 2013 at a depth of approximately 11 feet bgs at Crown Cleaners, 18583 Brookhurst Street, located approximately 140 feet to the north of the Site (Converse Consultants, 2013). According to previous environmental assessments conducted at this facility, the groundwater gradient was reported to be toward the south or southwest. Leighton conducted a concurrent Phase II at the subject site and encountered groundwater from 8.8 to 11.4 feet bgs.

4.1.5 Oil and Gas Fields

Leighton reviewed the California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR), Online Mapping System, on June 13, 2019. Evidence of oil wells or oil field-related facilities was not indicated on the subject site or within 0.25-miles of the subject site.

4.2 Standard Environmental Record Sources

A search of selected government databases was conducted by Leighton using the EDR Radius Map™ Report with GeoCheck® environmental database report system. Details and descriptions of the database search are provided in the EDR database report. The database report meets the government records search requirements of ASTM E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The database listings were reviewed within the specified radii established by the ASTM E1527-13. A copy of this report is included in Appendix E.

4.2.1 Subject Site

The subject site address of 9790 Finch Avenue was not identified in the EDR database report.

4.2.2 Offsite

Information in the EDR database report was reviewed for facilities of potential environmental concern to the subject site. Additionally, the SWRCB Geotracker website and Department of Toxic Substances Control (DTSC) Envirostor website were used to supplement the information in the EDR database report.

The database search results for offsite properties, including those found within the "orphaned" unmapped listings, with potential to adversely impact the subject site, are listed in the table below:

Databases Searched

Database	Search Distance (radius)	Properties of Potential Concern
Federal NPL List	1.0-mile	No
Delisted NPL List	1.0-mile	No
Federal CERCLIS List	0.5-mile	No
CERCLIS – No Further Action	0.5-mile	No
CORRACTS	1.0-mile	No
Federal RCRA TSDF List	0.5-mile	No
RCRA Generators List	0.25-mile	**Yes (8)**
US ENG Controls List	0.5-miles	No
US INST Controls List	0.5-mile	No
US Brownfields	0.5-mile	No
Historic CAL-Sites	1.0-mile	No
SWRCY	0.5-mile	No
Response	1.0-mile	No
Envirostor	1.0-mile	**Yes (3)**
SCH	0.25-mile	No
SWF/LF Facilities	0.5-mile	No
LUST Facilities	0.5-mile	**Yes (8)**
CAL FID UST	0.25-mile	**Yes (4)**
SLIC	0.5-mile	**Yes (2)**
UST	0.25-mile	**Yes (6)**
Historical UST	0.25-mile	**Yes (8)**
AST	0.25-mile	No

Database	Search Distance (radius)	Properties of Potential Concern
SWEEPS UST	0.25-mile	**Yes (4)**
DEED	0.5-mile	No
VCP	0.5-mile	**Yes(1)**
Drycleaners	0.25-mile	**Yes (9)**
Indian RESERV	1.0-mile	No
Indian LUST	0.5-mile	No
Indian UST	0.25-mile	No
EDR Manufactured Gas Plants	1.0-mile	No
EDR Historical Auto Stations	0.25-mile	No
EDR Historical Cleaners	0.25-mile	**Yes (3)**

See EDR Radius Report (Appendix E) for list of acronyms and data sources

A drycleaners, Crown Cleaners, is located approximately 140 feet to the north of the subject site at 18583 Brookhurst Street, and operated from at least 1990 to present day. Crown Cleaners, is listed in the Geotracker database as a cleanup program site. The contaminant of concern was volatile organic compounds (VOCs) and the case was closed on May 29, 2003; however, there were concentrations of tetrachloroethylene (PCE), trichloroethylene (TCE), and cis-1,2-dichloroethene (cis-1,2-DCE) significantly above Maximum Contaminant Levels (MCLs) in groundwater at the time of closure; therefore this facility is considered an offsite REC and a potential vapor encroachment concern. Additional information regarding this facility is reviewed in Section 4.2.4, Regulatory Agency Contacts.

Dye Masters, located 18627 Brookhurst Street approximately 150 feet of the subject site, operated from at least 1991 to 2014 and was reported on the historical cleaners list; although, it's not certain that drycleaning was conducted.

A Phase II ESA was conducted to assess if either of the two cleaning facilities noted above have adversely affected the subject site with VOCs and the assessment is discussed in Section 7.0, Phase II ESA. Based on the results of the assessment, VOCs appear to have migrated onsite from Crown Cleaners, but were not identified as migrating onsite from Dye Masters.

The remaining listings identified in the EDR database report were reviewed and not interpreted to represent an adverse effect to the subject site at the time of this report preparation based on one or more of the following:

- Type of release (soil only);
- Closure received from regulatory agency;
- Distance of the facility to the subject site; and
- Direction of groundwater flow (northeast) and location of the facility to the subject site (cross-gradient or down-gradient).

4.2.3 Vapor Encroachment

Leighton reviewed the Vapor Encroachment Screen (VES) produced using EDR's Vapor Encroachment Worksheet application that gathers regulatory database information from the accompanying Radius Report and allows the user to integrate groundwater information, regional geology, and other information to evaluate the concern for potential vapor encroachment from onsite activities and from adjacent properties. The VES application was designed by EDR to assist parties seeking to meet the search requirements of the ASTM Standard Practice for Assessment of Vapor Encroachment into Structures on Property Involved in Real Estate Transactions (E2600-10), also referred to as the Tier 1 VES, as defined by ASTM E2600-10.

As discussed in Section 4.2.2, two offsite facilities with potential vapor encroachment concern was identified in the EDR database report. A copy of the VES report has been included as Appendix E.

4.2.4 Regulatory Agency Contacts

On June 12 and 13, 2019, Leighton requested regulatory records for the address 9790 Finch Avenue. The following agencies were contacted or their respective online databases were researched:

- DTSC (Cypress and Chatsworth offices);
- Orange County Sanitation District (OCSD);
- Regional Water Quality Control Board – Santa Ana Region (SA-RWQCB);
- The City of Fountain Valley

- Orange County Health Care Agency (OCHCA)
- South Coast Air Quality Management District (SCAQMD); and
- National Pipeline Mapping System (NPMS).

Records or pipelines were not found for the subject site at the agencies contacted. Regulatory response and records are included in Appendix F.

Records were reviewed at the SA-RWQCB and OCHCA for the offsite property of Crown Cleaners (18583 Brookhurst Street, Fountain Valley). The OCHCA was the lead regulatory oversight agency for the facility. A representative of Leighton conducted a file review at the SA-RWQCB and the OCHCA on July 2, 2019, and July 12, 2019, respectively, for the Crown Cleaners facility. The files consisted of site assessment reports and a remedial action report all prepared by Converse Consultants, and an OCHCA Case Closure letter, dated between 1996 and 2003, and an additional assessment report conducted in 2013.

Concentrations of PCE in soil were detected up to a maximum of 63 milligrams per kilogram (mg/kg) at one foot bgs and in the vicinity of the drycleaning equipment and boiler room and concentrations were found to decrease laterally and vertically. PCE, TCE, and cis-1,2-DCE were detected in groundwater grab samples within the cleaners unit at maximum concentrations of 1,000 µg/L, 160 µg/L, and 14 µg/L, respectively, in September 2002. The maximum concentration reported in the down-gradient direction (south and/or southwest) for PCE, TCE, and cis-1,2-DCE was reported to be 375 µg/L, 94 µg/L, and 100 µg/L, respectively, sampled in March, 2002.

Approximately 55 cubic yards of PCE and TCE impacted soil was removed from beneath the concrete slab inside the Crown Cleaners facility. Confirmation samples were collected along the sidewalls and the bottom of the remedial excavation. Concentrations of PCE exceeding the US EPA RSL were identified in two locations following the remedial excavation. Converse estimated that less than 1.5 cubic yards of impacted soil containing PCE concentrations greater than EPA Regional Screening Level (RSL) of 5.7 mg/kg were left behind once the soil removal was complete. The excavation was backfilled with cement slurry and the dry cleaning machine and its containment pan were then reinstalled.

A vapor risk assessment was conducted for the Cleaners and the adjoining commercial facilities using the OCHCA mass-based model and the risk was calculated to be less than one in a million for the occupants.

OCHCA consulted with the SA-RWQCB regarding the presence of contamination in groundwater. The highest concentration of PCE at 1,000 µg/L and TCE at 160 µg/L was reported to be confined to groundwater beneath the western half/back doors of Crown Cleaners and the commercial unit to the south. It was concluded that because the source of contamination had been removed and that a future release was not likely due to the presence of a secondary containment beneath the machine, that additional groundwater contamination was not anticipated. Because of this and the expected natural attenuation of existing groundwater contamination over time, the SA-RWQCB decided to not require further groundwater investigation or remedial action for the facility. The OCHCA case closure rational dated May 15, 2003, stated that: “Based on the low concentrations of PCE, TCE, and DCE beneath the dry cleaner and adjacent tenant sites that do not pose any serious threat to health or safety, as well as the Regional Board’s position that no further groundwater investigation is required, it is recommended that this case be closed”. OCHCA issued a Case Closure letter on May 29, 2003.

In March 2013, Converse Consultants conducted a Limited Phase II Subsurface investigation at Crown Cleaners due to the cleaners having reportedly continued to use PCE in its drycleaning operations until at least May 2005, after the remedial cleanup conducted in 2002. Converse advanced three soil borings, two within the drycleaners (B2-front of cleaners and B3) and one outside the rear entrance (B1-closest to subject site). Soil samples were collected at 2, 5, and 10 feet bgs and groundwater samples were collected from borings B1 and B2. Six of the nine soil samples and both groundwater samples were analyzed for VOCs. VOCs were detected in all of the soil samples including benzene, cis-1,2-DCE, trans-1,3-DCE, PCE, and TCE at maximum concentration of 1.16 µg/kg, 50.3 µg/kg, 5.17 µg/kg, 5,750 µg/kg, and 1,000 µg /kg, respectively. One soil sample exceed the residential RSL concentration for TCE of 910 µg/kg, but not the commercial RSL of 6,400 µg/kg.

Cis-1,2-DCE, trans-1,2-DCE, PCE, and TCE were detected above the MCLs in B1 at concentrations of 441 µg/L, 18.6 µg/L, 41.5 µg/L, and 467

µg/L, respectively. Cis-1,2-DCE, PCE, and TCE were detected above the MCLs in B2 at concentrations of 22.9 µg/L, 42.4 µg/L, and 408 µg/L, respectively. The California MCLs for cis-1,2-DCE, trans-1,2-DCE, PCE, and TCE are 6 µg/L, 10 µg/L, 5 µg/L, and 5 µg/L, respectively. Converse recommended further assessment of soil, soil gas, and groundwater to determine the extent of contamination.

A request for remedial action supervision was submitted on March 26, 2013, by Converse on behalf of the property owner Donahue Schriber Realty Group. OCHCA submitted letters on April 3 and 4, 2013, indicating that the agency agreed to provide remedial oversight and concurred with the Converse recommendation to conduct additional investigation to further characterize the contamination at the site. Converse submitted a letter dated May 15, 2013, stating that they were withdrawing from the Remediation action Supervision program for the site. The reason for withdrawing from the program was stated to be that after further review of the prior assessment reports, the concentrations of PCE and TCE detected in groundwater during Converse's sampling event in March 2013 appeared to be of the same magnitude as when the original case received closure in May 2003 (OCHCHA Case #961C031).

4.3 Historical Use Information on the Property

Leighton reviewed selected historical information on the subject site. These references were reviewed for evidence of activities, which would suggest the presence of hazardous substances at the subject site and to evaluate the potential for the subject site to be impacted by offsite sources of contamination. The historical records researched are included in Appendix G. The following paragraphs are a chronological summary of the review.

4.3.1 Aerial Photographs

Historical aerial photographs were reviewed for information regarding past subject site uses. Aerial photographs dated 1938, 1947, 1953, 1963, 1972, 1977, 1987, 1990, 1994, 2005, 2009, 2012, and 2016 provided by EDR, were reviewed. Copies of these photographs are included in Appendix G.

In the **1938, 1947, 1953,** and **1963** aerial photographs, structures were not observed on the subject site or surrounding sites, and the properties appeared to be used for agricultural crops.

In the **1972** and **1977** aerial photographs, the present day Moiola Elementary School is observed onsite. Vacant agricultural land is observed to the north followed by Ellis Avenue. Vacant agricultural land is depicted to the east followed by Brookhurst Street. The Fountain Valley Channel is observed to the south of the subject site, followed by agricultural vacant land. Residential neighborhoods are depicted to the west of the subject site.

In the **1987** aerial photograph, significant land use changes are not observed on the subject site and surrounding properties with the exception that a commercial center is observed to the northeast of the subject site and a residential neighborhood to the south of the subject site.

In the **1990** and **1994** aerial photographs, significant land use changes are not observed on the subject site and surrounding properties with the exception that Finch Avenue followed by residential neighborhoods are observed to the north of the subject site and a commercial center is observed to the east of the subject site.

In the **2005, 2009, 2012,** and **2016** aerial photographs, the subject site and surrounding properties are observed to be in their present-day use and configuration.

4.3.2 Historical Topographic Maps

Historical topographic maps provided in the EDR Historical Topographic Map Report were reviewed for information regarding past subject site uses, and include the following quadrangles: Santa Ana (1896, 1901, and 1942), Corona (1902), and Newport Beach (1932, 1935, 1949, 1951, 1965, 1972, 1981, and 2012). Copies of these maps are provided in Appendix G.

1896: No structures, tanks, or wells are depicted on the subject site. The subject site and surrounding properties are depicted as vacant land.

1901 and **1902:** No structures, tanks, or wells are depicted on the subject site. A structure is depicted adjacent to the north of the subject site. Scattered structures are depicted in the surrounding vicinity.

1932, 1935, and **1942:** Vacant land is depicted onsite. Scattered structures are depicted in each direction of the subject site. Wright Street, present day

Brookhurst Street, is depicted to the east of the subject site. Ellis Avenue is depicted to the north of the subject site.

1949 and **1951**: Significant land use changes are not depicted on the subject site. Vacant land is depicted in each direction of the subject site.

1965: Significant land use changes are not depicted on the subject site. Four structures are depicted to the north of the subject site followed by Ellis Avenue. Vacant land is depicted to the east of the subject site, followed by Brookhurst Street. The Fountain Valley Channel is depicted to the south of the subject site followed by vacant land. The area to the west of the subject site is depicted as a red shaded area in which only landmark buildings are shown.

1972: The present day Moiola Elementary School is depicted on the subject site. Significant land use changes are not depicted on the areas surrounding the subject site.

1981 and **2012:** The subject site and surrounding properties are depicted in a red-shaded area in which only landmark buildings are shown. No buildings are depicted on the subject site and surrounding properties. Brookhurst Street is depicted to the east of the subject site. Ellis Avenue is depicted to the north of the subject site.

4.3.3 Fire Insurance Maps

Fire insurance maps, or Sanborn® maps, are detailed city plans showing building footprints, construction details, use of structure, street address, etc. The maps were designed to assist fire insurance agents in determining the degree of hazard associated with a particular property. Sanborn Maps were produced from approximately 1867 to the present for commercial, industrial, and residential sections of approximately 12,000 cities and towns in the United States.

Sanborn Fire Insurance Maps for the subject site vicinity have not been published. A copy of this report has been provided in Appendix G.

4.3.4 Historical City Directories

City Directories have been published for cities and towns across the US since the 1700s. Originally a list of residents, the City Directory developed into a tool for locating individuals and businesses in particular. For each street address listed, the directory recorded the name of the resident or business that operated from this addresses. While City Directory coverage is usually comprehensive for major cities, it may be sporadic for rural areas and small towns. The purpose of the City Directory research was to attempt to determine the businesses that were historically located at the subject site and adjacent addresses.

Leighton reviewed the EDR City Directory Abstract dated June 13, 2019 (Appendix F). Records were reviewed from 1972 to 2014 at approximate 5-year intervals. The subject site was identified in the city directory search as Fountain Valley School District (Moiola Elementary) from the years 1972 to 2014.

No addresses were listed for the surrounding properties.

4.3.5 Building Department Records

On June 13, 2019, building permit records for the subject site addresses were reviewed on the EDR Building Permit Report. No relevant permits were found for the subject site.

4.3.6 Summary of Historical Land Use

Based on historical records, land usage is summarized as follows:

Time Period	Land Usage	Reference
Prior to 1896	Unknown	None Available
Approximately 1896 to 1972	Vacant land that appears to have been used for agricultural crops from at least 1938 through the 1960s	Topographic Maps Aerial Photographs
Approximately 1972 to present	Moiola Elementary School	Topographic Maps Aerial Photographs Site Reconnaissance

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

On June 13, 2019, a representative of Leighton conducted a reconnaissance–level assessment of the subject site, which consisted of observing and documenting existing conditions of the subject site and nature of the neighboring development. Photographs of the subject site are presented in Appendix B and their view directions are noted on Figure 2. Items noted during the subject site reconnaissance are also depicted on Figure 2.

5.2 General Property Setting

The subject site is an approximately 13-acre lot that is developed for municipal use and occupied by the former Moiola Elementary School, which is no longer in use (Appendix B, Photos 1 through 15). The western portion of the subject site is developed with 40,073 square feet of buildings including four classroom buildings each with six classrooms, a central multipurpose room, one administrative building, three restroom/custodial pods, three modular classrooms, an asphalt paved play area, and an asphalt paved parking lot. The eastern portion of the subject site is developed with an asphalt paved parking lot, an asphalt paved play area, and a grassy field area. The surrounding vicinity is mixed residential and commercial retail.

5.3 Exterior and Interior Observations

5.3.1 Hazardous Substances, Drums, and Other Chemical Containers

Several containers, less than five gallons in size, of hazardous substances primarily related to the upkeep of the elementary school (paints and cleaning supplies), were observed in the custodial closet in the western portion of the subject site.

5.3.2 Storage Tanks

Evidence of underground storage tanks (USTs) (such as vent lines, fill or overfill ports) and aboveground storage tanks (ASTs) was not observed on the subject site.

5.3.3 Polychlorinated Biphenyls (PCBs)

No transformers or other equipment known to contain PCBs were observed onsite.

5.3.4 Waste Disposal

Waste generated onsite is removed on a weekly basis by the City of Fountain Valley.

5.3.5 Dumping

Evidence of dumping was not observed on the subject site.

5.3.6 Pits, Ponds, Lagoons, Septic Systems, Wastewater, Drains, Cisterns, and Sumps

Evidence of pits, ponds, lagoons, septic systems, and cisterns was not observed on the subject site.

Several floor drains, mainly within bathroom and kitchen areas, were observed within the onsite structures. A storm water drain was observed in the southeast portion of the subject site, next to the Fountain Valley Channel. The drains were observed to be free of debris and oily substances.

5.3.7 Pesticide Use

Evidence of pesticide use was not observed on the subject site.

5.3.8 Staining, Discolored Soils, Corrosion

Evidence of staining, discolored soils, or corrosion was not observed on the subject site.

5.3.9 Stressed Vegetation

Evidence of stressed vegetation was not observed on the subject site.

5.3.10 Unusual Odors

Unusual odors were not detected on the subject site.

5.3.11 Onsite Wells

Oil, gas production, or water wells were not observed on the subject site.

5.3.12 Other Observations

A wheel chair lift was observed in the central portion of the classroom area onsite during the site reconnaissance. Leighton did not have access inside of it, but it does not appear to be hydraulically operated.

No other observations of environmental concern were noted on the subject site.

6.0 INTERVIEWS

Leighton conducted interviews with persons having knowledge of current or past subject site usage. Interviews were conducted either orally or in the form of a written questionnaire. Written responses, if any, are included as Appendix C.

6.1 Interview with Owner

The property owner was not interviewed as part of this assessment; however, items of potential environmental concern were not relayed to the Brookfield, the prospective purchaser.

6.2 Interview with Property Manager

A property manager was not identified to be associated with the subject site.

6.3 Interviews with Occupants

The subject site is unoccupied.

6.4 Interviews with Local Government Officials

Leighton did not interview employees with local government agencies to request information regarding historic and current uses of the subject site with the exception of those noted in Section 4.2.

6.5 Interviews with Others

Leighton did not conduct additional interviews for this Phase I ESA.

7.0 PHASE II ESA

On July 11, July 16, August 13, and August 22, 2019, Leighton completed a Phase II ESA of the subject site. The purpose of the Phase II ESA was to assess the subject site for the presence of contaminants of concern associated with the following potential RECs identified for the subject site during the Phase I ESA assessment:

- The subject site appears to have been utilized for agricultural purposes from at least the 1930s through the 1960s. Moiola School appears to have occupied the subject site from at least 1972 through the present; although, it is no longer utilized as a school and is vacant at this time. The former use of the subject site for agricultural purposes and the age of the onsite structure are identified as potential RECs based on treatments for pests that were historically commonly utilized. Agricultural crops and the perimeter of buildings constructed prior to 1978 historically had organochlorine pesticides (OCPs) and/or arsenical pesticides applied to control agricultural pests and termites.

- Crown Cleaners is a drycleaner establishment located approximately 140 feet to the north of the subject site at 18583 Brookhurst Street that has operated from at least 1990 through the present. Crown Cleaners is identified as an offsite REC and potential vapor encroachment concern due to shallow groundwater at approximately 10 feet below with VOCs documented at concentrations in excess of MCLs. In addition, Dye Masters, located 18627 Brookhurst Street approximately 150 feet of the subject site, operated from at least 1991 to 2014 and was reported on the historical cleaners list; although, it's not certain that drycleaning was conducted.

The scope of work for the Phase II ESA is described below.

7.1 Pre-Field Activities

7.1.1 Health and Safety Plan

A Site Specific Health and Safety Plan (HSP), which included safety aspects of the work to be performed at the subject site was prepared in compliance with the Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1910.120 and California Code of Regulations 5192. The HSP was onsite with Leighton personnel at all times. The HSP outlined all subject site procedures, potential hazards, and contained a hospital location map. All

onsite Leighton personnel acknowledged acceptance of the plan by signing the HSP.

7.1.2 Utility Clearance

Underground Service Alert (USA) was contacted two business days prior to the commencement of fieldwork to mark public underground utility locations. Each proposed boring location was clearly marked in white paint or painted white stakes prior to contacting USA.

7.2 Field Activities

7.2.1 Soil Gas Survey

On July 11 and August 22, 2019, a survey was performed at the subject site to evaluate subsurface conditions for the presence of VOCs in soil gas. A total of 15 soil gas probes were advanced at the northeast portion of the subject property to a depth of 5 feet bgs (Figure 3). Deeper soil gas probes were not installed due to the presence of groundwater at the Site between approximately 8 and 11 feet bgs. The soil gas survey was performed in general conformance with the California Environmental Protection Agency – DTSC and California Regional Water Quality Control Board – Los Angeles and San Francisco Region's (LARWQCB and SFRWQCB) Advisory – Active Soil Gas Investigations, July 2015.

Soil gas sampling was performed by hydraulically pushing dedicated stainless steel soil gas probes to a depth of 5 feet bgs. An electric rotary hammer drill was used to drill a 1.0-inch diameter hole through the overlying surface to allow probe placement when required. The same electric hammer drill was used to push probes in areas of resistance during placement.

At each sampling location, an electric vacuum pump set to draw 0.2 liters per minute (L/min) of soil vapor was attached to the probe and purged prior to sample collection. Vapor samples were obtained in SGE gas-tight syringes by drawing the sample through a luer-lock connection which connects the sampling probe and the vacuum pump. Samples were immediately injected into the gas chromatograph/purge and trap after collection. New tubing was used at each sampling point to prevent cross contamination.

All analyses were performed on a laboratory grade Agilent model 6890N gas chromatograph equipped with an Agilent model 5973N Mass Spectra Detector and Tekmar LSC 3100 Purge and Trap. A Restek column using helium as the carrier gas was used to perform all analysis. All results were collected on a personal computer utilizing Agilent's MS and chromatographic data collection and handling system. A replicate analysis (duplicate) was run to evaluate the reproducibility of the sampling system and instrument. The difference between samples did not vary more than 20%.

Blanks were run at the beginning of each workday and after calibrations. The blanks were collected using an ambient air sample. These blanks checked the septum, syringe, GC column, GC detector and the ambient air. Contamination was not found in any of the blanks analyzed during this investigation. Blank results are given along with the sample results.

A tracer gas was applied to the soil gas probes at each point of connection in which ambient air could enter the sampling system. These points include the top of the sampling probe where the tubing meets the probe connection and the surface bentonite seals. Isobutane was used as the tracer gas. No Isobutane was found in any of the samples collected.

A shut-in test was conducted prior to purging or sampling each location to check for leaks in the above-ground sampling system. The system was evaluated to a minimum measured vacuum of 100 inches of water. The vacuum gauge was calibrated and sensitive enough to indicate a water pressure change of at least 0.5 inches.

7.2.2 Drilling and Soil Sampling

On July 16, 2019, Leighton directed the advancement of 21 soil borings (B1 through B21) to a total depth of between 5 and 15 feet bgs throughout the subject site (Figure 4, Boring Location Map). The borings were advanced using hand auger equipment operated by Millennium Environmental, Inc., a State of California licensed drilling contractor to a depth of 5 feet bgs at each location. Five borings, B7, B10, B11, B13, and B14, were further advanced from 5 feet to 15 feet bgs utilizing a direct push drill rig. Soil samples were collected at depths of 1.0, 2.5, and 5 feet bgs at each boring, and at a depth

of 10 feet bgs at B10, B13, and B14. Duplicate soil samples were collected at a rate of 10 percent. Groundwater was also collected at a depth between 10 to 15 feet bgs at B7, B10, B11, B13, and B14, as described in Section 7.2.3. Soil samples were logged and described under direct supervision of a licensed California Professional Geologist (PG) and boring logs are included in Appendix H. Soil samples were retained in 8-ounce laboratory-supplied glass jars or acetate sleeves covered with a Teflon sheet and plastic cap. The containers were clearly marked with sample identification, placed in an ice-cooled chest for temporary storage, and transported to Advanced Technology Laboratories (ATL) for chemical analysis. ATL is accredited by the Environmental Laboratory Accreditation Program (No. 1838). Chain-of-custody protocol was followed throughout all phases of the sample handling process.

On August 13, 2019, Leighton directed the advancement of 8 step-out borings around B7 to a total depth of 5 feet bgs. The borings were advanced using hand auger equipment operated by Millennium Environmental, Inc. Soil samples were collected at depths of 1.0, 2.5, and 5.0 feet bgs. Two duplicate samples were collected. The protocol listed above was followed.

Each soil sample was field screened using a PID to evaluate the soil sample for the presence of volatile organic hydrocarbon vapors and the results are include don the boring logs (Appendix H). All PID readings were zero with the exception of 0.7 parts per million (ppm) from B14-10.

7.2.3 Grab Groundwater Sampling

Grab groundwater samples were collected from borings B7, B10, B11, B13, and B14. Groundwater was encountered at depths between 8.80 and 11.40 feet bgs. Approximately 5 feet of slotted PVC was installed within the open borehole from 10 to 15 feet bgs. Grab groundwater samples were collected using new dedicated tubing lowered through the PVC. A peristaltic pump was used to bring the groundwater samples to the surface through the tubing and into laboratory-supplied containers with proper preservative. One duplicate sample was collected.

7.3 Laboratory Analysis

Select soil samples collected from the subject site on July 16, 2019 were analyzed for one or more of the following constituents:

- Organochlorine Pesticides (OCPs) by EPA Method 8081 (all 1.0, 2.5, and 5.0 foot samples);
- Arsenic by EPA Method 6010 (all 1.0, 2.5, and 5.0 foot samples); and
- VOCs by EPA Method 8260B/5035 (all 1.0, 2.5, 5.0, and 10.0 foot samples from B13 and B14, and 5.0 and 10.0 foot samples from B10).

Soil gas samples collected on July 11, 2019 were immediately injected into an onsite mobile laboratory gas chromatograph/purge and trap system, operated by Optimal Technology of Thousand Oaks, California, after collection. Each soil gas sample was analyzed for the tracer gas and VOCs by modified EPA Method 8260B.

Groundwater samples collected on July 16, 2019 were analyzed for VOCs by EPA Method 8260B.

7.4 Soil Gas Analytical Results

Results of the chemical analyses of the soil gas samples are compared to the following adjusted screening levels for indoor air in a residential setting assuming a slab attenuation factor of 0.03 (EPA RSL; EPA, 2015) and 0.001 (DTSC-SL, DTSC, 2011):

- The Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) (EPA, April 2019); and
- The Department of Toxic Substances Control Screening Levels (DTSC-SLs), (DTSC, April 2019).

A copy of the laboratory report is presented in Appendix I. A summary of soil vapor laboratory results is presented in Tables 1 and are depicted on Figures 3a and 3b. The soil gas results are summarized in the following sub-section.

7.4.1 Volatile Organic Compounds

Ten soil gas probe locations (ENV-1 to ENV-10) were advanced on July 11, 2019 and five VOCs were detected above the laboratory reporting limits in one or more soil gas samples analyzed. Leighton advanced five additional soil gas probes (ENV-11 to ENV-15) south of the previous locations on August 22, 2019, and VOCs were not detected over the laboratory limits. The concentrations of the five VOCs detected during this investigation are presented below:

Boring	PCE (µg/L)	TCE (µg/L)	Cis-1,2-DCE (µg/L)	Trans-1,2-DCE (µg/L)	Chloroform (µg/L)
RSL	0.37	0.02	N/A	N/A	0.04
DTSC-SL	0.46	0.48	8.3	83	N/A
ENV-1	<0.01	<0.01	<0.20	<1.0	<0.004
ENV-2	<0.01	<0.01	<0.20	<1.0	<0.004
ENV-3	<0.01	<0.01	<0.20	<1.0	<0.004
ENV-4	**11.43**	**9.5**	**6.73**	**1.04**	**0.03**
ENV-5	**10.27**	**0.10**	<0.20	<1.0	<0.004
ENV-6	**0.01**	<0.01	<0.20	<1.0	<0.004
ENV-7	<0.01	**0.15**	**4.31**	<1.0	<0.004
ENV-8	<0.01	<0.01	**0.46**	<1.0	<0.004
ENV-9	<0.01	<0.01	<0.20	<1.0	<0.004
ENV-9	<0.01	<0.01	<0.20	<1.0	<0.004
ENV-10 DUP	<0.01	<0.01	<0.20	<1.0	<0.004
ENV-11	<0.01	<0.01	<0.20	<1.0	<0.001
ENV-12	<0.01	<0.01	<0.20	<1.0	<0.001
ENV-13	<0.01	<0.01	<0.20	<1.0	<0.001
ENV-14	<0.01	<0.01	<0.20	<1.0	<0.001
ENV-15	<0.01	<0.01	<0.20	<1.0	<0.001

Note: **Bold** indicates detection above laboratory detection limit, RED indicates detection above screening level referenced (RSL attenuation factor = 0.03, DTSC-SL attenuation factor = 0.001).

PCE was detected in two soil gas samples (ENV-4 and ENV-5) at concentrations exceeding the DTSC-SL of 0.46 µg/L and TCE was detected in one soil gas sample (ENV-4) at a concentration exceeding the DTSC-SL of 0.48 µg/L. These samples are highlighted on Figures 3a and 3b and show soil vapor impacts above DTSC-SLs to ENV-4 and ENV-5, using the documented

attenuation factor of 0.001 which is the prevailing guidance document at this time. However, it is Leighton's understanding that a new guidance is being prepared and that in the meantime, DTSC is recommending an evaluation utilizing the EPA attenuation factor of 0.03. Utilizing the EPA RSLs and attenuation factor of 0.03 results in TCE exceeding the RSL in two additional soil gas samples (ENV-5 and ENV-7). It is not certain that an attenuation factor of 0.03 could be applied to the DTSC-SLs; however, this consideration is also depicted in Table 1. Considering a most conservative scenario, cis-1,2-DCE would exceed the DTSC-SL/attenuation factor 0.03 in three soil gas probes (ENV4, ENV7, and ENV8), and chloroform would exceed the DTSC-SL/attenuation factor 0.03 in one soil gas probe (ENV4). Considering the most conservative scenario, one or more VOC exceeds a screening level in soil gas probe locations ENV-4, ENV-5, ENV-7, and ENV-8 (Table 1).

7.5 **Soil Analytical** Results

The soil analytical results were compared to one or more of the following regulatory screening criteria:

- The EPA Residential Regional Screening Levels (RSLs, April 2019) for OCPs and VOCs;
- The DTSC Southern California Background concentration of 12 milligrams per kilogram (mg/kg) for arsenic; and
- The DTSC Office of Human and Ecological Risk (HERO) Note Number 3 Screening Levels (DTSC-SL) (April 2019) for OCPs and VOCs.

The complete laboratory reports are included in Appendix I. A summary of soil laboratory results is presented in Tables 2 and 3.

7.5.1 **Arsenic**

Arsenic was detected in all of the soil samples at concentrations ranging from 1.4 mg/kg in B21-2.5 to 4.8 mg/kg in B19-2.5. None of the arsenic concentrations in the soil samples exceeded the Southern California Region Background Arsenic Concentration Limit of 12 mg/kg. The arsenic analytical results are summarized in Table 2.

7.5.2 Organochloride Pesticides

Five OCPs were detected above the laboratory reporting limits in one or more soil samples analyzed during this investigation. The maximum concentrations of the five OCPs detected during this investigation are presented below (the screening level is the lower of the RSL and the DTSC-SL):

VOC	Maximum Concentration (µg/kg)	Screening Level (µg/kg)	Boring and Sample Depth
4,4'-DDD	24	1,900	B11-2.5
4,4'-DDE	830	2,000	B12-1.0
4,4'-DDT	270	1,900	B7-2.5
Dieldrin	12	34	B7-2.5
Toxaphane	**680**	490	B7-2.5

Note: **RED** indicates detection above screening level

There was one detection of an OCP from 63 soil samples locations at a concentration that exceeded a screening level. Toxaphene was detected in sample B7-2.5 at a concentration of 680 µg/kg, exceeding the DTSC-SL of 450 µg/kg. Toxaphene was not detected above the laboratory detection limit in the 5.0 foot sample or any other samples, with the exception of sample B1-1.0 at a concentration of 190 µg/kg. No other OCPs analyzed were detected above the residential screening limits.

On August 13, 2019, Leighton directed the advancement of 8 step-out borings around B7, two in each direction (N, E, S, and W) spaced out 5 and 10 feet from B7. Toxaphene was not detected above the laboratory reporting limit in any of the step-out samples. All other OCPs were either not detected above the laboratory reporting of did not exceed the residential screening limits. The OCP analytical results are summarized in Table 3.

7.5.3 Volatile Organic Compounds

VOCs were detected in eight of the 11 soil samples that were analyzed, including benzene, ethylbenzene, toluene, and xylenes (BTEX), carbon disulfide, and cis-1-2-DCE and TCE (chlorinated solvents, associated with drycleaners). These concentrations are well below the residential screening levels. The only soil sample that contained chlorinated solvents

was B14-10.0, the boring closest to the drycleaners and at the depth where groundwater was encountered; therefore, the chlorinated solvents appear to have migrated to the soil through the contaminated groundwater. Soil in the vadose zone in the areas assessed was not affected with chlorinated solvents. The VOC analytical results are summarized in Table 3.

7.6 Groundwater Results

Groundwater analytical results were compared to the California Maximum Concentration Limits (MCLs) for drinking water. The results of the laboratory analyses of groundwater samples collected during this investigation are summarized in Table 3 and below:

7.6.1 Volatile Organic Compounds

Seven VOCs were detected in one or more of the six groundwater samples (five locations and one duplicate) analyzed during this investigation. Maximum concentrations were detected as follows:

Analyte	Maximum Concentration (µg/L)	MCL (ug/L)	Boring
Bromoform	16	80	B7-GW, B13-GW, B13-GWD
Benzene	0.77	1.0	B13-GW
cis-1,2-DCE	**120**	6	B14-GW
trans-1,2-DCE	5.2	10	B14-GW
TCE	**12**	5	B14-GW
Dibromochloromethane	6.2	80	B7-GW
Toluene	0.8	150	B13-GW

Note: **RED** indicates detection above MCL

Cis-1,2-DCE was detected in two of the five groundwater locations, including the duplicate sample collected (B13-GW, B13-GWD, and B14-GW). The concentrations of each of these samples (13 µg/L, 13 µg/L, and 120 µg/L, respectively) exceeded the California Maximum Concentration Limit (MCL) of 6 µg/L.

Trichloroethene was detected in one of the five groundwater locations collected (B14-GW – 12 µg/L). The concentration of this sample exceeded the California Maximum Concentration Limit (MCL) of 5 µg/L.

It should be noted that the shallow groundwater is not used as drinking water. The groundwater VOC analytical results are summarized in Table 4.

8.0 FINDINGS

Leighton performed a Phase I ESA of the property located at 9790 Finch Avenue in the city of Fountain Valley, Orange County, California (subject site – Figure 1) in accordance with Brookfield's authorization.

8.1 Onsite

The subject site is an approximately 13-acre lot that is developed for municipal use and occupied by the former Moiola Elementary School (Appendix B, Photos 1 through 15). The subject site appears to have been used for agricultural purposes from at least 1938 through the 1960s. The present school campus was constructed in 1972 and was vacated in 2013 and the structures are not utilized at this time. The western portion of the subject site is developed with 40,073 square feet of buildings including four classroom buildings each with six classrooms, a central multipurpose room, one administrative building, three restroom/custodial pods, three modular classrooms, an asphalt paved play area, and an asphalt paved parking lot. The eastern portion of the subject site is developed as an asphalt paved parking lot, an asphalt paved play area, and a grassy field area.

Several containers, less than five gallons in size, of hazardous substances primarily related to the upkeep of the elementary school (paints and cleaning supplies), were observed in the custodial closet in the western portion of the subject site. A wheel chair lift was observed in the central portion of the classroom area onsite. Leighton did not have access inside of it, but it does not appear to be hydraulically operated.

A search of selected government databases was conducted by Leighton using the EDR Radius Report environmental database report system. The subject site was not identified in the EDR database report.

Leighton conducted a Phase II ESA to assess the former agricultural use and possible termiticide use (OCPs and arsenic), and an offsite drycleaners (VOCs) (Section 8.2). The findings of our Phase II ESA of the subject site were as follows:

- Arsenic was not detected in soil samples at concentrations exceeding screening criteria.
- One soil sample contained an OCP at a concentration that exceeded a screening level. The soil sample was B7 at a depth of 2.5 feet and contained

toxaphene at a concentration of 680 µg/kg, exceeding the DTSC-SL of 450 µg/kg. OCPs were detected in a number of other samples; however, not at concentrations that exceeded screening levels. Eight step-out borings (5 and 10 feet) were conducted around boring B7 and toxaphene was not detected in any of these step-out samples. The area where toxaphene exceeded the screening criteria appears to be very limited laterally and vertically.

- VOCs were not detected in soil samples at concentrations exceeding screening criteria.

- VOCs were detected in soil vapor samples at concentrations exceeding DTSC-SLs with an attenuation factor of 0.001 in two of the 15 soil vapor probes and included ENV4 and ENV5. PCE was detected in ENV4 and ENV5 at a concentration of 11.43 µg/L and 10.27 µg/L, respectively, exceeding the DTSC-SL of 0.46 µg/L. TCE was detected in ENV4 at a concentration of 9.15 µg/L, exceeding the DTSC-SL of 0.48 µg/L. The soil vapor VOC results are shown on Figure 3a and 3b. For a discussion of soil vapor results that exceed the RSL and DTSC-SL utilizing an attenuation factor of 0.03, see Section 7.41 and Table 1 (includes 4 locations – ENV-4, ENV-5, ENV-7, and ENV-8). Probes downgradient of ENV-4, ENV-5, ENV-7, and ENV-8 did not contain concentrations of VOCs that exceeded the regulatory screening levels, including probes ENV-6, and ENV-11 through ENV-15.

- VOCs were detected in groundwater at concentrations exceeding the MCLs in two of five groundwater samples, B13 and B14. TCE was detected in B14 at a concentration of 12 µg/L, exceeding the MCL of 5 µg/L. Cis-1,2 DCE was detected at a concentration of 120 µg/L and 13 µ/L, from B14 and B13, respectively, exceeding the MCL of 6 µg/L. The groundwater chlorinated VOC results are shown on Figure 5.

Figures 3a and 3b (soil vapor) and 5a and 5b (groundwater) depict the chlorinated solvent results in soil vapor and groundwater and are overlaid on the proposed development plans for the Site. At this time, there are two proposed development plans. Plan 1 (Figure 3a and 5a) includes a park on the western portion of the subject site and residential dwellings within the area where VOCs have been detected in soil vapor and groundwater at concentrations exceeding screening levels (ENV-4, ENV-5 [Lot 28], and potentially ENV-7 and ENV-8 [Lots 26 and 27]). Plan 2 (Figures 3b and 5b) includes a park in the northeast corner of the Site in the vicinity of the area where elevated concentrations of chlorinated solvents have been detected in soil vapor and groundwater.

In Plan 1 (Figures 3a and 5a), VOCs were detected above conservative residential regulatory screening criteria in the area of proposed residential structures, down-gradient from the historical release from Crown Cleaners. In Plan 2, VOCs were not detected above conservative residential regulatory screening criteria in the area of proposed residential structures, down-gradient from the historical release from Crown Cleaners.

8.2 Offsite

Historically, the adjacent properties were primarily developed in the 1970s as residential properties and in the 1990s as commercial properties.

Currently, the subject site is bordered to the north by Finch Avenue followed by Smith Farms, a residential neighborhood, and a commercial center that includes but is not limited to a fitness center, a dry cleaner (Crown Cleaners), and a grocery store. The subject site is bordered to the east by a commercial center that includes but is not limited to salons, restaurants, and credit unions, followed by Brookhurst Street. The subject site is bordered to the south by the Fountain Valley Channel, followed by residential neighborhoods, and to the west by residential neighborhoods.

Crown Cleaners is located approximately 140 feet north of the subject site at the address of 18583 Brookhurst Street and has operated from at least 1990 to present day. The cleaners reportedly ceased utilizing PCE in 2005. Crown Cleaners, is listed in the Geotracker database as a cleanup site. The case was closed on May 29, 2003 by the OCHCA with concurrence from the RWQCB, with VOCs remaining in groundwater above the MCLs. Refer to Section 4.2.4 for a detailed summary of the assessments conducted and closure rationale. A Phase II ESA was conducted at the subject site to assess the potential for vapor encroachment from contaminated groundwater associated with Crown Cleaners (Section 7.0 and 8.1).

Dye Masters, located 18627 Brookhurst Street approximately 150 feet of the subject site, operated from at least 1991 to 2014 and was reported on the historical cleaners list; although, it's not certain that drycleaning was conducted. The results of the Phase II ESA did not indicate that VOCs have migrated onsite from Dye Masters or facilities located to the northeast of the subject site.

8.3 Data Gaps

No significant data gaps were identified by Leighton.

9.0 OPINION

9.1 Onsite

A wheel chair lift was observed in the central portion of the classroom area onsite. Leighton did not have access inside of it, but it does not appear to be hydraulically operated and it is Leighton's opinion that it does not represent a REC.

HRECs were not identified for the subject site. It is Leighton's opinion that based on the results of the Phase II ESA, the subject site is not significantly affected with OCPs or arsenic and that the former agricultural use or potential for pesticide application around buildings does not constitute a REC. The single detection of an OCP (toxaphene at 680 ug/kg) is very limited in horizontal and vertical extent based on the results of the step-out sampling conducted. There are only two detections of toxaphene from 63 sample locations; therefore, there is not enough of a useful data set to conduct a meaningful statistical analysis of the 95 percent upper confidence limit; however, it is Leighton's opinion that the limited presence of toxaphene is expected to have a low potential to adversely affect human health or the environment.

If Plan 1 is utilized at the subject site (Figures 3a and 5a), or any other development plan that includes residential development over the area impacted with VOCs above screening levels, it is Leighton's opinion that a risk assessment be conducted to further evaluate the potential health risks to future occupants.

If Plan 2 is utilized that consists of an open-air park located over the area impacted with VOCs above regulatory screening levels (Figures 3b and 5b), it is Leighton's opinion that the presence of chlorinated solvents in the northeast corner of the subject site that apparently originate from the adjacent Crown Cleaners, would be considered a CREC. Residences would not be located within the areas that are affected with chlorinated solvents above the RSLs, DTSC-SLs, and/or MCLs. Leighton conducted a second round of soil vapor testing south of these impacted areas where there is planned residences, and VOCs were not detected over the laboratory reporting limit. In addition, there has not been a continuing source since at least 2005, the concentrations decrease significantly toward the south and southwest, and the products encountered show that natural attenuation has been occurring (PCE was not detected in groundwater; however the breakdown products TCE and cis-1,2-DCE were detected).

It is Leighton's opinion that the extent of contamination has been identified onsite and that further assessment or onsite remediation is not warranted. It is also Leighton's opinion that a risk assessment should be conducted and that mitigation, such as vapor barriers, may be recommended, if Plan 1 or similar is selected. It is Leighton's opinion that mitigation would not be warranted if Plan 2 is selected, based on the concentrations of VOCs detected below regulatory screening levels in areas of planned residential development. Brookfield may choose to submit this report and the risk assessment report (if prepared), and the final development plans and mitigation plans (if any) to a regulatory agency for oversight.

9.2 Offsite

It is Leighton's opinion that offsite facilities were not identified as a potential to adversely affect the subject site, with the exception of Crown Cleaners, discussed above in Section 9.1.

It is Leighton's opinion that no CRECs or HRECs were identified for the offsite properties.

10.0 CONCLUSIONS

Leighton has performed a Phase I and Phase II ESA in conformance with the scope and limitations of ASTM E1527-13 of the property located at 9790 Finch Avenue in the city of Fountain Valley, Orange County, California. Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report. This assessment has revealed no evidence of RECs, HRECs, or CRECs directly associated with the subject site. This assessment has revealed one offsite REC that has affected the subject site:

- The presence of chlorinated solvents in soil gas and groundwater samples in the northeast corner of the site appear to originate from the adjacent Crown Cleaners and this is considered a REC if residential development is planned for the affected area (Figures 3a and 5a, Plan 1). This would be considered a CREC if a park is constructed over this area (Figures 3b and 5b, Plan 2).

Based on the above conclusions, Leighton recommends the following based on the proposed residential development of Plan 1 (or similar) and Plan 2:

- Plan 1 – Conduct a risk assessment to evaluate the potential risk to future occupants from vapor intrusion of VOCs. Based on the results of the risk assessment, regulatory oversight and vapor mitigation of select residences may be recommended.

- Plan 2 – Additional assessment or mitigation is not considered warranted if an open-air park is constructed over the area where the limited area of soil vapor and groundwater has been identified to contain VOCs over regulatory screening criteria.

- Brookfield may choose to have regulatory involvement regardless of the proposed development plans and park location in order to obtain oversight and approval of final development plans.

In general, observations should be made during future property development for areas of possible contamination such as, but not limited to, the presence of underground facilities, railroads, buried debris, waste drums, and tanks, stained soil or odorous soils. Should such materials be encountered, further investigation and analysis may be necessary at that time.

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11.0 DEVIATIONS

Leighton did not deviate from or alter the scope of work, as defined in Section 1.3 of this report. Significant data gaps were not identified that affect the ability of Leighton to identify RECs at the subject site.

12.0 ADDITIONAL SERVICES

Leighton did not perform work outside the scope of work as defined in Section 1.3 of this report.

13.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

13.1 Corporate

Leighton is a California corporation, providing geotechnical and environmental consulting services throughout California. We are solely a consulting firm without interests in real property other than our office locations in Southern California. We provide professional environmental consulting services including application of science and engineering to environmental compliance, hazardous materials/waste assessment and cleanup, and management of hazardous, solid and industrial waste. Phase I Environmental Site Assessments are a part of this practice area and have been conducted by us.

13.2 Individual

The qualifications of the Associate Geologist and the other Leighton environmental professionals involved in this Phase I and limited Phase II ESA meet the Leighton corporate requirements for performing Phase I and Limited Phase II ESAs as specified by ASTM E1527-13. In addition, Ms. Meredith Church is a Professional Geologist (PG).

13.3 Environmental Professional Statement

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional, as defined by §312.10 of 40 CFR Part 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. I have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Meredith Church

Meredith Church, PG
Associate Geologist

FIGURES



Project: 12418.001	Eng/Geol: MC
Scale:1 " = 2,000 '	Date: July 2019

Base Map: ESRI ArcGIS Online 2019
Thematic Information: Leighton
Author: Leighton Geomatics (btran)

SITE LOCATION MAP

9790 Finch Avenue,
Fountain Valley, California

Figure 1

Leighton

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LEGEND

Approximate Subject Site Boundary

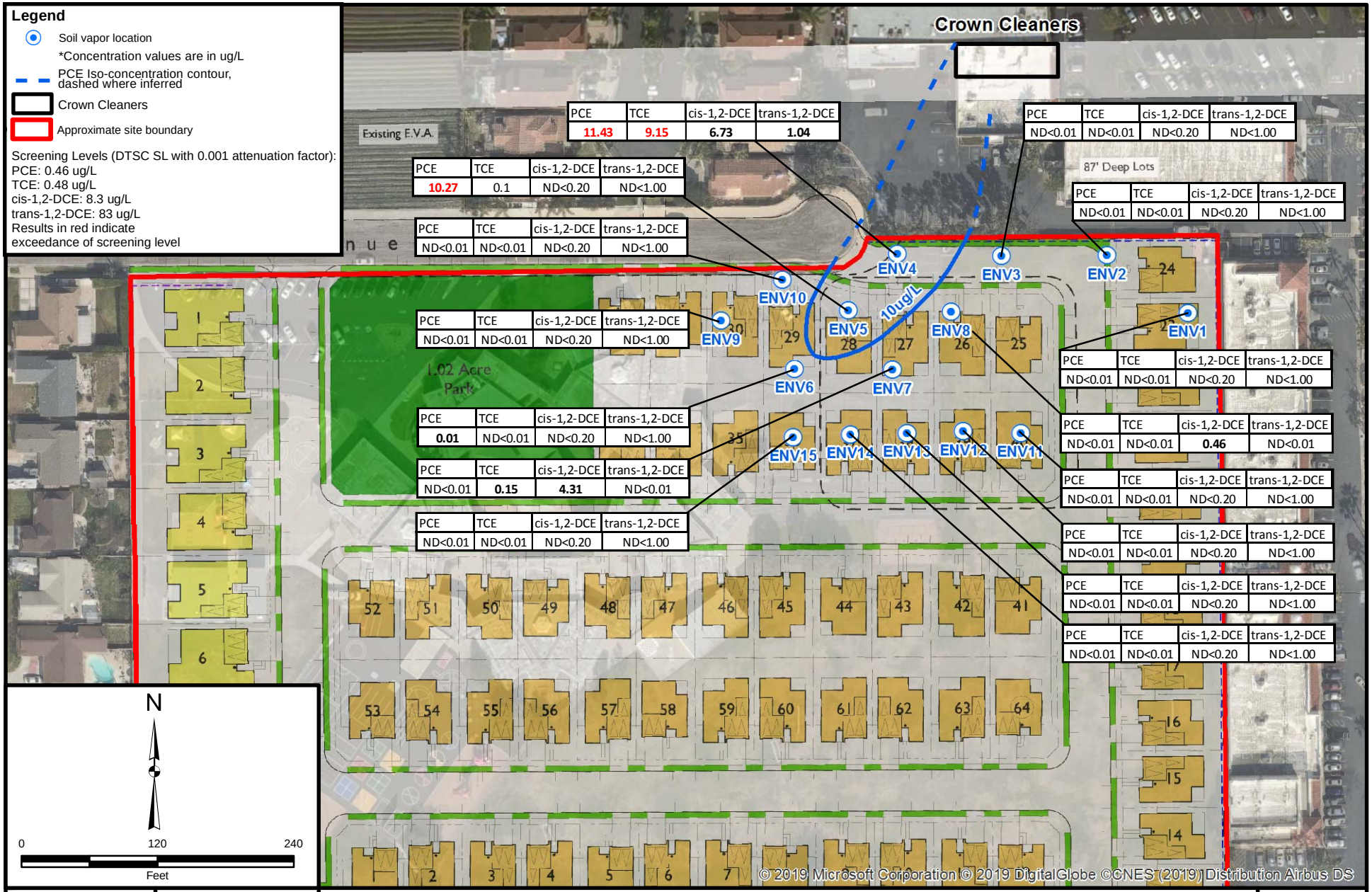
#15 Photo ID and Direction

SITE PLAN

9790 Finch Avenue
Fountain Valley, California

Project No.	12418.001
Scale	Not to Scale
Engr./Geol.	MDC
Drafted By	SAG
Date	July 2019

Figure 2



Project: 12418.001	Eng/Geol: MDC
Scale: 1 " = 120 '	Date: August 2019

Base Map: ESRI ArcGIS Online 2019
Thematic Information: Leighton
Author: Leighton Geomatics (btran)

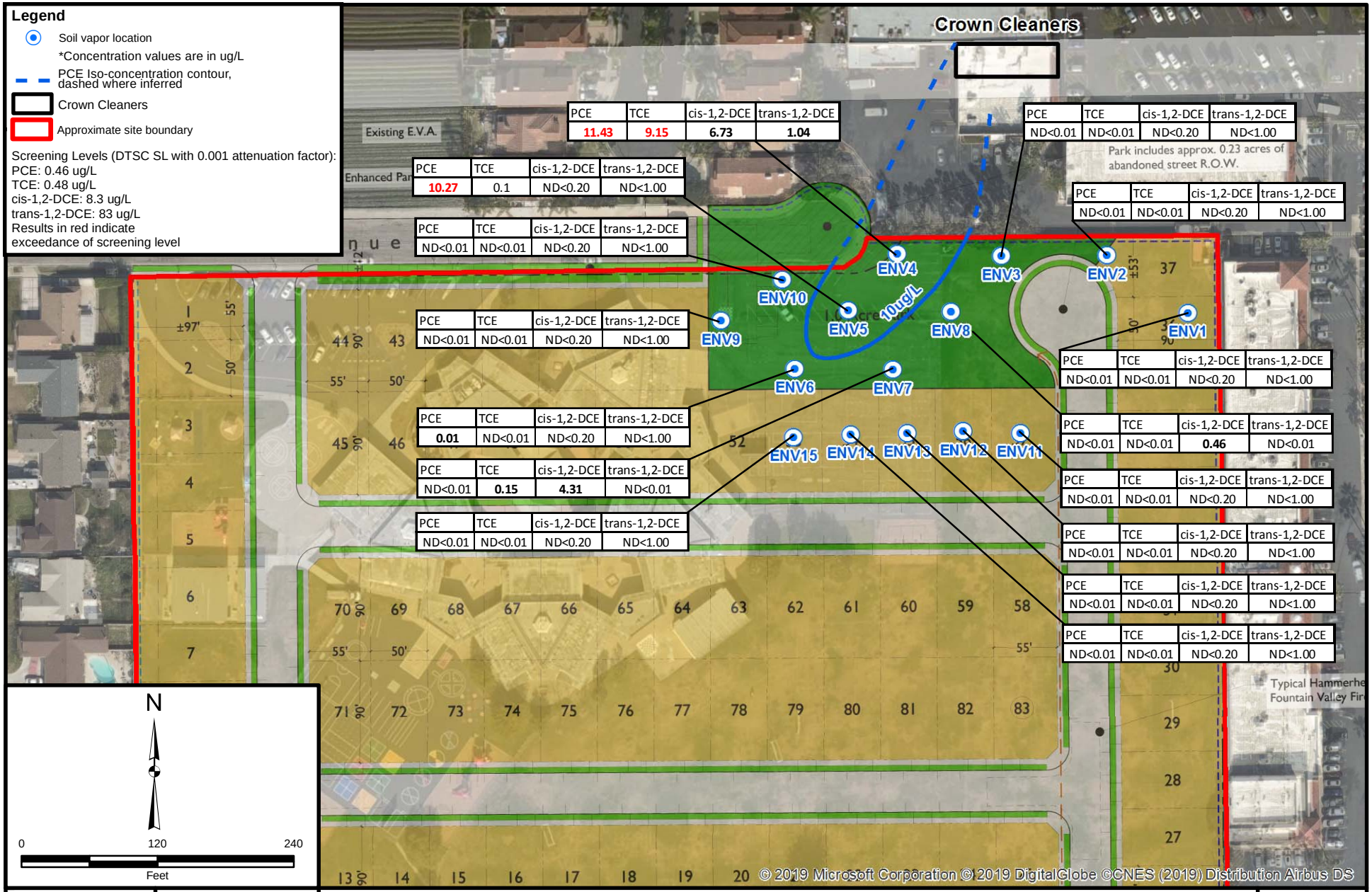
SOIL VAPOR LOCATION AND DATA MAP - PLAN 1

Former Fred Moiola School Project
9790 Finch Avenue
Fountain Valley, California

Figure 3a

Leighton

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Project: 12418.001	Eng/Geol: MDC
Scale:1 " = 120 '	Date: August 2019

Base Map: ESRI ArcGIS Online 2019
Thematic Information: Leighton
Author: Leighton Geomatics (btran)

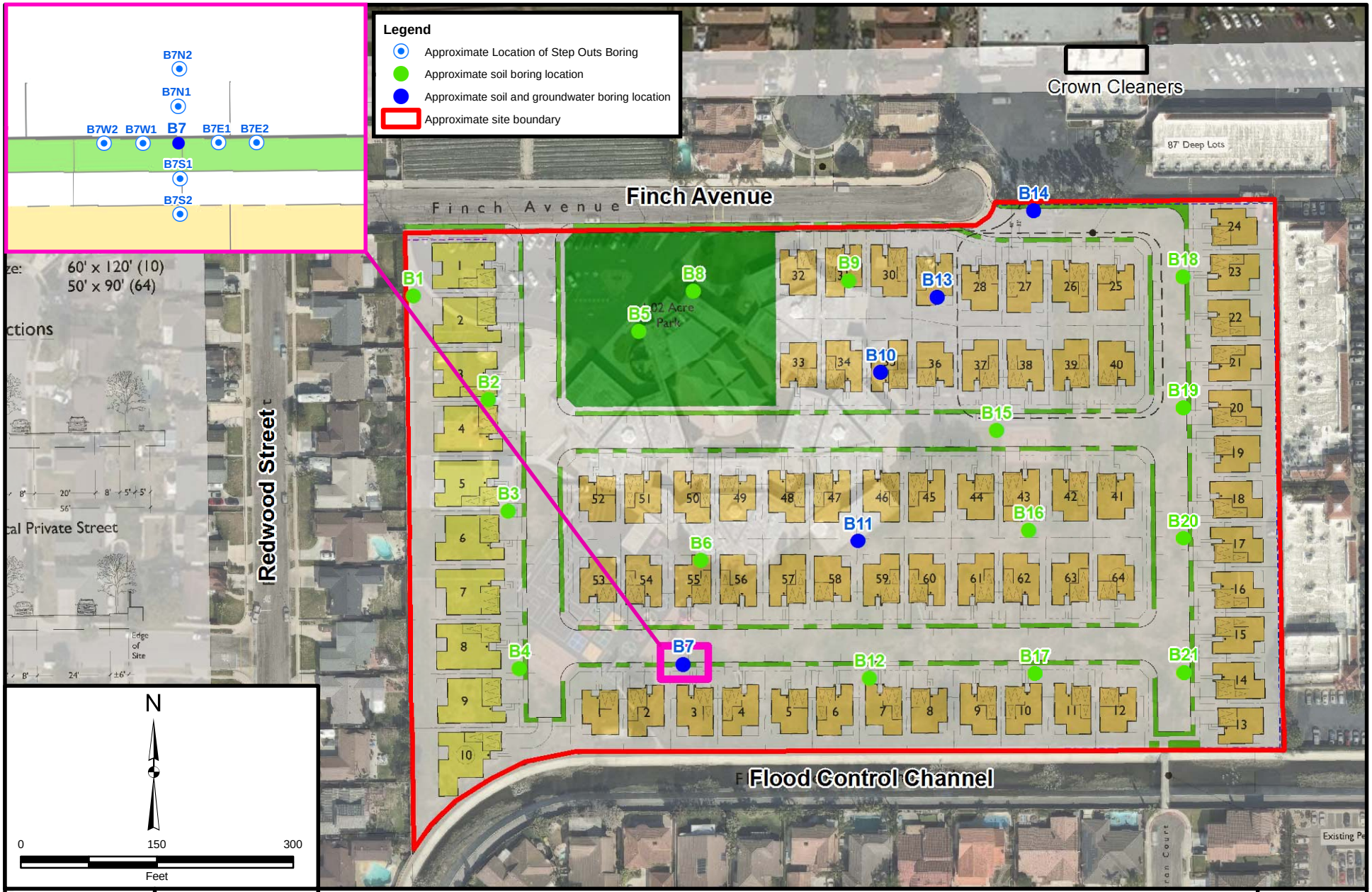
SOIL VAPOR LOCATION AND DATA MAP - PLAN 2

Former Fred Moiola School Project
9790 Finch Avenue
Fountain Valley, California

Figure 3b

Leighton

Map Saved as V:\Drafting\12418\001\Maps\12418-001_F03b_SVLM_2019-08-28.mxd on 8/29/2019 8:48:11 AM



Project: 12418.001	Eng/Geol: MDC
Scale: 1 " = 150 '	Date: August 2019

Base Map: ESRI ArcGIS Online 2019
Thematic Information: Leighton
Author: Leighton Geomatics (btran)

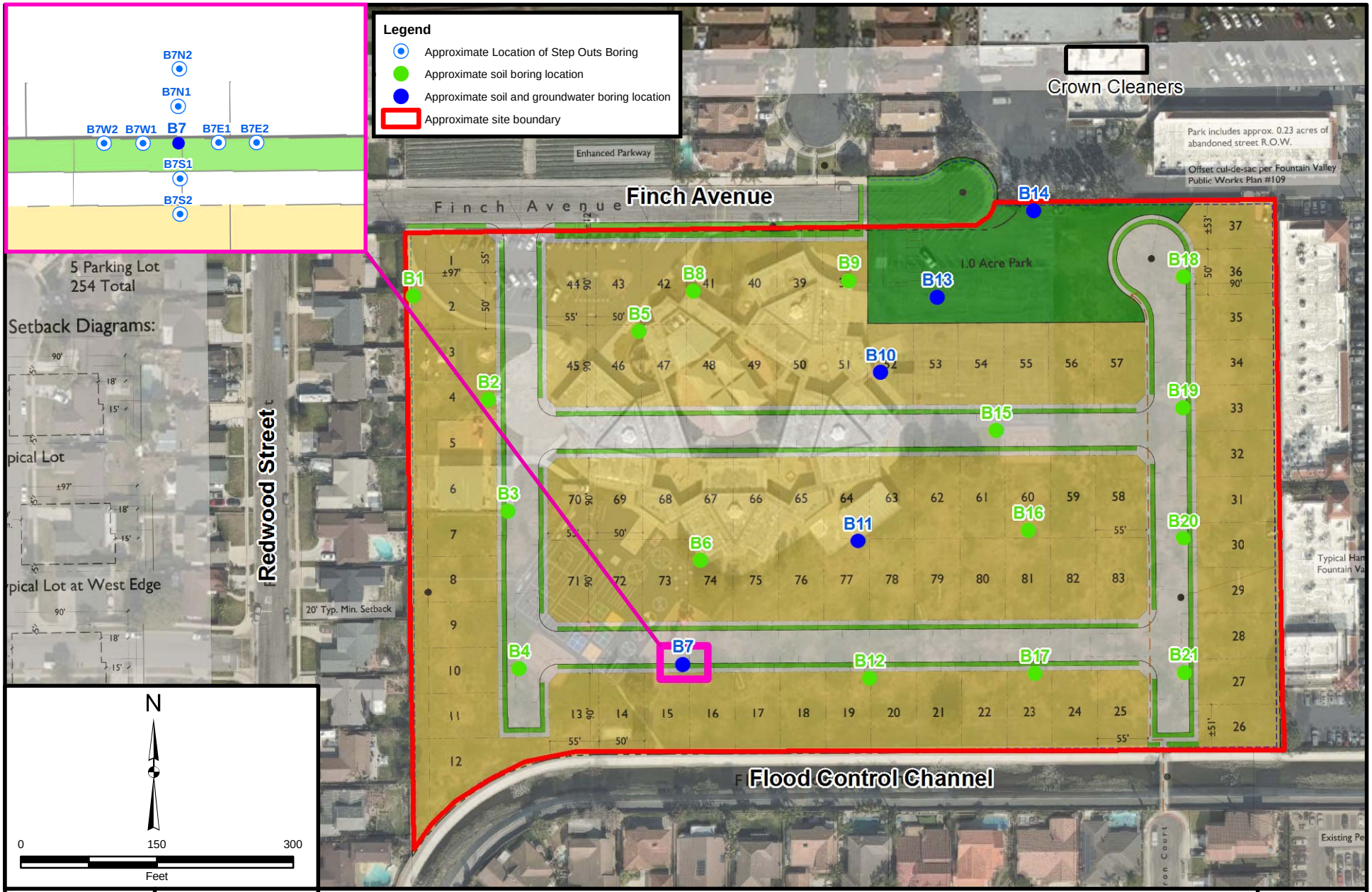
BORING LOCATION MAP - PLAN **1**

Former Fred Moiola School Project
9790 Finch Avenue
Fountain Valley, California

Figure 4a

Leighton

Map Saved as V:\Drafting\12418\001\Maps\12418-001_F04b_BLM_2019-08-26.mxd on 8/29/2019 10:28:19 AM



Project: 12418.001	Eng/Geol: MDC
Scale: 1 " = 150 '	Date: August 2019
Base Map: ESRI ArcGIS Online 2019 Thematic Information: Leighton Author: Leighton Geomatics (btran)	

BORING LOCATION MAP - PLAN **2**

Former Fred Moiola School Project
9790 Finch Avenue
Fountain Valley, California

Figure 4b

Leighton

Map Saved as V:\Drafting\12418\001\Maps\12418-001_F04a_BLM_2019-08-26.mxd on 8/29/2019 10:31:54 AM



Project: 12418.001	Eng/Geol: MDC
Scale:1 " = 150 '	Date: August 2019

Base Map: ESRI ArcGIS Online 2019
Thematic Information: Leighton
Author: Leighton Geomatics (btran)

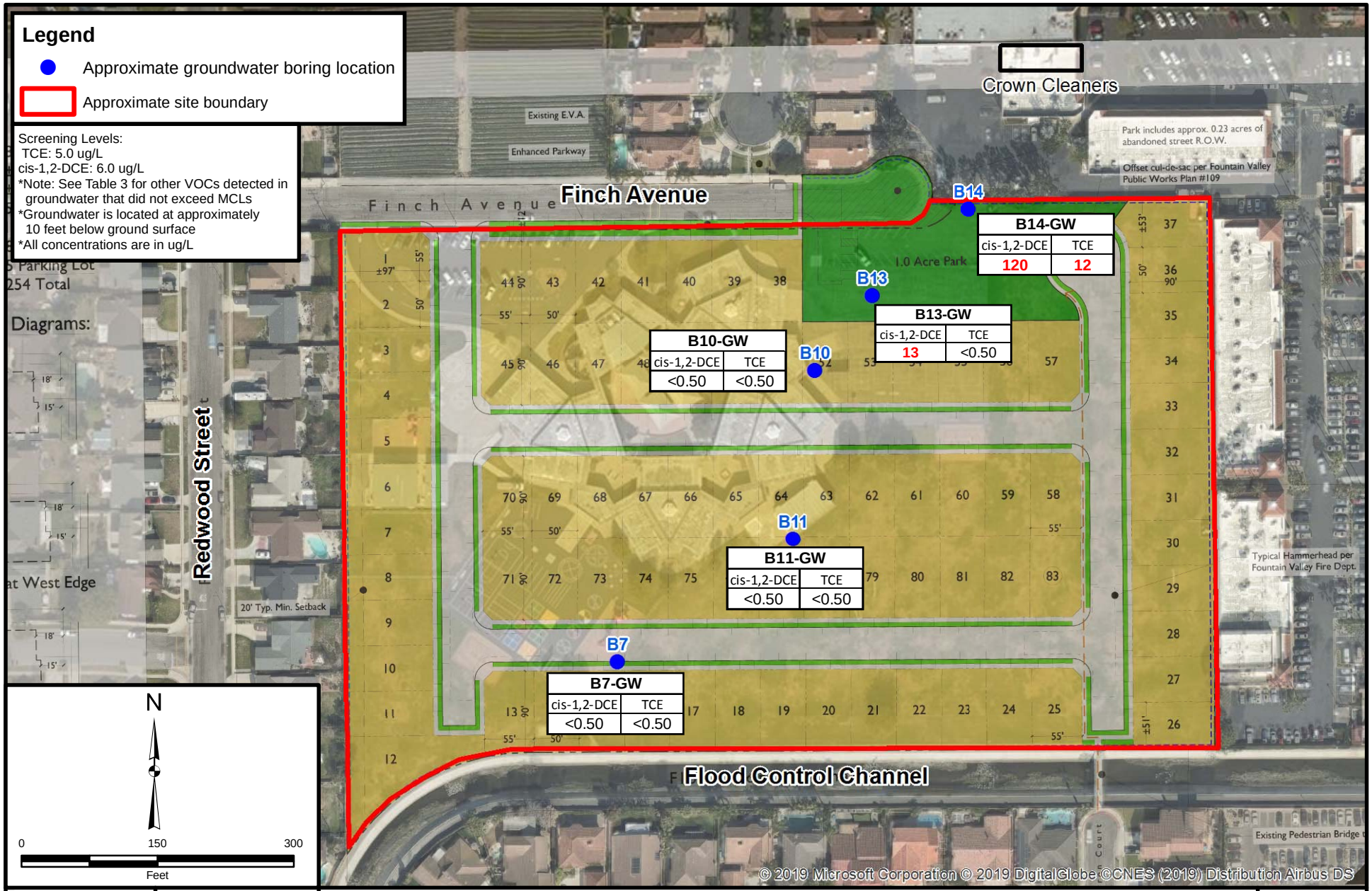
GROUNDWATER DATA MAP-CHLORINATED SOLVENTS - PLAN 1

Former Fred Moiola School Project
9790 Finch Avenue
Fountain Valley, California

Figure 5a

Leighton

Map Saved as V:\Drafting\12418\001\Maps\12418-001_F05a_GWM_2019-08-28.mxd on 8/28/2019 3:04:16 PM



Project: 12418.001	Eng/Geol: MDC
Scale: 1 " = 150 '	Date: August 2019

Base Map: ESRI ArcGIS Online 2019
Thematic Information: Leighton
Author: Leighton Geomatics (btran)

GROUNDWATER DATA MAP-CHLORINATED SOLVENTS - PLAN 2

Former Fred Moiola School Project
9790 Finch Avenue
Fountain Valley, California

Figure 5b

Leighton

Map Saved as V:\Drafting\12418\001\Maps\12418-001_F05b_GWM_2019-08-28.mxd on 8/28/2019 3:03:20 PM

TABLES



Leighton

TABLE 1

Soil Vapor Analytical Results for VOCs

9790 Finch Avenue, Fountain Valley, California

Sample ID	Sample Depth (feet)	Date Sampled	Volatile Organic Compounds (VOCs) EPA Method 8260B, micrograms per liter (µg/L)					
			PCE	TCE	Cis-1,2-DCE	Trans-1,2-DCE	Chloroform	Other VOCs Analyzed
USEPA RSL - Residential Air with 0.03 AF			**0.37**	**0.02**	**N/A**	**N/A**	**0.04**	**Various**
DSTC-SL - Residential Air with 0.001 AF			**0.46**	**0.48***	**8.3**	**83**	**0.12**	**Various**
DSTC-SL - Residential Air with 0.03 AF**			**0.02**	**0.02***	0.28	**2.77**	**0.004**	**Various**
ENV-1	5.0	7/11/2019	<0.01	<0.01	<0.20	<1.0	<0.004	ND
ENV-2	5.0	7/11/2019	<0.01	<0.01	<0.20	<1.0	<0.004	ND
ENV-3	5.0	7/11/2019	<0.01	<0.01	<0.20	<1.0	<0.004	ND
ENV-4	5.0	7/11/2019	**11.43**	**9.5**	**6.73**	**1.04**	**0.03**	ND
ENV-5	5.0	7/11/2019	**10.27**	**0.1**	<0.20	<1.0	<0.004	ND
ENV-6	5.0	7/11/2019	**0.01**	<0.01	<0.20	<1.0	<0.004	ND
ENV-7	5.0	7/11/2019	<0.01	**0.15**	**4.31**	<1.0	<0.004	ND
ENV-8	5.0	7/11/2019	<0.01	<0.01	**0.46**	<1.0	<0.004	ND
ENV-9	5.0	7/11/2019	<0.01	<0.01	<0.20	<1.0	<0.004	ND
ENV-9	5.0	7/11/2019	<0.01	<0.01	<0.20	<1.0	<0.004	ND
ENV-10 Dup	5.0	7/11/2019	<0.01	<0.01	<0.20	<1.0	<0.004	ND
ENV-11	5.0	8/22/2019	<0.01	<0.01	<0.20	<1.0	<0.001	ND
ENV-11 Dup	5.0	8/22/2019	<0.01	<0.01	<0.20	<1.0	<0.001	ND
ENV-12	5.0	8/22/2019	<0.01	<0.01	<0.20	<1.0	<0.001	ND
ENV-13	5.0	8/22/2019	<0.01	<0.01	<0.20	<1.0	<0.001	ND
ENV-14	5.0	8/22/2019	<0.01	<0.01	<0.20	<1.0	<0.001	ND
ENV-15	5.0	8/22/2019	<0.01	<0.01	<0.20	<1.0	<0.001	ND

NOTES

PCE = Tetrrachloroethylene; TCE = Trichloroethylene; Cis-1,2-dichloroethene = Cis-1,2-DCE; Trans-1,2-dichloroethene =Trans-1,2-DCE

RSL = USEPA Regional Screening Levels (RSLs) (April 2019) AF = Attenuation Factor

DTSC-SL Department of Toxic Substances Control (DTSC) Screening Level (SL), HERO Note Number 3 (April 2019)

<1.0 = Not Detected Above Laboratory Reporting Limits

Highlighted values exceed one or more screening level (concentrations that exceed DTSC-SL & 0.001 AF are highlighted on Figure 3a and 3b)

* There is not a DTSC-SL for TCE, this is the EPA RSL for TCE with an AF applied of 0.001 and 0.03, as indicated

** It is noted that threre is not a guidance document at this time recommending a 0.03 attenuation factor for the DTSC-SLs

TABLE 2

Soil Analytical Results for Arsenic

9790 Finch Avenue, Fountain Valley, California

Sample ID	Sample Depth (feet)	Date Sampled	Title 22 Metals EPA Method 6010B (mg/kg)
			Arsenic
		USEPA RSL - Residential Soil	0.68
		DSTC-SL - Residential Soil	0.11
		SoCal Background	12
B1-1.0	1.0	7/16/2019	1.8
B1-2.5	2.5	7/16/2019	2.2
B2-1.0	1.0	7/16/2019	3.3
B2-2.5	2.5	7/16/2019	3.3
B3-1.0	1.0	7/16/2019	2.8
B3-2.5	2.5	7/16/2019	2.3
B4-1.0	1.0	7/16/2019	3.0
B4-2.5	2.5	7/16/2019	1.7
B5-1.0	1.0	7/16/2019	3.0
B5-2.5	2.5	7/16/2019	2.8
B5-2.5D	2.5	7/16/2019	2.2
B6-1.0	1.0	7/16/2019	2.8
B6-2.5	2.5	7/16/2019	2.5
B7-1.0	1.0	7/16/2019	3.6
B7-2.5	2.5	7/16/2019	2.7
B8-1.0	1.0	7/16/2019	3.1
B8-2.5	2.5	7/16/2019	2.6
B9-1.0	1.0	7/16/2019	3.2
B9-2.5	2.5	7/16/2019	1.9
B10-1.0	1.0	7/16/2019	2.2
B10-1.0D	1.0	7/16/2019	2.1
B10-2.5	2.5	7/16/2019	2.2
B11-1.0	1.0	7/16/2019	2.9
B11-2.5	2.5	7/16/2019	3.4
B12-1.0	1.0	7/16/2019	2.6
B12-1.0D	1.0	7/16/2019	2.9
B12-2.5	2.5	7/16/2019	2.7
B13-1.0	1.0	7/16/2019	2.8
B13-2.5	2.5	7/16/2019	2.6
B14-1.0	1.0	7/16/2019	3.0
B14-2.5	2.5	7/16/2019	2.8
B14-2.5D	2.5	7/16/2019	3.3
B15-1.0	1.0	7/16/2019	2.2
B15-2.5	2.5	7/16/2019	3.3
B16-1.0	1.0	7/16/2019	3.2

TABLE 2

Soil Analytical Results for Arsenic

9790 Finch Avenue, Fountain Valley, California

Sample ID	Sample Depth (feet)	Date Sampled	Title 22 Metals EPA Method 6010B (mg/kg)
			Arsenic
		USEPA RSL - Residential Soil	0.68
		DSTC-SL - Residential Soil	0.11
		SoCal Background	12
B16-2.5	2.5	7/16/2019	3.0
B17-1.0	1.0	7/16/2019	2.9
B17-2.5	2.5	7/16/2019	3.0
B18-1.0	1.0	7/16/2019	3.0
B18-2.5	2.5	7/16/2019	2.5
B19-1.0	1.0	7/16/2019	2.1
B19-2.5	2.5	7/16/2019	4.8
B20-1.0	1.0	7/16/2019	2.3
B20-2.5	2.5	7/16/2019	5.9
B21-1.0	1.0	7/16/2019	2.0
B21-2.5	2.5	7/16/2019	1.4

Notes:

RSL = USEPA Regional Screening Levels (RSLs) (April 2019)

DTSC-SL Department of Toxic Substances Control (DTSC) Screening Level (SL), Office of Human and Ecological Risk (HERO) Note Number 3 (April 2019)

SoCal Background = DTSC Determination of a Southern California Regional Background Arsenic Concentration in Soil (DTSC, 2008)

mg/kg = Milligrams per Kilogram

TABLE 3
Soil Analytical Results for OCPs and VOCs
9790 Finch Avenue, Fountain Valley, California

Sample ID	Sample Depth (feet)	Date Sampled	Organochlorine Pesticides (OCPs) EPA Method 8081, (ug/kg)					Volatile Organic Compounds (VOCs) EPA Method 8260B, (µg/kg)						
			4,4'-DDD	4,4'-DDE	Dieldrin	Toxaphene	4,4'-DDT	Benzene	Carbon Disulfide	Ethylbenzene	Toluene	cis-1,2-Dichloroethene	Trichloroethene	Xylenes (total)
USEPA RSL - Residential Soil			**1,900**	**2,000**	**34**	**490**	**1,900**	**1,200**	**770,000**	**5,800**	**4,900,000**	**160,000**	**940**	**580,000**
DSTC-SL - Residential Soil			**--**	**--**	--	**450**	**--**	**330**	**--**	--	**1,100,000**	**18,000**	**--**	--
B1-1.0	1.0	7/16/2019	<2.0	**390**	**4.4 [2C]**	**190**	**50 [2C]**	--	--	--	--	--	--	--
B1-2.5	2.5	7/16/2019	<2.0	**29**	<2.0	<50	**2.5 [2C]**	--	--	--	--	--	--	--
B1-5.0	5.0	7/16/2019	<2.0	**2.1**	<2.0	<50	<2.0	--	--	--	--	--	--	--
B2-1.0	1.0	7/16/2019	<10	**110**	<10	<250	**13**	--	--	--	--	--	--	--
B2-2.5	2.5	7/16/2019	<2.0	**18**	<2.0	<50	**2.1 [2C]**	--	--	--	--	--	--	--
B2-5.0	5.0	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B3-1.0	1.0	7/16/2019	**7.3**	**170**	<2.0	<50	**14 [2C]**	--	--	--	--	--	--	--
B3-2.5	2.5	7/16/2019	**6.3**	**160**	**2.6**	<50	**13**	--	--	--	--	--	--	--
B3-5.0	5.0	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B3-5.0D	5.0	7/16/2019	**2.3**	**23**	<2.0	<50	**2.4**	--	--	--	--	--	--	--
B4-1.0	1.0	7/16/2019	**2.0**	**310**	<2.0	<50	**60**	--	--	--	--	--	--	--
B4-2.5	2.5	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B4-5.0	5.0	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B5-1.0	1.0	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B5-2.5	2.5	7/16/2019	<2.0	**37**	<2.0	<50	**5.4**	--	--	--	--	--	--	--
B5-2.5D	2.5	7/16/2019	<2.0	**39**	<2.0	<50	**5.9 [2C]**	--	--	--	--	--	--	--
B5-5.0	5.0	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B6-1.0	1.0	7/16/2019	<2.0	**2.6**	<2.0	<50	**2.3**	--	--	--	--	--	--	--
B6-2.5	2.5	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B6-5.0	5.0	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B7-1.0	1.0	7/16/2019	<2.0	**640**	**2.9**	<50	**65**	--	--	--	--	--	--	--
B7-2.5	2.5	7/16/2019	<2.0	**570**	**12 [2C]**	**680**	**270**	--	--	--	--	--	--	--
B7-5.0	5.0	7/16/2019	<2.0	**6.2**	<2.0	<50	<2.0	--	--	--	--	--	--	--
B7N1-1.0	1.0	8/13/2019	**24**	**710**	**4.6**	<50	**45**	--	--	--	--	--	--	--
B7N1-2.5	2.5	8/13/2019	**280**	**1,400**	**14**	<50	**710**	--	--	--	--	--	--	--
B7N1-5.0	5.0	8/13/2019	<2.0	**12**	<2.0	<50	<2.0	--	--	--	--	--	--	--
B7N2-1.0	1.0	8/13/2019	**8.9**	**330**	**2.4**	<50	**12**	--	--	--	--	--	--	--
B7N2-2.5	2.5	8/13/2019	**11**	**330**	**3.5**	<50	**11**	--	--	--	--	--	--	--
B7N2-2.5 DUP	2.5	8/13/2019	**4.3**	**120**	**2.3**	<50	**5.5**	--	--	--	--	--	--	--
B7N2-5.0	5.0	8/13/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B7S1-1.0	1.0	8/13/2019	**3.5**	**140**	<2.0	<50	**2.4**	--	--	--	--	--	--	--
B7S1-2.5	2.5	8/13/2019	**18**	**250**	**6.2**	<50	**18**	--	--	--	--	--	--	--
B7S1-5.0	5.0	8/13/2019	<2.0	**25**	<2.0	<50	**9.4**	--	--	--	--	--	--	--
B7S21.0	1.0	8/13/2019	**2.3**	**21**	<2.0	<50	**4.0**	--	--	--	--	--	--	--
B7S2-2.5	2.5	8/13/2019	<2.0	**460**	**11**	<50	**150**	--	--	--	--	--	--	--
B7S2-5.0	5.0	8/13/2019	<2.0	**32**	<2.0	<50	**15**	--	--	--	--	--	--	--
B7E1-1.0	1.0	8/13/2019	<2.0	**1,200**	**10**	<50	**160**	--	--	--	--	--	--	--
B7E1-2.5	2.5	8/13/2019	<2.0	**390**	**13**	<50	**110**	--	--	--	--	--	--	--
B7E1-5.0	5.0	8/13/2019	<2.0	**2.8**	<2.0	<50	<2.0	--	--	--	--	--	--	--
B7E2-1.0	1.0	8/13/2019	**11**	**1,100**	**11**	<50	**120**	--	--	--	--	--	--	--

TABLE 3
Soil Analytical Results for OCPs and VOCs
9790 Finch Avenue, Fountain Valley, California

Sample ID	Sample Depth (feet)	Date Sampled	Organochlorine Pesticides (OCPs) EPA Method 8081, (ug/kg)					Volatile Organic Compounds (VOCs) EPA Method 8260B, (µg/kg)						
			4,4'-DDD	4,4'-DDE	Dieldrin	Toxaphene	4,4'-DDT	Benzene	Carbon Disulfide	Ethylbenzene	Toluene	cis-1,2-Dichloroethene	Trichloroethene	Xylenes (total)
USEPA RSL - Residential Soil			**1,900**	**2,000**	**34**	**490**	**1,900**	**1,200**	**770,000**	**5,800**	**4,900,000**	**160,000**	**940**	**580,000**
DSTC-SL - Residential Soil			**--**	**--**	--	**450**	**--**	**330**	**--**	--	**1,100,000**	**18,000**	**--**	--
B7E2-1.0 DUP	1.0	8/13/2019	**19**	**1,000**	**12**	<50	**110**	--	--	--	--	--	--	--
B7E2-2.5	2.5	8/13/2019	**30**	**630**	**13**	<50	**190**	--	--	--	--	--	--	--
B7NE2-5.0	5.0	8/13/2019	<2.0	**11**	<2.0	<50	**2.9**	--	--	--	--	--	--	--
B7W1-1.0	1.0	8/13/2019	**16**	**490**	**9.5**	<50	**94**	--	--	--	--	--	--	--
B7W1-2.5	2.5	8/13/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B7W1-5.0	5.0	8/13/2019	<2.0	**5.7**	<2.0	<50	**2.1**	--	--	--	--	--	--	--
B7W2-1.0	1.0	8/13/2019	**11**	**390**	**5.9**	<50	**5.9**	--	--	--	--	--	--	--
B7W2-2.5	2.5	8/13/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B7W2-5.0	5.0	8/13/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B8-1.0	1.0	7/16/2019	<2.0	**7.8**	<2.0	<50	<2.0	--	--	--	--	--	--	--
B8-2.5	2.5	7/16/2019	<2.0	**2.1**	<2.0	<50	<2.0	--	--	--	--	--	--	--
B8-5.0	5.0	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B9-1.0	1.0	7/16/2019	<2.0	**5.4**	<2.0	<50	<2.0	--	--	--	--	--	--	--
B9-2.5	2.5	7/16/2019	<2.0	**41**	<2.0	<50	**6.3**	--	--	--	--	--	--	--
B9-5.0	5.0	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B10-1.0	1.0	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B10-1.0D	1.0	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B10-2.5	2.5	7/16/2019	<2.0	**2.3**	<2.0	<50	<2.0	--	--	--	--	--	--	--
B10-5.0	5.0	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	**82**	**11**	**5.7**	**47**	<4.7	<4.7	<4.7
B10-10	10	7/16/2019	--	--	--	--	--	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3
B11-1.0	1.0	7/16/2019	<2.0	**140**	<2.0	<50	**11 [2C]**	--	--	--	--	--	--	--
B11-2.5	2.5	7/16/2019	**24**	**510**	**5.4**	<50	**52 [2C]**	--	--	--	--	--	--	--
B11-5.0	5.0	7/16/2019	<2.0	**16**	<2.0	<50	<2.0	--	--	--	--	--	--	--
B12-1.0	1.0	7/16/2019	**2.6**	**830**	**4.5 [2C]**	<50	**47**	--	--	--	--	--	--	--
B12-1.0D	1.0	7/16/2019	**2.4**	**240**	**2.4 [2C]**	<50	**17**	--	--	--	--	--	--	--
B12-2.5	2.5	7/16/2019	<2.0	**31**	<2.0	<50	**6.6**	--	--	--	--	--	--	--
B12-5.0	5.0	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B13-1.0	1.0	7/16/2019	**2.3 [2C]**	**38**	<2.0	<50	**2.4 [2C]**	**6.3**	<4.0	<4.0	**4.3**	<4.0	<4.0	<4.0
B13-2.5	2.5	7/16/2019	<2.0	46	<2.0	<50	<2.0	**37**	**5.0**	<4.8	**21**	<4.8	<4.8	<4.8
B13-5.0	5.0	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	**57**	**6.1**	<4.4	**32**	<4.4	<4.4	<4.4
B13-10	10	7/16/2019	<2.0	<2.0	<2.0	<50	**<2.0**	**92**	<4.8	**7.7**	**56**	<4.8	<4.8	**10**
B14-1.0	1.0	7/16/2019	<2.0	**42**	<2.0	<50	**3.1**	**20**	<4.8	<4.8	**11**	<4.8	<4.8	<4.8
B14-2.5	2.5	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	**65**	**6.1**	**6.4**	**47**	<5.7	<5.7	<5.7
B14-2.5D	2.5	7/16/2019	<2.0	**6.7**	<2.0	<50	<2.0	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
B14-5.0	5.0	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
B14-10	10	7/16/2019	--	--	--	--	--	<3.7	<3.7	<3.7	<3.7	**52**	**7.1**	<3.7
B15-1.0	1.0	7/16/2019	<2.0	**20**	<2.0	<50	**5.0**	--	--	--	--	--	--	--
B15-2.5	2.5	7/16/2019	<2.0	**6.4**	<2.0	<50	**2.7**	--	--	--	--	--	--	--
B15-5.0	5.0	7/16/2019	<2.0	**3.1**	<2.0	<50	<2.0	--	--	--	--	--	--	--
B16-1.0	1.0	7/16/2019	<2.0	**35**	<2.0	<50	**4.5**	--	--	--	--	--	--	--

TABLE 3
Soil Analytical Results for OCPs and VOCs
9790 Finch Avenue, Fountain Valley, California

Sample ID	Sample Depth (feet)	Date Sampled	Organochlorine Pesticides (OCPs) EPA Method 8081, (ug/kg)					Volatile Organic Compounds (VOCs) EPA Method 8260B, (µg/kg)						
			4,4'-DDD	4,4'-DDE	Dieldrin	Toxaphene	4,4'-DDT	Benzene	Carbon Disulfide	Ethylbenzene	Toluene	cis-1,2-Dichloroethene	Trichloroethene	Xylenes (total)
USEPA RSL - Residential Soil			**1,900**	**2,000**	**34**	**490**	**1,900**	**1,200**	**770,000**	**5,800**	**4,900,000**	**160,000**	**940**	**580,000**
DSTC-SL - Residential Soil			**--**	**--**	--	**450**	**--**	**330**	**--**	--	**1,100,000**	**18,000**	**--**	--
B16-2.5	2.5	7/16/2019	<2.0	**2.4**	<2.0	<50	<2.0	--	--	--	--	--	--	--
B16-5.0	5.0	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B17-1.0	1.0	7/16/2019	**2.8 [2C]**	**180**	<2.0	<50	**43**	--	--	--	--	--	--	--
B17-2.5	2.5	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B17-5.0	5.0	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B18-1.0	1.0	7/16/2019	**3.0**	**120**	<2.0	<50	**29**	--	--	--	--	--	--	--
B18-2.5	2.5	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B18-5.0	5.0	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B19-1.0	1.0	7/16/2019	<2.0	**64**	<2.0	<50	<2.0	--	--	--	--	--	--	--
B19-2.5	2.5	7/16/2019	<2.0	**4.4**	<2.0	<50	<2.0	--	--	--	--	--	--	--
B19-5.0	5.0	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B19-5.0D	5.0	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--
B20-1.0	1.0	7/16/2019	**3.3**	**110**	<2.0	<50	**20**	--	--	--	--	--	--	--
B20-2.5	2.5	7/16/2019	<2.0	**19 [2C]**	<2.0	<50	**3.0**	--	--	--	--	--	--	--
B20-5.0	5.0	7/16/2019	<2.0	**2.2 [2C]**	<2.0	<50	<2.0	--	--	--	--	--	--	--
B21-1.0	1.0	7/16/2019	**2.5**	**100**	<2.0	<50	**6.4**	--	--	--	--	--	--	--
B21-2.5	2.5	7/16/2019	<2.0	**2.6**	<2.0	<50	<2.0	--	--	--	--	--	--	--
B21-5.0	5	7/16/2019	<2.0	<2.0	<2.0	<50	<2.0	--	--	--	--	--	--	--

Notes:

RSL = USEPA Regional Screening Levels (RSLs) (April 2019)
DTSC-SL Department of Toxic Substances Control (DTSC) Screening Level (SL), Office of Human and Ecological Risk (HERO) Note Number 3 (April 2019)
µg/kg = Micrograms per Kilogram
-- = Not Analyzed or Not Applicable
<2.0 = Not Detected Above Laboratory Reporting Limits
[2C] = Signifies that analytes result is taken from lab instrument's second column, does not alter QA/QC
Highlighted values exceed one or more screening level

TABLE 4
Groundwater Analytical Results for VOCs
9790 Finch Avenue, Fountain Valley, California

Sample	GW Measure Date	Depth to Water (DTW)	Volatile Organic Compounds (VOCs) EPA Method 8260B, (ug/L)						
			Bromoform	Benzene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Dibromochloromethane	Toluene
		California MCLs	**80**	**1.0**	**6**	**10**	**5**	**80**	**150**
B7-GW	07/16/19	10.00	**16**	<0.50	<0.50	<0.50	<0.50	**6.2**	**0.51**
B10-GW	07/16/19	10.85	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
B11-GW	07/16/19	11.40	**1.6**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
B13-GW	07/16/19	8.80	**16**	**0.77**	**13**	<0.50	<0.50	**5.9**	**0.80**
B13-GWD	07/16/19	8.80	**16**	<0.50	**13**	<0.50	<0.50	**5.5**	<0.50
B14-GW	07/16/19	10.00	<0.50	<0.50	**120**	**5.2**	**12**	<0.50	<0.50

MCL= California Maxiumum Contaminant Levels for Regulated Drinking Water
ug/l= micrograms per liter
<0.50 = Not detected above laboratory reporting limit as shown
Bold concentrations were detected above laboratory reporting limit
Highlighted concentrations exceed regulatory limits for drinking water

APPENDIX A

REFERENCES

APPENDIX A

References

ASTM International, 2013, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527-13, dated November 6, 2013

California Department of Conservation, Division of Oil, Gas, and Geothermal Resources, Online Mapping System, Accessed June 13, 2019

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EDR Radius Map Report with GeoCheck®, June 13, 2019

Morton, D.M, 2004, Preliminary Digital Geological Map of the 30' X 60' Santa Ana Quadrangle, Southern California, version 2.0, Open File Report 99-172, 46 p.

NETR Environmental Lien and AUL Search Report June 15, 2019

State Water Resources Control Board, Geotracker Online Database, Accessed June 13, 2019

APPENDIX B

SITE RECONNAISSANCE PHOTOS

Leighton

Leighton and Associates, Inc.	**PHOTOGRAPHIC RECORD** **June 13, 2019**	
Client Name: Brookfield Los Angeles Builders, Inc.	**Site Location: 9790 Finch Avenue, Fountain Valley, CA**	**Project No.** **12418.001**

Photo No. 1	
View Direction of Photo: Southeast	
Description: View of blacktop and eastern portion of subject site.	

Photo No. 2	
View Direction of Photo: East	
Description: View of blacktop and eastern portion of subject site.	

Leighton and Associates, Inc.	**PHOTOGRAPHIC RECORD** **June 13, 2019**	
Client Name: Brookfield Los Angeles Builders, Inc.	**Site Location: 9790 Finch Avenue, Fountain Valley, CA**	**Project No.** **12418.001**

Photo No. 3	
View Direction of Photo: Southwest	
Description: View of grassy play area on eastern portion of subject site.	

Photo No. 4	
View Direction of Photo: South	
Description: View of grassy play area on eastern portion of subject site.	

Leighton and Associates, Inc.	**PHOTOGRAPHIC RECORD** **June 13, 2019**	
Client Name: Brookfield Los Angeles Builders, Inc.	**Site Location: 9790 Finch Avenue, Fountain Valley, CA**	**Project No.** **12418.001**

Photo No. 5 **View Direction of Photo:** West **Description:** View of grassy play area on southern portion of subject site.	

Photo No. 6 **View Direction of Photo:** Northeast **Description:** View of grassy play area on eastern portion of subject site.	

Leighton and Associates, Inc.	**PHOTOGRAPHIC RECORD** **June 13, 2019**	
Client Name: Brookfield Los Angeles Builders, Inc.	**Site Location: 9790 Finch Avenue, Fountain Valley, CA**	**Project No.** **12418.001**

Photo No. 7	
View Direction of Photo: Northeast	
Description: View of grassy play area and blacktop on the western portion of subject site.	

Photo No. 8	
View Direction of Photo: East	
Description: View of grassy play area and blacktop on western portion of subject site.	

Leighton and Associates, Inc.	**PHOTOGRAPHIC RECORD** **June 13, 2019**	
Client Name: Brookfield Los Angeles Builders, Inc.	**Site Location: 9790 Finch Avenue, Fountain Valley, CA**	**Project No.** **12418.001**

Photo No. 9 **View Direction of Photo:** South **Description:** View of play area and modular buildings in western portion of subject site.	

Photo No. 10 **View Direction of Photo:** Northwest **Description:** View of central portion of classroom area.	

Leighton and Associates, Inc.	**PHOTOGRAPHIC RECORD** **June 13, 2019**	
Client Name: Brookfield Los Angeles Builders, Inc.	**Site Location: 9790 Finch Avenue, Fountain Valley, CA**	**Project No.** **12418.001**

Photo No. 11	
View Direction of Photo: South	
Description: View of central portion of classroom area.	

Photo No. 12	
View Direction of Photo: NA	
Description: View of cleaning supplies and paint in custodial closet.	

Leighton and Associates, Inc.	**PHOTOGRAPHIC RECORD** **June 13, 2019**	
Client Name: Brookfield Los Angeles Builders, Inc.	**Site Location: 9790 Finch Avenue, Fountain Valley, CA**	**Project No.** **12418.001**

Photo No. 13 **View Direction of Photo:** NA **Description:** View of cleaning supplies in custodial closet.	

Photo No. 14 **View Direction of Photo:** NA **Description:** View of wheelchair lift in central portion of classroom area.	

Leighton and Associates, Inc.	**PHOTOGRAPHIC RECORD** **June 13, 2019**	
Client Name: Brookfield Los Angeles Builders, Inc.	**Site Location: 9790 Finch Avenue, Fountain Valley, CA**	**Project No.** **12418.001**

Photo No. 15 **View Direction of Photo:** South **Description:** View of storm drain near the Fountain Valley Channel.	

APPENDIX C

INTERVIEW FORMS

Leighton

Leighton

Phase I ESA Users Questionnaire

Project Name: Former Moiola School Site

Complete and Correct Address(es) of the Property and APN(s):

User Company Name:	**User Name/Title:**
Brookfield Residential	John O'Brien, Vice President

User Phone/Email: john.obrien@brookfieldrp.com

Interviewee Name and Relationship to Project:

John O'Brien, Vice President

Site Owner: Fountain Valley School District

Reason Phase I is required:

Due diligence for property purchase

Type of property:

School

Type of property transaction (e.g., Sale, purchase, exchange):

Purchase

Any scope of services beyond the ASTM Practice E 1527:

Phase II ESA

All Parties that will rely on the Phase I report:

Brookfield Residential, Brookfield SoCal Builders

Name and Contact Information for Site Contact:

Fountain Valley School District

Any special terms or conditions:

None

Any other pertinent knowledge or experience with the property (e.g., prior reports, documents, correspondence concerning the environmental conditions of the property):

None

(1). Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).

Did a search of recorded land title records (or judicial records where appropriate identify any environmental liens filed or recorded against the property under federal, tribal, state or local law? ☐ Yes | ■ No

If Yes, Describe:

(2). Activity and land use limitations (AULs) that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).

Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law? ☐ Yes | ■ No

If Yes, Describe:

(3). Specialized knowledge or experience of the person seeking to qualify for the Landowners Liability Protections (LLP) (40 CFR 312.28).

Do you have any specialized knowledge or experience related to the property or the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?
☐ Yes | ■ No

If Yes, Describe:

(4). Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 DRF 312.29).

Does the purchase price being paid for this property reasonably reflect the fair market value of the property?

■ Yes | ☐ No

If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? ☐ Yes | ☐ No

If Yes, Describe:

(5). Commonly known or reasonable ascertainable information about the property (40 CFR 312.30).

Are you aware of commonly known or *reasonably ascertainable* information about the property that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as user,

(a.) Do you know the past uses of the property? ☐ Yes | ■ No

(b.) Do you know of specific chemicals that are present or once were present at the property? ☐ Yes | ☒ No

(c.) Do you know of spills or other chemical releases that have taken place at the property? ☐ Yes | ☒ No

(d.) Do you know of any environmental cleanups that have taken place at the property? ☐ Yes | ☒ No

If Yes, Describe:

(6). The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

Based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property?* ☐ Yes | ■ No

If Yes, Describe:

Signature

8-28-19
Date

Leighton

APPENDIX D

ENVIRONMENTAL LIEN AND AUL SEARCH REPORT

Leighton

BROOKFIELD LA- FOUNTAIN VALLEY
9790 FINCH AVENUE
FOUNTAIN VALLEY, CA 92708

Inquiry Number: 5682876.7S
JUNE 15, 2019

EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

BROOKFIELD LA- FOUNTAIN VALLEY
9790 FINCH AVENUE
FOUNTAIN VALLEY, CA 92708

RESEARCH SOURCE

Source 1: ORANGE COUNTY RECORDER'S OFFICE

Source 2: CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed:	GRANT DEED
Title is vested in:	FOUNTAIN VALLEY SCHOOL DISTRICT
Title received from:	VIRGINIE CALLENS, BERNICE PRIEDRICH, IRENE CALLENS, VERMEULEN AND JOSEPH R. CALLENS
Date Executed:	09/02/1969
Date Recorded:	01/08/1970
Book:	9186
Page:	404
Volume:	NA
Instrument#:	3897
Docket:	NA
Land Record Comments:	NA
Miscellaneous Comments:	NA

Legal Description: SEC 31 T 5 R 10 POR SE1/4

Current Owner: FOUNTAIN VALLEY SCHOOL DISTRICT

Property Identifiers: 157-033-15

Comments: NA

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	NA
Miscellaneous:	NA

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	NA
Miscellaneous:	NA

EDR Environmental Lien and AUL Search

MISCELLANEOUS

Type of Instrument: NONE IDENTIFIED
First Party:
Second Party:
Date Executed:
Date Recorded:
Instrument #:
Book:
Page:
Comments:

EDR Environmental Lien and AUL Search

DEED EXHIBIT

RECORDING REQUESTED BY

3897

BOOK 9186 PAGE 404

AND WHEN RECORDED MAIL TO

Name / Street Address / City & State:
Fountain Valley School District
1 Lighthouse Lane
Fountain Valley, Calif. 92708

FREE
C2

RECORDED AT REQUEST OF
TITLE INSURANCE & TRUST CO.
IN OFFICIAL RECORDS OF
ORANGE COUNTY, CALIF.
11:49 A M JAN 8 1970
J. WYLIE CARLYLE, County Recorder

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

Name / Street Address / City & State:
as above

DOCUMENTARY TRANSFER TAX $ Exempt #2
COMPUTED ON FULL VALUE OF PROPERTY CONVEYED,
OR COMPUTED ON FULL VALUE LESS LIENS AND
ENCUMBRANCES REMAINING AT TIME OF SALE.
Rose L. Bradley TITLE INSURANCE AND TRUST COMPANY
Signature of Declarant or Agent determining tax. Firm Name

Grant Deed

D.T.T. $ Exempt #2

TO 405 CA (9-68) THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,
VIRGINIE CALLENS, BERNICE FRIEDRICH, IRENE CALLENS VERMEULEN and JOSEPH R. CALLENS

hereby GRANT(S) to FOUNTAIN VALLEY SCHOOL DISTRICT,

the following described real property in the City of Fountain Valley,
County of Orange, State of California:

That portion of the Southeast quarter of Section 31, Township 5 South, Range 10 West, in the Rancho Las Bolsas, in the city of Fountain Valley, county of Orange, State of California, as described in full on Exhibit "A" attached hereto and made a part hereof.

Dated September 2, 1969

Virginie Callens
Virginie Callens
Bernice Friedrich
Bernice Friedrich
Irene Callens Vermeulen
Irene Callens Vermeulen
Joseph R. Callens
Joseph R. Callens

STATE OF CALIFORNIA
COUNTY OF Ventura } SS.

On November 24, 1969 before me, the undersigned, a Notary Public in and for said State, personally appeared Bernice Friedrich

known to me to be the person whose name is subscribed to the within instrument and acknowledged that she executed the same.

WITNESS my hand and official seal.

Signature Thomas R. Ferguson

THOMAS R. FERGUSON
Name (Typed or Printed)

OFFICIAL SEAL
THOMAS R. FERGUSON
NOTARY PUBLIC, CALIFORNIA
PRINCIPAL OFFICE IN
VENTURA COUNTY
My Commission Expires March 4, 1972

(This area for official notarial seal)

Title Order No. Escrow or Loan No. 472093 RB

MAIL TAX STATEMENTS AS DIRECTED ABOVE

COMPARE A.P. LOG POSTER LOCATOR

T. 472093 RB
Adst Sec 31-5-10

#3897 BK. 9186 pg. 404 1-8-70

COMPARE

A. P. LOG

POSTER

LOCATOR

RECORDING REQUESTED BY

3897

BOOK 9186 PAGE 404

AND WHEN RECORDED MAIL TO

Name
Street Address
City & State

Fountain Valley School District
1 Lighthouse Lane
Fountain Valley, Calif. 92708

FREE
C2

RECORDED AT REQUEST OF
TITLE INSURANCE & TRUST CO.
IN OFFICIAL RECORDS OF
ORANGE COUNTY, CALIF.
11:49 A M JAN 8 1970
J. WYLIE CARLYLE, County Recorder

MAIL TAX STATEMENTS TO

Name
Street Address
City & State

as above

SPACE ABOVE THIS LINE FOR RECORDER'S USE

DOCUMENTARY TRANSFER TAX $ 3.72 Re
COMPUTED ON FULL VALUE OF PROPERTY CONVEYED,
OR COMPUTED ON FULL VALUE LESS LIENS AND ENCUMBRANCES REMAINING AT TIME OF SALE.
Ruth L. Bradley TITLE INSURANCE AND TRUST COMPANY
Signature of Declarant or Agent determining tax. Firm Name

T. 4720 93 MM
Ab 5x Sec 31-5-10

Grant Deed

D.T.T. $ Exempt #2

TO 405 CA (9-68) THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,
VIRGINIE CALLENS, BERNICE FRIEDRICH, IRENE CALLENS VERMEULEN and JOSEPH R. CALLENS

hereby GRANT(S) to FOUNTAIN VALLEY SCHOOL DISTRICT,

the following described real property in the City of Fountain Valley,
County of Orange , State of California:

TO 447 C
(Individual)

BOOK 9186 PAGE 405 (TI)

ip 5
of
scribed
f.

STATE OF CALIFORNIA
COUNTY OF ORANGE } SS.

On December 1, 1969 before me, the undersigned, a Notary Public in and for said State, personally appeared Virginie Callens and Joseph R. Callens

, known to me

to be the person s whose names are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

Signature Chas. D. Swanner

Chas. D. Swanner
Name (Typed or Printed)

CHAS. D. SWANNER
Notary Public
State of California
Principal Office In
Orange County

My Commission Expires Oct. 1, 1971
(This area for official notarial seal)

STAPLE HERE

Dated September 4, 1969

Virginie Callens
Virginie Callens
Bernice Friedrich
Bernice Friedrich
Irene Callens Vermeulen
Irene Callens Vermeulen
Joseph R. Callens
Joseph R. Callens

TO 447 C
(Individual)

STATE OF CALIFORNIA
COUNTY OF ORANGE } SS.

ne; the under-
ally appeared

On November 28, 1969 before me, the undersigned, a Notary Public in and for said State, personally appeared Irene Callens Vermeulen

, known to me

to be the person _____ whose name is subscribed to the within instrument and acknowledged that she executed the same.

WITNESS my hand and official seal.

Signature Chas. D. Swanner

Chas. D. Swanner
Name (Typed or Printed)

CHAS. D. SWANNER
Notary Public
State of California
Principal Office In
Orange County

My Commission Expires Oct.1,1971
(This area for official notarial seal)

STAPLE HERE

COMPARE
A. P. LOG
POSTER
LOCATOR

DESCRIPTION

All that real property in the City of Fountain Valley, County of Orange, State of California, being that portion of the Southeast quarter of Section 31, Township 5 South, Range 10 West, in the Rancho Las Bolsas, as said section is shown on the map recorded in book 51 page 12 of Miscellaneous Maps, records of said county, described as follows:

Beginning at the intersection of the Westerly line of the Northeast quarter of said Southeast quarter with the center line of Finch Avenue, as said centerline is indicated on the map of Tract 5015, recorded in book 178 pages 42 to 44 inclusive, of Miscellaneous Maps, records of said County, said centerline being 30.00 feet Northerly of and parallel with the Northerly line of Lot 28 of said Tract; thence parallel with the Northerly line of said Southeast quarter, North 89° 58' 49" East 959.19 feet to a line parallel with the Easterly line of said Southeast quarter and distant Westerly 360.00 feet therefrom, measured at right angles; thence along said parallel line South 0° 25' 36" East 604.25 feet to the Northerly line of the land described in the deed to the City of Fountain Valley recorded May 26, 1964 in book 7060, page 301 of Official Records, records of said County; thence along said Northerly line, South 89° 59' 05" West 759.07 feet to the beginning of a tangent curve in said Northerly line, concave Southeasterly and having a radius of 235.00 feet; thence Southwesterly, along said curve, and along the 235.00 foot radius curve on the Northwesterly line of the land described in the deed to the City of Fountain Valley recorded May 26, 1964, in book 7060, page 297 of said Official Records, through a central angle of 57° 53' 14" a distance of 237.46 feet to the Westerly line of the Southeast quarter of said Southeast quarter; thence along said Westerly line, and along the Westerly line of the Northeast quarter of said Southeast quarter, North 0° 26' 51" West 714.30 feet to the point of beginning.

RESERVING THEREFROM an easement for storm drain purposes over, under and across that real property in the City of Fountain Valley, County of Orange, State of California, being that portion of the Southeast quarter of Section 31, Township 5 South, Range 10 West, in the Rancho Las Bolsas, as said Section is shown on the map recorded in book 51 page 12 of Miscellaneous Maps, records of said county, described as follows:

A strip of land 10 feet wide lying 5 feet on each side of the following described centerline: Commencing at the intersection of the Westerly line of the Northeast quarter of said Southeast quarter with the centerline of Finch Avenue, as said centerline is indicated on the map of Tract 5015 recorded in book 178 pages 42 to 44 inclusive, of Miscellaneous Maps, records of said County, said center line being 30.00 feet Northerly of and parallel with the Northerly line of Lot 28 of said Tract; thence parallel with the Northerly line of said Southeast quarter, North 89° 58' 49" East 584.18 feet to the true point of beginning of the centerline herein described; thence South 0° 25' 36" West, along a line parallel with the Easterly line of said Southeast quarter and distant Westerly 735.00 feet therefrom, measured at right angles, a distance of 604.23 feet to the Northerly line of the land described in the deed to the City of Fountain Valley recorded May 26, 1964, in Book 7060, page 301 of Official Records, records of said County.

ALSO RESERVING unto the grantors herein, their heirs, successors and assigns, all oil, gas, minerals, and other hydrocarbon substances lying below a depth of 500 feet from the surface of said land, but without the right of entry upon any portion of the surface above a depth of 500 feet, to take, market, mine, explore or drill for same.

EXHIBIT "A"

COMPARE
A. P. LOG
POSTER
LOCATOR

RESOLUTION OF THE BOARD OF TRUSTEES OF
FOUNTAIN VALLEY SCHOOL DISTRICT OF
ORANGE COUNTY, CALIFORNIA

November 20 ,1969

On motion of Trustee Donovan , duly seconded and carried, the following Resolution was adopted:

BE IT RESOLVED that the certain Grant Deed to this District, dated September 2 , 1969, and executed by Virginie Callens, Joseph R. Callens, Bernice Frederich and Irene Callens Vermeulen is hereby accepted and ordered recorded.

AYES: 5 TRUSTEES

NOES: 0 TRUSTEES

ABSENT: 0 TRUSTEES

STATE OF CALIFORNIA)
) ss.
COUNTY OF ORANGE)

I, William Crane , Clerk of the Board of Trustees of Fountain Valley School District of Orange County, California, hereby certify that the above and foregoing Resolution was duly and regularly adopted by the said Board at a regular meeting thereof held on the 20th day of November , 19 69 , and passed by a unanimous vote of said Board.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 20th day of November , 19 69 .

William Crane
Clerk of said Board of Trustees

APPENDIX E

ENVIRONMENTAL RADIUS REPORT AND VAPOR ENCROACHMENT SCREEN

Leighton

Brookfield LA- Fountain Valley
9790 Finch Avenue
Fountain Valley, CA 92708

Inquiry Number: 5682876.2s
June 13, 2019

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

9790 FINCH AVENUE
FOUNTAIN VALLEY, CA 92708

COORDINATES

Latitude (North):	33.6913580 - 33° 41' 28.88''
Longitude (West):	117.9569000 - 117° 57' 24.84''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	411310.5
UTM Y (Meters):	3728152.5
Elevation:	13 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640950 NEWPORT BEACH, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140514, 20140513
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
9790 FINCH AVENUE
FOUNTAIN VALLEY, CA 92708

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	DYE MASTERS	18627 BROOKHURST ST	EDR Hist Cleaner	Higher	313, 0.059, ENE
B2	ALBERTSONS 6170	18579 BROOKHURST STR	RCRA-CESQG	Higher	313, 0.059, NNE
B3	ALBERTSONS #170	18579 BROOKHURST ST	CERS HAZ WASTE, CERS	Higher	313, 0.059, NNE
B4	ALBERTSONS #6170	18579 BROOKHURST	RCRA-LQG	Higher	313, 0.059, NNE
A5	LANE CHIROPRACTIC	18589 BROOKHURST ST	RCRA-SQG, FINDS, ECHO	Higher	364, 0.069, ENE
C6	JOSEPH R. CALLENS	9736 ELLIS AVE	HIST UST	Higher	365, 0.069, NNW
C7	JOSEPH CALLENS & SON	9736 ELLIS AVE	UST	Higher	365, 0.069, NNW
C8	JOSEPH R CALLENS AND	9736 E ELLIS AVE	HIST UST, HAZNET	Higher	365, 0.069, NNW
A9	CROWN CLEANERS	18583 BROOKHURST	RCRA-SQG, CPS-SLIC, CERS HAZ WASTE, Orange Co....	Higher	386, 0.073, NE
A10	CROWN CLEANERS	18583 BROOKHURST ST	RCRA-SQG, CPS-SLIC, HAZNET, CERS	Higher	386, 0.073, NE
A11	CROWN CLEANERS, LUPE	18583 BROOKHURST ST	DRYCLEANERS	Higher	386, 0.073, NE
A12	CROWN CLEANERS	18583 BROOKHURST ST	EDR Hist Cleaner	Higher	386, 0.073, NE
B13	AUTOZONE #4037	18533 BROOKHURST ST	CERS HAZ WASTE, HAZNET, CERS	Higher	510, 0.097, NNE
D14	EUROPEAN DRY CLEANER	18834 BROOKHURST ST	DRYCLEANERS	Higher	515, 0.098, SE
D15	TAYLOR'S CLEANERS	18834 BROOKHURST ST	DRYCLEANERS	Higher	515, 0.098, SE
D16	ROYAL OAKS CLEANERS	18834 BROOKHURST	RCRA-SQG, FINDS, ECHO	Higher	515, 0.098, SE
D17	MAGBUAL'S CLEANERS	18834 BROOKHURST ST	DRYCLEANERS	Higher	515, 0.098, SE
D18	CRYSTAL CLEAR CLEANE	18834 BROOKHURST	DRYCLEANERS	Higher	515, 0.098, SE
D19	EUROPEAN CLEANERS OF	18834 BROOKHURST ST	DRYCLEANERS	Higher	515, 0.098, SE
D20	ELEGANTE CLEANERS	18834 BROOKHURST ST	EDR Hist Cleaner	Higher	515, 0.098, SE
D21	ROYAL OAK CLEANER	18834 BROOKHURST AVE	DRYCLEANERS	Higher	515, 0.098, SE
E22	ARCO FACILITY NO 097	18520 BROOKHURST ST	RCRA-SQG, HIST UST, FINDS, ECHO	Higher	741, 0.140, NE
E23	TESORO USA 63383	18520 BROOKHURST ST	RCRA NonGen / NLR	Higher	741, 0.140, NE
E24	TESORO (USA) 63383	18520 BROOKHURST ST	CERS HAZ WASTE, CERS TANKS, HAZNET, CERS	Higher	741, 0.140, NE
E25	THRIFTY OIL #383	18520 BROOKHURST ST	LUST, CHMIRS, HAZNET, CERS	Higher	741, 0.140, NE
E26	THRIFTY OIL STN #383	18520 BROOKHURST ST	UST	Higher	741, 0.140, NE
E27	THRIFTY OIL STN #383	18520 BROOKHURST AVE	SWEEPS UST, CA FID UST, HIST CORTESE	Higher	741, 0.140, NE
E28	THRIFTY OIL COMPANY	18520 BROOKHURST STR	UST	Higher	741, 0.140, NE
F29	NORGETOWN CLEANERS	18888 BROOKHURST ST	DRYCLEANERS	Higher	853, 0.162, SE
F30	FORMER RED DOOR CLEA	18888 BROOKHURST STR	ENVIROSTOR, VCP, HAZNET	Higher	853, 0.162, SE
E31	MK OIL INC	18480 BROOKHURST ST	LUST, UST, SWEEPS UST, Orange Co. Industrial Site,...	Higher	915, 0.173, NE
E32	ARCO #1912	18480	CA FID UST, HIST CORTESE	Higher	915, 0.173, NE
E33	ROBERT STRAZZ	18480 BROOKHURST ST	HIST UST	Higher	915, 0.173, NE
E34	BP WEST COAST PRODUC	18480 BROOKHURST ST	CERS HAZ WASTE, CERS TANKS, HAZNET, CERS	Higher	915, 0.173, NE
E35	HOME CARE SAMARITANS	18444 BROOKHURST	RCRA NonGen / NLR	Higher	996, 0.189, NE
G36	FOUNTAIN VALLEY AUTO	10035 ELLIS AVE	HIST UST	Higher	1087, 0.206, NE
G37	BEACON BAY AUTO WASH	10035 ELLIS AVE	UST, SWEEPS UST	Higher	1087, 0.206, NE
G38	FOUNTAIN VALLEY AUTO	10035 ELLIS AVENUE	LUST, HIST UST, CA FID UST, HIST CORTESE, CERS	Higher	1087, 0.206, NE
H39	SHELL OIL CO	18976 BROOKHURST	RCRA-SQG, SWEEPS UST, CA FID UST, HIST CORTESE,...	Higher	1307, 0.248, SSE

MAPPED SITES SUMMARY

Target Property Address:
9790 FINCH AVENUE
FOUNTAIN VALLEY, CA 92708

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
H40	SHELL OIL	18976 BROOKHURST	LUST, Cortese, CERS	Higher	1307, 0.248, SSE
H41	TONY P MANAGO	18976 BROOKHURST	HIST UST	Higher	1307, 0.248, SSE
H42	TONYS SHELL SERVICE	18976 BROOKHURST ST	HIST UST	Higher	1307, 0.248, SSE
H43	SHELL (3835-0710)	18976 BROOKHURST ST	UST	Higher	1307, 0.248, SSE
44	REPLANET LLC	18405 BROOKHURST	SWRCY	Higher	1430, 0.271, NNE
H45	MOBIL OIL	19002 BROOKHURST	LUST, CERS	Higher	1430, 0.271, SSE
H46	MOBIL #18-KB5	19002 BROOKHURST	HIST CORTESE, CERS	Higher	1430, 0.271, SSE
H47	MOBIL #18-KB5	19002 BROOKHURST ST	LUST, UST, SWEEPS UST	Higher	1430, 0.271, SSE
I48	EXXON #7-3616	19001 BROOKHURST ST	SWEEPS UST, CA FID UST, HIST CORTESE	Higher	1528, 0.289, SSE
I49	GARFIELD CHEVRON	19001 BROOKHURST	LUST, HIST CORTESE, CERS	Higher	1528, 0.289, SSE
I50	EXXON USA	19001 N BROOKHURST S	LUST	Higher	1528, 0.289, SSE
51	A AND G ELECTROPOLIS	18330 WARD ST	RCRA-SQG, ENVIROSTOR, CERS HAZ WASTE, FINDS, ECHO,	Higher	3438, 0.651, ENE
52	CIBA-GEIGY CORP	18435 BANDILIER CIRC	HWP, CERS	Higher	4581, 0.868, ENE
53	MAX'S CLEANERS (MAGN	19171 MAGNOLIA STREE	ENVIROSTOR	Lower	4856, 0.920, WSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
AST ---------- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---------- Waste Management Unit Database
HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
ODI ---------- Open Dump Inventory
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---------- Historical Calsites Database
SCH ---------- School Property Evaluation Program
CDL ---------- Clandestine Drug Labs
Toxic Pits ---------- Toxic Pits Cleanup Act Sites
US CDL ---------- National Clandestine Laboratory Register
PFAS ---------- PFAS Contamination Site Location Listing

Local Land Records

LIENS ---------- Environmental Liens Listing
LIENS 2 ---------- CERCLA Lien Information
DEED ---------- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System

CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
Orange Co. Industrial Site	List of Industrial Site Cleanups
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
ECHO	Enforcement & Compliance History Information
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CUPA Listings	CUPA Resources List
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HAZNET	Facility and Manifest Data
ICE	ICE
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing

NPDES ---- NPDES Permits Listing
PEST LIC ---- Pesticide Regulation Licenses Listing
PROC ---- Certified Processors Database
Notify 65 ---- Proposition 65 Records
UIC ---- UIC Listing
UIC GEO ---- UIC GEO (GEOTRACKER)
WASTEWATER PITS ---- Oil Wastewater Pits Listing
WDS ---- Waste Discharge System
MILITARY PRIV SITES ---- MILITARY PRIV SITES (GEOTRACKER)
PROJECT ---- PROJECT (GEOTRACKER)
WDR ---- Waste Discharge Requirements Listing
CIWQS ---- California Integrated Water Quality System
CERS ---- CERS
WIP ---- Well Investigation Program Case List
NON-CASE INFO ---- NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS ---- OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS ---- PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT ---- SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ ---- Well Stimulation Project (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---- EDR Proprietary Manufactured Gas Plants
EDR Hist Auto ---- EDR Exclusive Historical Auto Stations

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---- Recovered Government Archive Solid Waste Facilities List
RGA LUST ---- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

EXECUTIVE SUMMARY

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALBERTSONS #6170 EPA ID:: CAR000257048	18579 BROOKHURST	NNE 0 - 1/8 (0.059 mi.)	B4	17

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/25/2019 has revealed that there are 6 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LANE CHIROPRACTIC EPA ID:: CAD983629619	***18589 BROOKHURST ST***	***ENE 0 - 1/8 (0.069 mi.)***	***A5***	***19***
CROWN CLEANERS EPA ID:: CAD983639683	***18583 BROOKHURST***	***NE 0 - 1/8 (0.073 mi.)***	***A9***	***23***
CROWN CLEANERS EPA ID:: CAR000066050	***18583 BROOKHURST ST***	***NE 0 - 1/8 (0.073 mi.)***	***A10***	***34***
ROYAL OAKS CLEANERS EPA ID:: CAD981619059	***18834 BROOKHURST***	***SE 0 - 1/8 (0.098 mi.)***	***D16***	***46***
ARCO FACILITY NO 097 EPA ID:: CAD981963754	***18520 BROOKHURST ST***	***NE 1/8 - 1/4 (0.140 mi.)***	***E22***	***51***
SHELL OIL CO EPA ID:: CAD981446651	***18976 BROOKHURST***	***SSE 1/8 - 1/4 (0.248 mi.)***	***H39***	***170***

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALBERTSONS 6170	18579 BROOKHURST STR	NNE 0 - 1/8 (0.059 mi.)	B2	8

EPA ID:: CAL000384178

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 01/28/2019 has revealed that there are 3 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER RED DOOR CLEA	***18888 BROOKHURST STR***	***SE 1/8 - 1/4 (0.162 mi.)***	***F30***	***104***
A AND G ELECTROPOLIS	***18330 WARD ST***	***ENE 1/2 - 1 (0.651 mi.)***	***51***	***204***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MAX'S CLEANERS (MAGN	19171 MAGNOLIA STREE	WSW 1/2 - 1 (0.920 mi.)	53	239

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 8 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THRIFTY OIL #383	***18520 BROOKHURST ST***	***NE 1/8 - 1/4 (0.140 mi.)***	***E25***	***89***

Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Status: Remedial action (cleanup) Underway
Global Id: T0605900650
Global ID: T0605900650
Facility Id: 87UT050

MK OIL INC	***18480 BROOKHURST ST***	***NE 1/8 - 1/4 (0.173 mi.)***	***E31***	***107***

Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019
Database: LUST, Date of Government Version: 12/10/2018

Status: Open - Remediation
Facility Status: Remedial action (cleanup) Underway
Global Id: T0605900032
Global ID: T0605900032
Facility Id: 85UT085

FOUNTAIN VALLEY AUTO ***10035 ELLIS AVENUE*** ***NE 1/8 - 1/4 (0.206 mi.)*** ***G38*** ***164***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Status: Post remedial action monitoring
Global Id: T0605900955
Global ID: T0605900955
Facility Id: 89UT071

SHELL OIL ***18976 BROOKHURST*** ***SSE 1/8 - 1/4 (0.248 mi.)*** ***H40*** ***175***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019
Database: LUST, Date of Government Version: 12/10/2018
Status: Open - Verification Monitoring
Facility Status: Pollution Characterization
Global Id: T0605900265
Global ID: T0605900265
Facility Id: 86UT033

MOBIL OIL ***19002 BROOKHURST*** ***SSE 1/4 - 1/2 (0.271 mi.)*** ***H45*** ***185***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Status: Case Closed
Global Id: T0605957667
Global Id: T0605900543
Global ID: T0605900543
Facility Id: 03UT036
Facility Id: 87UT233

MOBIL #18-KB5 ***19002 BROOKHURST ST*** ***SSE 1/4 - 1/2 (0.271 mi.)*** ***H47*** ***192***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Preliminary site assessment workplan submitted
Global ID: T0605957667

GARFIELD CHEVRON ***19001 BROOKHURST*** ***SSE 1/4 - 1/2 (0.289 mi.)*** ***I49*** ***197***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Status: Preliminary site assessment underway
Global Id: T0605920613
Global Id: T0605900778
Global ID: T0605900778
Facility Id: 01UT013

EXXON USA 19001 N BROOKHURST S SSE 1/4 - 1/2 (0.289 mi.) I50 204
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019
Facility Id: 88UT137

EXECUTIVE SUMMARY

CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 2 CPS-SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CROWN CLEANERS	***18583 BROOKHURST***	***NE 0 - 1/8 (0.073 mi.)***	***A9***	***23***
Database: CPS-SLIC, Date of Government Version: 12/10/2018 Global Id: SLT8R0643948 Facility Status: Completed - Case Closed				
CROWN CLEANERS	***18583 BROOKHURST ST***	***NE 0 - 1/8 (0.073 mi.)***	***A10***	***34***
Database: SLIC REG 8, Date of Government Version: 04/03/2008				

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 6 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JOSEPH CALLENS & SON	9736 ELLIS AVE	NNW 0 - 1/8 (0.069 mi.)	C7	22
Database: UST, Date of Government Version: 12/10/2018 Facility Id: 18543				
THRIFTY OIL STN #383	18520 BROOKHURST ST	NE 1/8 - 1/4 (0.140 mi.)	E26	99
Database: ORANGE CO. UST, Date of Government Version: 01/02/2019 Database: UST, Date of Government Version: 12/10/2018 Facility Id: FA0059621 Facility Id: FA0059621 Facility Id: 5092				
THRIFTY OIL COMPANY	18520 BROOKHURST STR	NE 1/8 - 1/4 (0.140 mi.)	E28	101
Database: UST CLOSURE, Date of Government Version: 03/11/2019				
MK OIL INC	***18480 BROOKHURST ST***	***NE 1/8 - 1/4 (0.173 mi.)***	***E31***	***107***
Database: ORANGE CO. UST, Date of Government Version: 01/02/2019 Database: UST, Date of Government Version: 12/10/2018 Facility Id: FA0062548 Facility Id: 2373				
BEACON BAY AUTO WASH	***10035 ELLIS AVE***	***NE 1/8 - 1/4 (0.206 mi.)***	***G37***	***161***
Database: UST, Date of Government Version: 12/10/2018 Facility Id: 5094				
SHELL (3835-0710)	18976 BROOKHURST ST	SSE 1/8 - 1/4 (0.248 mi.)	H43	184
Database: UST, Date of Government Version: 12/10/2018 Facility Id: 2379				

State and tribal voluntary cleanup sites

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the VCP list, as provided by EDR, and dated 01/28/2019 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER RED DOOR CLEA	***18888 BROOKHURST STR***	***SE 1/8 - 1/4 (0.162 mi.)***	***F30***	***104***
Status: Active				
Facility Id: 60002715				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 03/11/2019 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
REPLANET LLC	18405 BROOKHURST	NNE 1/4 - 1/2 (0.271 mi.)	44	185
Cert Id: RC156195.001				

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 04/09/2019 has revealed that there are 5 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALBERTSONS #170	***18579 BROOKHURST ST***	***NNE 0 - 1/8 (0.059 mi.)***	***B3***	***12***
CROWN CLEANERS	***18583 BROOKHURST***	***NE 0 - 1/8 (0.073 mi.)***	***A9***	***23***
AUTOZONE #4037	***18533 BROOKHURST ST***	***NNE 0 - 1/8 (0.097 mi.)***	***B13***	***37***
TESORO (USA) 63383	***18520 BROOKHURST ST***	***NE 1/8 - 1/4 (0.140 mi.)***	***E24***	***55***
BP WEST COAST PRODUC	***18480 BROOKHURST ST***	***NE 1/8 - 1/4 (0.173 mi.)***	***E34***	***117***

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 4 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THRIFTY OIL STN #383 Status: A Tank Status: A Comp Number: 5092	***18520 BROOKHURST AVE***	***NE 1/8 - 1/4 (0.140 mi.)***	***E27***	***99***
MK OIL INC Status: A Tank Status: A Comp Number: 2373	***18480 BROOKHURST ST***	***NE 1/8 - 1/4 (0.173 mi.)***	***E31***	***107***
BEACON BAY AUTO WASH Status: A Tank Status: A Comp Number: 5094	***10035 ELLIS AVE***	***NE 1/8 - 1/4 (0.206 mi.)***	***G37***	***161***
SHELL OIL CO Status: A Tank Status: A Comp Number: 2379	***18976 BROOKHURST***	***SSE 1/8 - 1/4 (0.248 mi.)***	***H39***	***170***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 8 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JOSEPH R. CALLENS Facility Id: 00000048322	9736 ELLIS AVE	NNW 0 - 1/8 (0.069 mi.)	C6	21
JOSEPH R CALLENS AND	***9736 E ELLIS AVE***	***NNW 0 - 1/8 (0.069 mi.)***	***C8***	***22***
ARCO FACILITY NO 097 Facility Id: 00000006156	***18520 BROOKHURST ST***	***NE 1/8 - 1/4 (0.140 mi.)***	***E22***	***51***
ROBERT STRAZZ Facility Id: 00000026657	18480 BROOKHURST ST	NE 1/8 - 1/4 (0.173 mi.)	E33	116
FOUNTAIN VALLEY AUTO Facility Id: 00000042394	10035 ELLIS AVE	NE 1/8 - 1/4 (0.206 mi.)	G36	159
FOUNTAIN VALLEY AUTO	***10035 ELLIS AVENUE***	***NE 1/8 - 1/4 (0.206 mi.)***	***G38***	***164***
TONY P MANAGO Facility Id: 00000004478	18976 BROOKHURST	SSE 1/8 - 1/4 (0.248 mi.)	H41	182
TONYS SHELL SERVICE Facility Id: 00000063334	18976 BROOKHURST ST	SSE 1/8 - 1/4 (0.248 mi.)	H42	183

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 04/09/2019 has revealed that there are 2 CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TESORO (USA) 63383	***18520 BROOKHURST ST***	***NE 1/8 - 1/4 (0.140 mi.)***	***E24***	***55***
BP WEST COAST PRODUC	***18480 BROOKHURST ST***	***NE 1/8 - 1/4 (0.173 mi.)***	***E34***	***117***

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 4 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THRIFTY OIL STN #383 Facility Id: 30000776 Status: A	***18520 BROOKHURST AVE***	***NE 1/8 - 1/4 (0.140 mi.)***	***E27***	***99***
ARCO #1912 Facility Id: 30000482 Status: A	***18480***	***NE 1/8 - 1/4 (0.173 mi.)***	***E32***	***116***
FOUNTAIN VALLEY AUTO Facility Id: 30000922 Status: A	***10035 ELLIS AVENUE***	***NE 1/8 - 1/4 (0.206 mi.)***	***G38***	***164***
SHELL OIL CO Facility Id: 30000411 Status: A	***18976 BROOKHURST***	***SSE 1/8 - 1/4 (0.248 mi.)***	***H39***	***170***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/25/2019 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TESORO USA 63383 EPA ID:: CAL000373929	18520 BROOKHURST ST	NE 1/8 - 1/4 (0.140 mi.)	E23	54
HOME CARE SAMARITANS EPA ID:: CAL000262164	18444 BROOKHURST	NE 1/8 - 1/4 (0.189 mi.)	E35	158

EXECUTIVE SUMMARY

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 03/25/2019 has revealed that there are 2 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MK OIL INC	***18480 BROOKHURST ST***	***NE 1/8 - 1/4 (0.173 mi.)***	***E31***	***107***
Cleanup Status: OPEN - REMEDIATION				
SHELL OIL	***18976 BROOKHURST***	***SSE 1/8 - 1/4 (0.248 mi.)***	***H40***	***175***
Cleanup Status: OPEN - VERIFICATION MONITORING				

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, has revealed that there are 9 DRYCLEANERS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CROWN CLEANERS	***18583 BROOKHURST***	***NE 0 - 1/8 (0.073 mi.)***	***A9***	***23***
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/19/2019				
CROWN CLEANERS, LUPE	18583 BROOKHURST ST	NE 0 - 1/8 (0.073 mi.)	A11	36
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/19/2019				
EUROPEAN DRY CLEANER	18834 BROOKHURST ST	SE 0 - 1/8 (0.098 mi.)	D14	45
Database: DRYCLEANERS, Date of Government Version: 03/01/2019				
EPA Id: CAL000289168				
EPA Id: CAL000295367				
TAYLOR'S CLEANERS	18834 BROOKHURST ST	SE 0 - 1/8 (0.098 mi.)	D15	46
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/19/2019				
MAGBUAL'S CLEANERS	18834 BROOKHURST ST	SE 0 - 1/8 (0.098 mi.)	D17	48
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/19/2019				
CRYSTAL CLEAR CLEANE	18834 BROOKHURST	SE 0 - 1/8 (0.098 mi.)	D18	49
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/19/2019				
EUROPEAN CLEANERS OF	18834 BROOKHURST ST	SE 0 - 1/8 (0.098 mi.)	D19	49
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/19/2019				
ROYAL OAK CLEANER	18834 BROOKHURST AVE	SE 0 - 1/8 (0.098 mi.)	D21	50
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/19/2019				
NORGETOWN CLEANERS	18888 BROOKHURST ST	SE 1/8 - 1/4 (0.162 mi.)	F29	101
Database: DRYCLEANERS, Date of Government Version: 03/01/2019				
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/19/2019				
EPA Id: CAD030576797				
EPA Id: CAL000271865				

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 7 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THRIFTY OIL STN #383 Reg Id: 083000824T	***18520 BROOKHURST AVE***	***NE 1/8 - 1/4 (0.140 mi.)***	***E27***	***99***
ARCO #1912 Reg Id: 083000038T	***18480***	***NE 1/8 - 1/4 (0.173 mi.)***	***E32***	***116***
FOUNTAIN VALLEY AUTO Reg Id: 083001219T	***10035 ELLIS AVENUE***	***NE 1/8 - 1/4 (0.206 mi.)***	***G38***	***164***
SHELL OIL CO Reg Id: 083000339T	***18976 BROOKHURST***	***SSE 1/8 - 1/4 (0.248 mi.)***	***H39***	***170***
MOBIL #18-KB5 Reg Id: 083000687T	***19002 BROOKHURST***	***SSE 1/4 - 1/2 (0.271 mi.)***	***H46***	***192***
EXXON #7-3616 Reg Id: 083002614T	***19001 BROOKHURST ST***	***SSE 1/4 - 1/2 (0.289 mi.)***	***I48***	***195***
GARFIELD CHEVRON Reg Id: 083000983T	***19001 BROOKHURST***	***SSE 1/4 - 1/2 (0.289 mi.)***	***I49***	***197***

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 02/19/2019 has revealed that there is 1 HWP site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CIBA-GEIGY CORP EPA Id: CAD094718590 Cleanup Status: PROTECTIVE FILER	***18435 BANDILIER CIRC***	***ENE 1/2 - 1 (0.868 mi.)***	***52***	***238***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 3 EDR Hist

EXECUTIVE SUMMARY

Cleaner sites within approximately 0.125 miles of the target property.

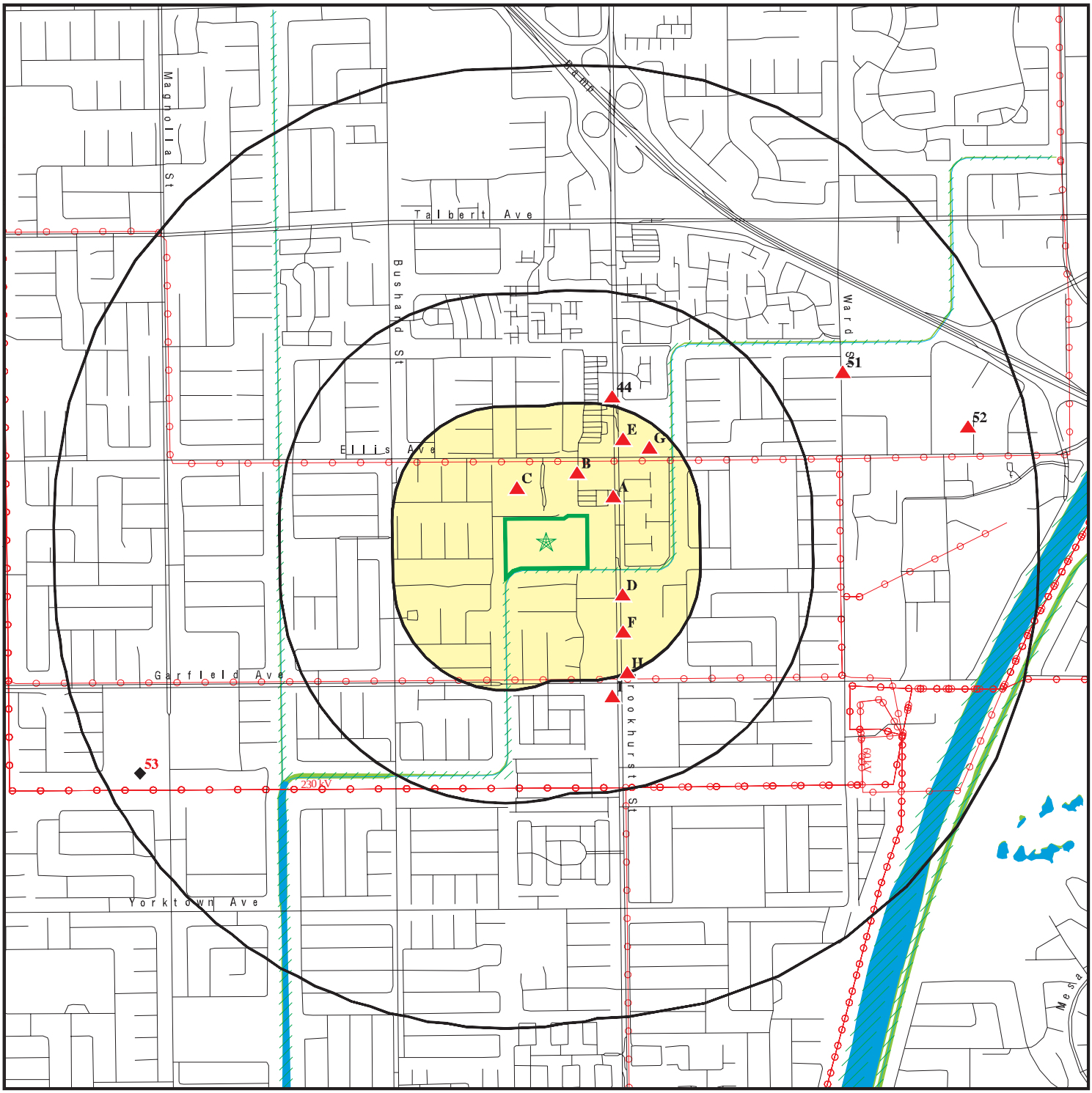
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DYE MASTERS	18627 BROOKHURST ST	ENE 0 - 1/8 (0.059 mi.)	A1	8
CROWN CLEANERS	18583 BROOKHURST ST	NE 0 - 1/8 (0.073 mi.)	A12	37
ELEGANTE CLEANERS	18834 BROOKHURST ST	SE 0 - 1/8 (0.098 mi.)	D20	50

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 5 records.

Site Name	Database(s)
PRIME CLEANERS,HOOSHANG MOVAFAGHI;	DRYCLEANERS
KARE MORE CLEANERS	DRYCLEANERS
KAREMORE CLEANERS	DRYCLEANERS
KAREMORE CLEANERS	DRYCLEANERS
KAREMORE CLEANERS, VICTOR LUONG, D	DRYCLEANERS

OVERVIEW MAP - 5682876.2S



0 1/4 1/2 1 Miles

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

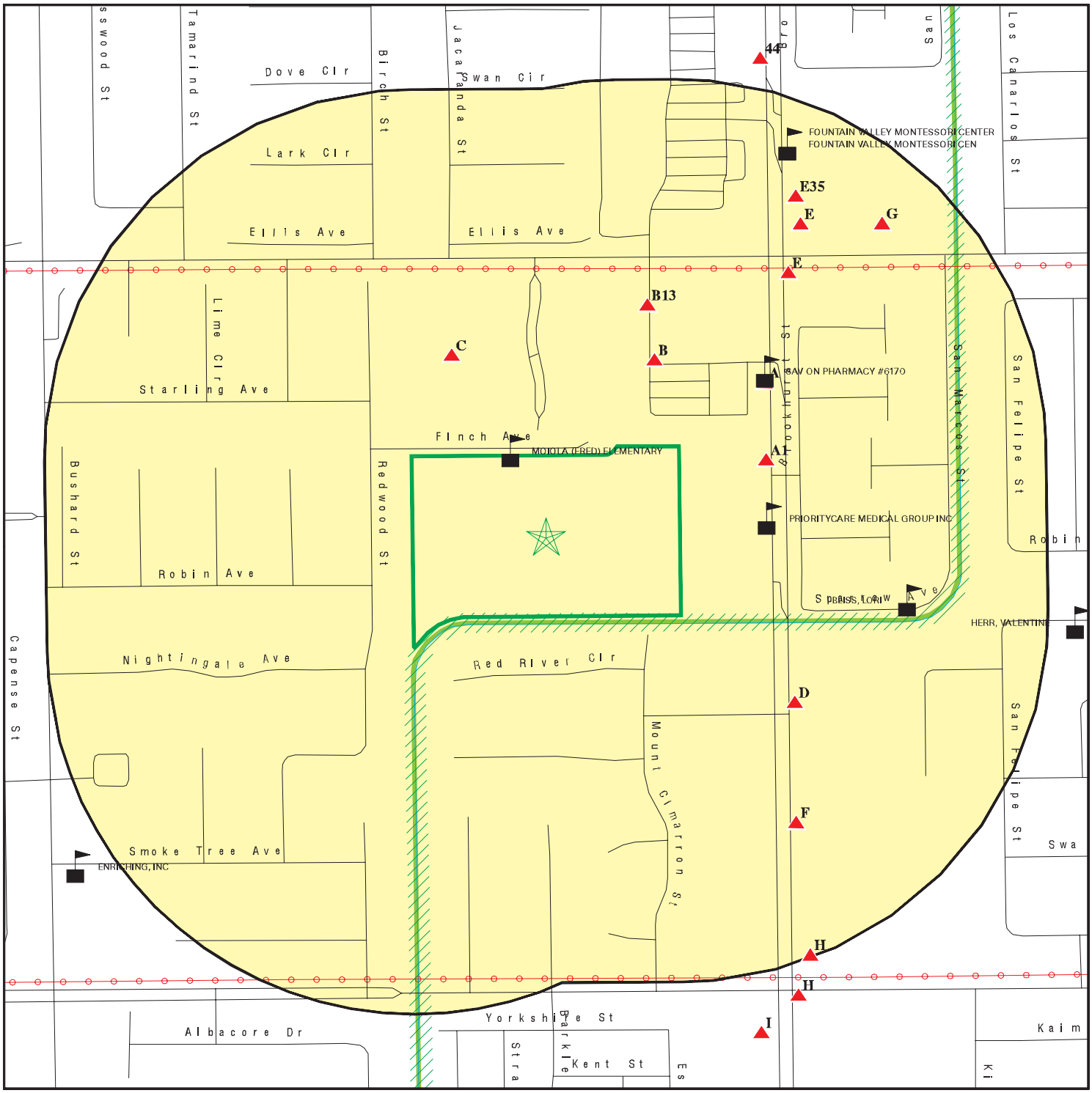
Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Brookfield LA- Fountain Valley	CLIENT:	Leighton and Associates, Inc.
ADDRESS:	9790 Finch Avenue Fountain Valley CA 92708	CONTACT:	Sabrina Gonzalez
LAT/LONG:	33.691358 / 117.9569	INQUIRY #:	5682876.2s
		DATE:	June 13, 2019 12:07 pm

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DETAIL MAP - 5682876.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Brookfield LA- Fountain Valley	CLIENT:	Leighton and Associates, Inc.
ADDRESS:	9790 Finch Avenue Fountain Valley CA 92708	CONTACT:	Sabrina Gonzalez
LAT/LONG:	33.691358 / 117.9569	INQUIRY #:	5682876.2s
		DATE:	June 13, 2019 12:09 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		1	0	NR	NR	NR	1
RCRA-SQG	0.250		4	2	NR	NR	NR	6
RCRA-CESQG	0.250		1	0	NR	NR	NR	1
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	1	0	2	NR	3
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	4	4	NR	NR	8

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		2	0	0	NR	NR	2
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		1	5	NR	NR	NR	6
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	1	0	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	1	NR	NR	1
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		3	2	NR	NR	NR	5
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	4	NR	NR	NR	4
HIST UST	0.250		2	6	NR	NR	NR	8
CERS TANKS	0.250		0	2	NR	NR	NR	2
CA FID UST	0.250		0	4	NR	NR	NR	4
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
Orange Co. Industrial Site	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	2	NR	NR	NR	2
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	2	0	NR	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		8	1	NR	NR	NR	9
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	4	3	NR	NR	7
HWP	1.000		0	0	0	1	NR	1
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		3	NR	NR	NR	NR	3
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	25	40	8	3	0	76

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
ENE
< 1/8
0.059 mi.
313 ft.

DYE MASTERS
18627 BROOKHURST ST 123
FOUNTAIN VALLEY, CA 92708

Site 1 of 6 in cluster A

EDR Hist Cleaner **1018667939**
N/A

Relative:
Higher

Actual:
14 ft.

EDR Hist Cleaner

Year:	Name:	Type:
1991	LANGENWALTER DYE CONCEPTS	Carpet And Upholstery Cleaning Plants
1992	LANGENWALTER DYE CONCEPTS	Carpet And Upholstery Cleaning Plants
1993	LANGENWALTER DYE CONCEPTS	Carpet And Upholstery Cleaning Plants
1994	LANGENWALTER DYE CONCEPTS	Carpet And Upholstery Cleaning Plants
1995	LANGENWALTER DYE CONCEPTS	Carpet And Upholstery Cleaning Plants
1996	LANGENWALTER DYE CONCEPTS	Carpet And Upholstery Cleaning Plants
1997	DYE MASTERS	Carpet And Upholstery Cleaning Plants
1997	CALIFORNIA CARPET DYERS	Carpet And Upholstery Cleaning Plants
1998	DYE MASTERS	Carpet And Upholstery Cleaning Plants
1998	CALIFORNIA CARPET DYERS	Carpet And Upholstery Cleaning Plants
1999	DYE MASTERS	Carpet And Upholstery Cleaning Plants
1999	CALIFORNIA CARPET DYERS	Carpet And Upholstery Cleaning Plants
2000	CALIFORNIA CARPET DYERS	Carpet And Upholstery Cleaning Plants
2000	DYE MASTERS	Carpet And Upholstery Cleaning Plants
2001	CALIFORNIA CARPET DYERS	Carpet And Upholstery Cleaning Plants
2002	CALIFORNIA CARPET DYERS	Carpet And Upholstery Cleaning Plants
2003	CALIFORNIA CARPET DYERS	Carpet And Upholstery Cleaning Plants
2004	CALIFORNIA CARPET DYERS	Carpet And Upholstery Cleaning Plants
2005	CALIFORNIA CARPET DYERS	Carpet And Upholstery Cleaning Plants
2014	AFFORDABLE STONE CARE ON OC	Drycleaning Plants, Except Rugs, NEC

B2
NNE
< 1/8
0.059 mi.
313 ft.

ALBERTSONS 6170
18579 BROOKHURST STREET
FOUNTAIN VALLEY, CA 92708

Site 1 of 4 in cluster B

RCRA-CESQG **1016954934**
CAL000384178

Relative:
Higher

Actual:
15 ft.

RCRA-CESQG:

Date form received by agency:	02/26/2016
Facility name:	ALBERTSONS 6170
Facility address:	18579 BROOKHURST STREET FOUNTAIN VALLEY, CA 92708
EPA ID:	CAL000384178
Mailing address:	P.O. BOX 20, DEPT 81014 BOISE, ID 83726
Contact:	ERICA FRANSEN
Contact address:	P.O. BOX 20, DEPT 81014 BOISE, ID 83726
Contact country:	US
Contact telephone:	208-395-4793
Contact email:	ERICA.FRANSEN@ALBERTSONS.COM
EPA Region:	09
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting

ALBERTSONS 6170 (Continued) **1016954934**

from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	ALBERTSONS-SAVON 6170
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	08/29/1972
Owner/Op end date:	Not reported

Owner/operator name:	ALBERTSONS, LLC
Owner/operator address:	P.O. BOX 20, DEPT 81014
	BOISE, ID 83726
Owner/operator country:	US
Owner/operator telephone:	208-395-4793
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	03/21/2013
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	03/01/2014
Site name:	ALBERTSONS 6170
Classification:	Conditionally Exempt Small Quantity Generator

ALBERTSONS 6170 (Continued) **1016954934**

Hazardous Waste Summary:

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 131
. Waste name: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 232
. Waste name: Pesticides and other waste associated with pesticide production

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

ALBERTSONS 6170 (Continued) **1016954934**

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs):	120
Waste code:	D002
Waste name:	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs):	72
Waste code:	D007
Waste name:	CHROMIUM
Amount (Lbs):	11
Waste code:	D009
Waste name:	MERCURY
Amount (Lbs):	12
Waste code:	D010
Waste name:	SELENIUM
Amount (Lbs):	11
Waste code:	D024
Waste name:	M-CRESOL
Amount (Lbs):	12
Waste code:	P001
Waste name:	2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%
Amount (Lbs):	13
Waste code:	P075
Waste name:	NICOTINE, & SALTS
Amount (Lbs):	13

Violation Status: No violations found

B3 **ALBERTSONS #170** **CERS HAZ WASTE** **S113157533**
NNE **18579 BROOKHURST ST** **CERS** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.059 mi.
313 ft. **Site 2 of 4 in cluster B**

Relative:
Higher

Actual:
15 ft.

CERS HAZ WASTE:

Site ID:	410628
CERS ID:	10138897
CERS Description:	Hazardous Waste Generator

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-05-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-15-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-19-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-14-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for routine hazardous waste inspection. Consent to enter and inspect was given by James Lacombe. Observed the facility and inspected the hazardous waste storage areas. The containers are stored closed and properly labeled. Manifests and emergency plan are available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-02-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Hazardous waste observed onsite: - Universal waste - Various consumer product damaged/returns (e.g. corrosives, flammables, toxic, etc.) - RCRA pharmaceutical waste
Eval Division:	Orange County Environmental Health

ALBERTSONS #170 (Continued) **S113157533**

Eval Program: HW
Eval Source: CERS

Coordinates:
Site ID: 410628
Facility Name: Albertsons #170
Env Int Type Code: HMBP
Program ID: 10138897
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.693110
Longitude: -117.955620

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Jill Washburn
Entity Title: Not reported
Affiliation Address: PO Box 20, Dept. #81014
Affiliation City: Boise
Affiliation State: ID
Affiliation Country: Not reported
Affiliation Zip: 83726
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: PO Box 20, Dept. #81014
Affiliation City: Boise
Affiliation State: ID
Affiliation Country: Not reported
Affiliation Zip: 83726
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Albertsons #170
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (714) 963-7503

Affiliation Type Desc: Legal Owner
Entity Name: Albertsons LLC
Entity Title: Not reported
Affiliation Address: PO Box 20, Dept. #81014
Affiliation City: Boise
Affiliation State: ID
Affiliation Country: United States
Affiliation Zip: 83726
Affiliation Phone: (208) 395-3949

Affiliation Type Desc: Identification Signer
Entity Name: Jill Washburn

ALBERTSONS #170 (Continued) **S113157533**

Entity Title: Environmental Coordinator
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6000

Affiliation Type Desc: Document Preparer
Entity Name: Jill Washburn
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: Albertsons
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

CERS TANKS:
Site ID: 410628
CERS ID: 10138897
Site Name: ALBERTSONS #170
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-05-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fountain Valley Fire
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-15-2014

ALBERTSONS #170 (Continued) **S113157533**

Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-19-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-14-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for routine hazardous waste inspection. Consent to enter and inspect was given by James Lacombe. Observed the facility and inspected the hazardous waste storage areas. The containers are stored closed and properly labeled. Manifests and emergency plan are available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-02-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Hazardous waste observed onsite: - Universal waste - Various consumer product damaged/returns (e.g. corrosives, flammables, toxic, etc.) - RCRA pharmaceutical waste
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	410628
Facility Name:	Albertsons #170
Env Int Type Code:	HMBP
Program ID:	10138897
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.693110
Longitude:	-117.955620

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Jill Washburn
Entity Title:	Not reported
Affiliation Address:	PO Box 20, Dept. #81014
Affiliation City:	Boise

ALBERTSONS #170 (Continued) **S113157533**

Affiliation State:	ID
Affiliation Country:	Not reported
Affiliation Zip:	83726
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO Box 20, Dept. #81014
Affiliation City:	Boise
Affiliation State:	ID
Affiliation Country:	Not reported
Affiliation Zip:	83726
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Albertsons #170
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 963-7503
Affiliation Type Desc:	Legal Owner
Entity Name:	Albertsons LLC
Entity Title:	Not reported
Affiliation Address:	PO Box 20, Dept. #81014
Affiliation City:	Boise
Affiliation State:	ID
Affiliation Country:	United States
Affiliation Zip:	83726
Affiliation Phone:	(208) 395-3949
Affiliation Type Desc:	Identification Signer
Entity Name:	Jill Washburn
Entity Title:	Environmental Coordinator
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	Document Preparer
Entity Name:	Jill Washburn

ALBERTSONS #170 (Continued) **S113157533**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Albertsons
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

B4 **ALBERTSONS #6170** **RCRA-LQG** **1018273579**
NNE **18579 BROOKHURST** **CAR000257048**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.059 mi.
313 ft. **Site 3 of 4 in cluster B**

Relative:
Higher

Actual:
15 ft.

RCRA-LQG:

Date form received by agency:	11/06/2015
Facility name:	ALBERTSONS #6170
Facility address:	18579 BROOKHURST FOUNTAIN VALLEY, CA 92708
EPA ID:	CAR000257048
Mailing address:	PO BOX 20 DEPT 81014 BOISE, ID 83726
Contact:	ERICA FRANSEN
Contact address:	PO BOX 20 DEPT 81014 BOISE, ID 83726
Contact country:	US
Contact telephone:	208-395-4793
Contact email:	ERICA.FRANSEN@ALBERTSONS.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	ALBERTSONS #6170
Owner/operator address:	Not reported

ALBERTSONS #6170 (Continued) **1018273579**

Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 11/01/1988
Owner/Op end date: Not reported

Owner/operator name: DONAHUE SCHRIBER REALTY GROUP
Owner/operator address: E BAKER ST #100
COSTA MESA, CA 92626
Owner/operator country: US
Owner/operator telephone: 714-545-1400
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 03/10/1988
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 131
. Waste name: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

ALBERTSONS #6170 (Continued) **1018273579**

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 232
. Waste name: Pesticides and other waste associated with pesticide production

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

Violation Status: No violations found

A5 **LANE CHIROPRACTIC** **RCRA-SQG** **1000685995**
ENE **18589 BROOKHURST ST** **FINDS** **CAD983629619**
< 1/8 **FOUNTAIN VALLEY, CA 92708** **ECHO**
0.069 mi.
364 ft. **Site 2 of 6 in cluster A**

Relative:
Higher

Actual:
14 ft.

RCRA-SQG:
Date form received by agency: 04/03/1992
Facility name: LANE CHIROPRACTIC
Facility address: 18589 BROOKHURST ST
FOUNTAIN VALLEY, CA 92708
EPA ID: CAD983629619
Contact: DONALD DR LANE
Contact address: 18589 BROOKHURST ST
FOUNTAIN VALLEY, CA 92708
Contact country: US
Contact telephone: 714-962-1674
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

LANE CHIROPRACTIC (Continued) **1000685995**

hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: DONALD LANE
Owner/operator address: 18589 BROOKHURST ST
FOUNTAIN VALLEY, CA 92708
Owner/operator country: Not reported
Owner/operator telephone: 714-962-1674
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002873383

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000685995
Registry ID: 110002873383
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002873383

C6
NNW
< 1/8
0.069 mi.
365 ft.

JOSEPH R. CALLENS
9736 ELLIS AVE
FOUNTAIN VALLEY, CA 92708

Site 1 of 3 in cluster C

HIST UST **U001578372**
N/A

Relative:
Higher

Actual:
16 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000048322
Facility Type:	Other
Other Type:	FARMING
Contact Name:	JOSEPH CALLENS
Telephone:	7149621212
Owner Name:	JOSEPH R. CALLENS
Owner Address:	9736 E. ELLIS
Owner City,St,Zip:	FOUNTAIN VALLEY, CA 02708
Total Tanks:	0004
Tank Num:	001
Container Num:	#2
Year Installed:	1962
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	#1
Year Installed:	1928
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	003
Container Num:	2-DIESEL
Year Installed:	1965
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor
Tank Num:	004
Container Num:	1-GAS
Year Installed:	1965
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor

C7 **JOSEPH CALLENS & SONS** **UST** **U003940223**
NNW **9736 ELLIS AVE** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.069 mi.
365 ft. **Site 2 of 3 in cluster C**

Relative: Higher
Actual: 16 ft.

UST:

Facility ID:	18543
Permitting Agency:	ORANGE COUNTY
Latitude:	33.694502
Longitude:	-117.956669

C8 **JOSEPH R CALLENS AND SONS RANCHES** **HIST UST** **S112842287**
NNW **9736 E ELLIS AVE** **HAZNET** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.069 mi.
365 ft. **Site 3 of 3 in cluster C**

Relative: Higher
Actual: 16 ft.

HIST UST:

File Number:	0002EA5E
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002EA5E.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

HAZNET:

Site Name:	JOSEPH R CALLENS AND SONS RANCHES
Year:	1997
GEPAID:	CAC000744824
Contact:	JOSEPH CALLENS/OWNER
Telephone:	7149621212
Mailing Name:	Not reported
Mailing Address:	9736 E ELLIS AVE
Mailing City,St,Zip:	FOUNTAIN VALLEY, CA 927080000
Gen County:	Orange
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Tons:	0.494
CA Waste Code:	221-Waste oil and mixed oil
Method:	R01-Recycler
Facility County:	Orange

A9
NE
< 1/8
0.073 mi.
386 ft.

Relative:
Higher

Actual:
14 ft.

CROWN CLEANERS
18583 BROOKHURST
FOUNTAIN VALLEY, CA 92708

Site 3 of 6 in cluster A

Database(s): RCRA-SQG, CPS-SLIC, CERS HAZ WASTE, Orange Co. Industrial Site, FINDS, ECHO, DRYCLEANERS, EMI, HAZNET, CERS

EDR ID Number: 1000686629
EPA ID Number: CAD983639683

RCRA-SQG:

Date form received by agency:	08/01/1996
Facility name:	CROWN CLEANERS
Facility address:	18583 BROOKHURST FOUNTAIN VALLEY, CA 92708
EPA ID:	CAD983639683
Contact:	JAGDISH TANEJA
Contact address:	18583 BROOKHURST FOUNTAIN VALLEY, CA 92708
Contact country:	US
Contact telephone:	714-968-9955
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	JAGDISH TANEJA
Owner/operator address:	18583 BROOKHURST FOUNTAIN VALLEY, CA 92708
Owner/operator country:	Not reported
Owner/operator telephone:	714-968-9955
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No

CROWN CLEANERS (Continued) **1000686629**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

CPS-SLIC:
Site Name: CROWN CLEANERS
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 05/29/2003
Global Id: SLT8R0643948
Lead Agency: ORANGE COUNTY
Lead Agency Case Number: Not reported
Latitude: 33.693438
Longitude: -117.952945
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: SLT8R064
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

CERS HAZ WASTE:
Site ID: 419243
CERS ID: 10539007
CERS Description: Hazardous Waste Generator

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-12-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine hazardous waste inspection. Consent to enter and inspect was given by Lupe Taneja. Observed the facility and inspected hazardous waste storage. The containers are stored closed and properly labeled. No evidence of hazardous waste spillage or runoff were observed. Manifests are available for review. Emergency plan is posted in the shop.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-02-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-04-2014

CROWN CLEANERS (Continued) **1000686629**

Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-10-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	RUR: PE change from 5111 to 5110
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-10-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	less than 55 gal
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-03-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Consent to inspect and take photos was granted by the , . A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date, and no photos were taken. The following were observed: 55-gallon drum of 55-gallon drum of The containers were observed properly stored and labeled. Hazardous waste disposal documents were reviewed. No hazardous waste violations were observed on this date. A copy of this report will be sent to crowncleanersfv@gmail.com
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	419243
Facility Name:	CROWN CLEANERS
Env Int Type Code:	HWG
Program ID:	10539007
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.693320
Longitude:	-117.954320

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported

CROWN CLEANERS (Continued) **1000686629**

Affiliation Address:	18583 Brookhurst Street
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Guadalupe Taneja
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Jagdish Taneja & Guadalupe Taneja
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 336-0006
Affiliation Type Desc:	Document Preparer
Entity Name:	Guadalupe Taneja
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Guadalupe Taneja
Entity Title:	Not reported
Affiliation Address:	18583 BROOKHURST ST
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Jagdish Taneja & Guadalupe Taneja
Entity Title:	Not reported
Affiliation Address:	18583 Brookhurst Street
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-9955

CROWN CLEANERS (Continued) **1000686629**

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Parent Corporation
Entity Name:	CROWN CLEANERS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Orange Co. Industrial Site:

Case ID:	13IC008
Record ID:	RO0003597
Current Status:	CLOSED 5/23/2013
Closure Type:	Voluntary Cleanup Program Termination
Released Chemical:	Not reported

Case ID:	96IC031
Record ID:	RO0000553
Current Status:	CLOSED 5/30/2003
Closure Type:	Closure certification issued
Released Chemical:	PERCHLOROETHYLENE; TRICHLOROETHYLENE

FINDS:

Registry ID: 110002878627

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

CROWN CLEANERS (Continued) **1000686629**

ECHO:
Envid: 1000686629
Registry ID: 110002878627
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002878627

DRYCLEAN SOUTH COAST:
Facility ID: 53226
Application Number: 145035
Permit Number: Not reported
Status: I
Representative Name: JOHN KELLEHER
Representative Telephone: 213 4221257
Permit Status: Not reported
BCAT Number: 000234
BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number: 04
CCAT Description: VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East: 411.70001221
UTM North: 3728.3000488

Facility ID: 53226
Application Number: 226493
Permit Number: D25943
Status: I
Representative Name: JOHN KELLEHER
Representative Telephone: 213 4221257
Permit Status: INACTIVE
BCAT Number: 000234
BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number: 04
CCAT Description: VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East: 411.70001221
UTM North: 3728.3000488

Facility ID: 53226
Application Number: 248571
Permit Number: D38727
Status: I
Representative Name: JOHN KELLEHER
Representative Telephone: 213 4221257
Permit Status: INACTIVE
BCAT Number: 000234
BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number: 04
CCAT Description: VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East: 411.70001221
UTM North: 3728.3000488

Facility ID: 103774
Application Number: 299545
Permit Number: D87457
Status: S
Representative Name: GREGORY K BROWN
Representative Telephone: 714 9689955
Permit Status: INACTIVE
BCAT Number: 000234

CROWN CLEANERS (Continued) **1000686629**

BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number: 04
CCAT Description: VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East: 411.70001221
UTM North: 3728.3000488

EMI:
Year: 1990
County Code: 30
Air Basin: SC
Facility ID: 53226
Air District Name: SC
SIC Code: 7216
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 1993
County Code: 30
Air Basin: SC
Facility ID: 53226
Air District Name: SC
SIC Code: 7216
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 1995
County Code: 30
Air Basin: SC
Facility ID: 53226
Air District Name: SC
SIC Code: 7216
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

CROWN CLEANERS (Continued) **1000686629**

HAZNET:

Site Name:	CROWN CLEANERS
Year:	2008
GEPAID:	CAD983639683
Contact:	JAGDISH TANEJA
Telephone:	7149689955
Mailing Name:	Not reported
Mailing Address:	18583 BROOKHURST ST
Mailing City,St,Zip:	FOUNTAIN VALLEY, CA 927086746
Gen County:	Orange
TSD EPA ID:	TXD077603371
TSD County:	99
Tons:	0.525
CA Waste Code:	343-Unspecified organic liquid mixture
Method:	H061-Fuel Blending Prior To Energy Recovery At Another Site
Facility County:	Orange

Site Name:	CROWN CLEANERS
Year:	2007
GEPAID:	CAD983639683
Contact:	JAGDISH TANEJA
Telephone:	7149689955
Mailing Name:	Not reported
Mailing Address:	18583 BROOKHURST ST
Mailing City,St,Zip:	FOUNTAIN VALLEY, CA 927086746
Gen County:	Orange
TSD EPA ID:	TXD077603371
TSD County:	99
Tons:	0.4
CA Waste Code:	343-Unspecified organic liquid mixture
Method:	H061-Fuel Blending Prior To Energy Recovery At Another Site
Facility County:	Orange

Site Name:	CROWN CLEANERS
Year:	2005
GEPAID:	CAD983639683
Contact:	JAGDISH TANEJA
Telephone:	7149689955
Mailing Name:	Not reported
Mailing Address:	18583 BROOKHURST ST
Mailing City,St,Zip:	FOUNTAIN VALLEY, CA 927086746
Gen County:	Orange
TSD EPA ID:	CAT000613893
TSD County:	Los Angeles
Tons:	1.6
CA Waste Code:	741-Liquids with halogenated organic compounds >= 1,000 Mg./L
Method:	H01-Transfer Station
Facility County:	Orange

Site Name:	CROWN CLEANERS
Year:	2005
GEPAID:	CAD983639683
Contact:	JAGDISH TANEJA
Telephone:	7149689955
Mailing Name:	Not reported
Mailing Address:	18583 BROOKHURST ST
Mailing City,St,Zip:	FOUNTAIN VALLEY, CA 927086746

CROWN CLEANERS (Continued) **1000686629**

Gen County: Orange
TSD EPA ID: CAT000613893
TSD County: Los Angeles
Tons: 0.475
CA Waste Code: 741-Liquids with halogenated organic compounds >= 1,000 Mg./L
Method: -
Facility County: Orange

Site Name: CROWN CLEANERS
Year: 2005
GEPAID: CAD983639683
Contact: JAGDISH TANEJA
Telephone: 7149689955
Mailing Name: Not reported
Mailing Address: 18583 BROOKHURST ST
Mailing City,St,Zip: FOUNTAIN VALLEY, CA 927086746
Gen County: Orange
TSD EPA ID: CAT000613893
TSD County: Los Angeles
Tons: Not reported
CA Waste Code: -
Method: H01-Transfer Station
Facility County: Orange

Click this hyperlink while viewing on your computer to access
26 additional CA_HAZNET: record(s) in the EDR Site Report.

CERS TANKS:
Site ID: 419243
CERS ID: 10539007
Site Name: CROWN CLEANERS
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-12-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine hazardous waste inspection. Consent to enter and inspect was given by Lupe Taneja. Observed the facility and inspected hazardous waste storage. The containers are stored closed and properly labeled. No evidence of hazardous waste spillage or runoff were observed. Manifests are available for review. Emergency plan is posted in the shop.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-02-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

CROWN CLEANERS (Continued) **1000686629**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-04-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	11-10-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	RUR: PE change from 5111 to 5110
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-10-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	less than 55 gal
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-03-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Consent to inspect and take photos was granted by the , . A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date, and no photos were taken. The following were observed: 55-gallon drum of 55-gallon drum of The containers were observed properly stored and labeled. Hazardous waste disposal documents were reviewed. No hazardous waste violations were observed on this date. A copy of this report will be sent to crowncleanersfv@gmail.com
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	419243
Facility Name:	CROWN CLEANERS
Env Int Type Code:	HWG
Program ID:	10539007
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.693320
Longitude:	-117.954320

Affiliation:

Affiliation Type Desc:	Facility Mailing Address

CROWN CLEANERS (Continued) **1000686629**

Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	18583 Brookhurst Street
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Guadalupe Taneja
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Jagdish Taneja & Guadalupe Taneja
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 336-0006
Affiliation Type Desc:	Document Preparer
Entity Name:	Guadalupe Taneja
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Guadalupe Taneja
Entity Title:	Not reported
Affiliation Address:	18583 BROOKHURST ST
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Jagdish Taneja & Guadalupe Taneja
Entity Title:	Not reported
Affiliation Address:	18583 Brookhurst Street
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708

CROWN CLEANERS (Continued) **1000686629**

Affiliation Phone:	(714) 968-9955
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	Parent Corporation
Entity Name:	CROWN CLEANERS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

A10 **CROWN CLEANERS** **RCRA-SQG** **1001959905**
NE **18583 BROOKHURST ST** **CPS-SLIC** **CAR000066050**
< 1/8 **FOUNTAIN VALLEY, CA 92708** **HAZNET**
0.073 mi. **CERS**
386 ft. **Site 4 of 6 in cluster A**

Relative:
Higher

Actual:
14 ft.

RCRA-SQG:

Date form received by agency:	07/23/2002
Facility name:	CROWN CLEANERS
Facility address:	18583 BROOKHURST ST FOUNTAIN VALLEY, CA 92708
EPA ID:	CAR000066050
Mailing address:	2200 W FLORIDA AVE STE 300 HEMET, CA 92545-3669
Contact:	HENRY AVILA
Contact address:	2200 W FLORIDA AVE STE 300 HEMET, CA 92545-3669
Contact country:	US
Contact telephone:	909-652-7771
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	DONAHUE SCHRIBER
Owner/operator address:	3501 JAMBOREE RD STE 300 NEWPORT BEACH, CA 92660
Owner/operator country:	Not reported
Owner/operator telephone:	949-854-2100

CROWN CLEANERS (Continued) **1001959905**

Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 07/23/2002
Site name: CROWN CLEANERS
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

SLIC REG 8:
Type: Soil
Facility Status: 3
Staff: MGC
Substance: TCE, PCE
Lead Agency: Regional Board
Location Code: FV-2
Thomas Bros Code: Not reported

CROWN CLEANERS (Continued) **1001959905**

HAZNET:

Site Name:	CROWN CLEANERS
Year:	2002
GEPAID:	CAR000066050
Contact:	Henry Avila
Telephone:	9096527771
Mailing Name:	Not reported
Mailing Address:	2200 W Florida Ave Ste 300
Mailing City,St,Zip:	Hemet, CA 925453669
Gen County:	Orange
TSD EPA ID:	CAT000646117
TSD County:	Kings
Tons:	25.284
CA Waste Code:	611-Contaminated soil from site clean-up
Method:	D80-Disposal, Land Fill
Facility County:	Orange

CERS TANKS:

Site ID:	217142
CERS ID:	SLT8R0643948
Site Name:	CROWN CLEANERS
CERS Description:	Cleanup Program Site

A11 **CROWN CLEANERS, LUPE AND JACK TANEJA** **DRYCLEANERS** **S121693855**
NE **18583 BROOKHURST ST** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.073 mi.
386 ft. **Site 5 of 6 in cluster A**

Relative:
Higher

Actual:
14 ft.

DRYCLEAN SOUTH COAST:

Facility ID:	110558
Application Number:	450501
Permit Number:	F79472
Status:	A
Representative Name:	GUADALUPE/JACK TANEJA
Representative Telephone:	714 9689955
Permit Status:	ACTIVE
BCAT Number:	000233
BCAT Description:	DRY CLEANING EQUIP PETROLEUM SOLVENT
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	411.54400635
UTM North:	3728.3110352

Facility ID:	110558
Application Number:	322127
Permit Number:	F4162
Status:	A
Representative Name:	GUADALUPE/JACK TANEJA
Representative Telephone:	714 9689955
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	411.54400635
UTM North:	3728.3110352

A12 **CROWN CLEANERS** **EDR Hist Cleaner** **1019965644**
NE **18583 BROOKHURST ST** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.073 mi.
386 ft. **Site 6 of 6 in cluster A**

Relative: EDR Hist Cleaner
Higher

Actual:
14 ft.

Year:	Name:	Type:
1994	CROWN CLEANERS	Drycleaning Plants, Except Rugs
1995	CROWN CLEANERS	Drycleaning Plants, Except Rugs
1997	CROWN CLEANERS	Drycleaning Plants, Except Rugs
1999	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2000	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2001	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2002	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2003	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2004	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2005	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2005	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2006	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2006	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2007	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2007	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2008	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2008	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2009	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2009	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2010	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2010	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2011	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2011	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2012	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2012	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2013	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2013	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2014	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2014	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC

B13 **AUTOZONE #4037** **CERS HAZ WASTE** **S113159267**
NNE **18533 BROOKHURST ST** **HAZNET** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708** **CERS**
0.097 mi.
510 ft. **Site 4 of 4 in cluster B**

Relative: CERS HAZ WASTE:
Higher

Actual:
15 ft.

Site ID:	386984
CERS ID:	10139715
CERS Description:	Hazardous Waste Generator

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-23-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Met with Elize Morin. Inspected used oil, drained used oil/fuel filters, absorbent, broken products/returns (flammables, reactives, corrosives, toxics). Drums were provided with a lid, stored in a secure manner and appear to be in good condition. The operator completes a maintenance

AUTOZONE #4037 (Continued) **S113159267**

inspection on the drums on a weekly basis. A Hazardous Waste label was noted on all drums with the required identification. Municipal dumpster area does not appear to contain any hazardous waste. Perimeter of facility inspected - did not observe any water runoff or staining at this time. Hazardous Waste Emergency Response plan was available for review. Manifests and bills of lading for all hazardous waste streams were reviewed today. Ensure all hazardous waste manifests/disposal documents are maintained on site for at least three years from the date of transport and are available for review during normal business [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-25-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-20-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS OW/BA x 2 - update store #
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-21-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fountain Valley Fire
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-13-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review: BA/OW pg
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-04-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP

AUTOZONE #4037 (Continued) **S113159267**

Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-12-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review: BA/OW page
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6000

Affiliation Type Desc: Environmental Contact
Entity Name: Andrew Beaven
Entity Title: Not reported
Affiliation Address: Dept 8190, 123 South Front Street
Affiliation City: Memphis
Affiliation State: TN
Affiliation Country: Not reported
Affiliation Zip: 38103
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Autozone
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (714) 965-4083

Affiliation Type Desc: Parent Corporation
Entity Name: Auto Zone
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Deborah Williams
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported

AUTOZONE #4037 (Continued) **S113159267**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	Dept 8190, 123 South Front St
Affiliation City:	MEMPHIS
Affiliation State:	TN
Affiliation Country:	Not reported
Affiliation Zip:	38103
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	AutoZone Inc
Entity Title:	Not reported
Affiliation Address:	123 S SOUTH FRONT ST
Affiliation City:	MEMPHIS
Affiliation State:	TN
Affiliation Country:	United States
Affiliation Zip:	38103
Affiliation Phone:	(901) 495-6500
Affiliation Type Desc:	Property Owner
Entity Name:	Donahue Schriber Realty Group LP
Entity Title:	Not reported
Affiliation Address:	200 East Baker St., Suite 100
Affiliation City:	Costa Mesa
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92626
Affiliation Phone:	(714) 966-3201
Affiliation Type Desc:	Identification Signer
Entity Name:	Deborah Williams
Entity Title:	Environmental Coordinator
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

HAZNET:

Site Name:	AUTOZONE #4037
Year:	2017
GEPAID:	CAL000355048
Contact:	BRYAN BLAIR
Telephone:	9014957217
Mailing Name:	Not reported
Mailing Address:	DEPT 8190, 123 S FRONT ST
Mailing City,St,Zip:	MEMPHIS, TN 381033607
Gen County:	Orange
TSD EPA ID:	CAD044429835

AUTOZONE #4037 (Continued) **S113159267**

TSD County: Los Angeles
Tons: 0.34
CA Waste Code: 352-Other organic solids
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Site Name: AUTOZONE #4037
Year: 2016
GEPAID: CAL000355048
Contact: BRYAN BLAIR
Telephone: 9014957217
Mailing Name: Not reported
Mailing Address: 123 S FRONT ST
Mailing City,St,Zip: MEMPHIS, TN 381033607
Gen County: Orange
TSD EPA ID: CAD044429835
TSD County: Los Angeles
Tons: 0.24
CA Waste Code: 352-Other organic solids
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Site Name: AUTOZONE #4037
Year: 2015
GEPAID: CAL000355048
Contact: BRYAN BLAIR
Telephone: 9014957217
Mailing Name: Not reported
Mailing Address: 123 S FRONT ST
Mailing City,St,Zip: MEMPHIS, TN 381033607
Gen County: Orange
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Tons: 0.014
CA Waste Code: 331-Off-specification, aged or surplus organics
Method: H061-Fuel Blending Prior To Energy Recovery At Another Site
Facility County: Orange

Site Name: AUTOZONE #4037
Year: 2015
GEPAID: CAL000355048
Contact: BRYAN BLAIR
Telephone: 9014957217
Mailing Name: Not reported
Mailing Address: 123 S FRONT ST
Mailing City,St,Zip: MEMPHIS, TN 381033607
Gen County: Orange
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Tons: 0.0185
CA Waste Code: 214-Unspecified solvent mixture
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

AUTOZONE #4037 (Continued) **S113159267**

Site Name:	AUTOZONE #4037
Year:	2015
GEPAID:	CAL000355048
Contact:	BRYAN BLAIR
Telephone:	9014957217
Mailing Name:	Not reported
Mailing Address:	123 S FRONT ST
Mailing City,St,Zip:	MEMPHIS, TN 381033607
Gen County:	Orange
TSD EPA ID:	CAD044429835
TSD County:	Los Angeles
Tons:	0.335
CA Waste Code:	352-Other organic solids
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Orange

Click this hyperlink while viewing on your computer to access
11 additional CA_HAZNET: record(s) in the EDR Site Report.

CERS TANKS:

Site ID:	386984
CERS ID:	10139715
Site Name:	AUTOZONE #4037
CERS Description:	Chemical Storage Facilities

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-23-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Met with Elize Morin. Inspected used oil, drained used oil/fuel filters, absorbent, broken products/returns (flammables, reactives, corrosives, toxics). Drums were provided with a lid, stored in a secure manner and appear to be in good condition. The operator completes a maintenance inspection on the drums on a weekly basis. A Hazardous Waste label was noted on all drums with the required identification. Municipal dumpster area does not appear to contain any hazardous waste. Perimeter of facility inspected - did not observe any water runoff or staining at this time. Hazardous Waste Emergency Response plan was available for review. Manifests and bills of lading for all hazardous waste streams were reviewed today. Ensure all hazardous waste manifests/disposal documents are maintained on site for at least three years from the date of transport and are available for review during normal business [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-25-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HW

AUTOZONE #4037 (Continued) **S113159267**

Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-20-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS OW/BA x 2 - update store #
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-21-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fountain Valley Fire
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-13-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review: BA/OW pg
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-04-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-12-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review: BA/OW page
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6000

AUTOZONE #4037 (Continued) **S113159267**

Affiliation Type Desc:	Environmental Contact
Entity Name:	Andrew Beaven
Entity Title:	Not reported
Affiliation Address:	Dept 8190, 123 South Front Street
Affiliation City:	Memphis
Affiliation State:	TN
Affiliation Country:	Not reported
Affiliation Zip:	38103
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Autozone
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 965-4083

Affiliation Type Desc:	Parent Corporation
Entity Name:	Auto Zone
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Deborah Williams
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	Dept 8190, 123 South Front St
Affiliation City:	MEMPHIS
Affiliation State:	TN
Affiliation Country:	Not reported
Affiliation Zip:	38103
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	AutoZone Inc
Entity Title:	Not reported
Affiliation Address:	123 S SOUTH FRONT ST
Affiliation City:	MEMPHIS
Affiliation State:	TN
Affiliation Country:	United States

AUTOZONE #4037 (Continued) **S113159267**

Affiliation Zip:	38103
Affiliation Phone:	(901) 495-6500
Affiliation Type Desc:	Property Owner
Entity Name:	Donahue Schriber Realty Group LP
Entity Title:	Not reported
Affiliation Address:	200 East Baker St., Suite 100
Affiliation City:	Costa Mesa
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92626
Affiliation Phone:	(714) 966-3201
Affiliation Type Desc:	Identification Signer
Entity Name:	Deborah Williams
Entity Title:	Environmental Coordinator
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

D14 **EUROPEAN DRY CLEANERS** **DRYCLEANERS** **S103962632**
SE **18834 BROOKHURST ST** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.098 mi.
515 ft. **Site 1 of 8 in cluster D**

Relative: **Higher**

Actual: **14 ft.**

DRYCLEANERS:

EPA Id:	CAL000289168
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	12/16/2004
Facility Active:	No
Inactive Date:	06/30/2005
Facility Addr2:	Not reported
Owner Name:	ERIC ALVAREZ
Owner Address:	18834 BROOKHURST ST
Owner Address 2:	Not reported
Owner Telephone:	7149652477
Contact Name:	ANGELA POGOSIAN
Contact Address:	18834 BROOKHURST ST
Contact Address 2:	Not reported
Contact Telephone:	7149652477
Mailing Name:	Not reported
Mailing Address 1:	18834 BROOKHURST ST
Mailing Address 2:	Not reported
Mailing City:	FOUNTAIN VALLEY
Mailing State:	CA
Mailing Zip:	92708
Owner Fax:	Not reported
Region Code:	4
EPA Id:	CAL000295367

EUROPEAN DRY CLEANERS (Continued) **S103962632**

NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	06/17/2005
Facility Active:	No
Inactive Date:	06/30/2006
Facility Addr2:	Not reported
Owner Name:	JAVIER MORALES
Owner Address:	1638 W BROOK ST
Owner Address 2:	Not reported
Owner Telephone:	7146676837
Contact Name:	TERRY MORALES
Contact Address:	2002 N PONDEROSA #224
Contact Address 2:	Not reported
Contact Telephone:	7145852473
Mailing Name:	Not reported
Mailing Address 1:	18834 BROOKHURST ST
Mailing Address 2:	Not reported
Mailing City:	FOUNTAIN VALLEY
Mailing State:	CA
Mailing Zip:	927087304
Owner Fax:	Not reported
Region Code:	4

D15 **TAYLOR'S CLEANERS** **DRYCLEANERS** **S121697850**
SE **18834 BROOKHURST ST** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA**
0.098 mi.
515 ft. **Site 2 of 8 in cluster D**

Relative: **Higher**
Actual: **14 ft.**

DRYCLEAN SOUTH COAST:

Facility ID:	44102
Application Number:	122504
Permit Number:	M40457
Status:	S
Representative Name:	JAMES TAYLOR
Representative Telephone:	714 5814216
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	02
CCAT Description:	ADSORBER (DRY CLEANING) REGENERATIVE
UTM East:	0
UTM North:	0

D16 **ROYAL OAKS CLEANERS** **RCRA-SQG** **1000290870**
SE **18834 BROOKHURST** **FINDS** **CAD981619059**
< 1/8 **FOUNTAIN VALLEY, CA 92708** **ECHO**
0.098 mi.
515 ft. **Site 3 of 8 in cluster D**

Relative: **Higher**
Actual: **14 ft.**

RCRA-SQG:

Date form received by agency:	06/07/1994
Facility name:	ROYAL OAKS CLEANERS
Facility address:	18834 BROOKHURST

ROYAL OAKS CLEANERS (Continued) **1000290870**

FOUNTAIN VALLEY, CA 92708
EPA ID: CAD981619059
Mailing address: BROOKHURST
FOUNTAIN VALLEY, CA 92708
Contact: NABIL CAPTAN
Contact address: 18834 BROOKHURST
FOUNTAIN VALLEY, CA 92708
Contact country: US
Contact telephone: 714-965-2477
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NABIL CAPTAN
Owner/operator address: 18834 BROOKHURST ST
FOUNTAIN VALLEY, CA 92708
Owner/operator country: Not reported
Owner/operator telephone: 714-965-2477
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002726088

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource

ROYAL OAKS CLEANERS (Continued) **1000290870**

Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000290870
Registry ID:	110002726088
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002726088

D17 **MAGBUAL'S CLEANERS** **DRYCLEANERS** **S121698711**
SE **18834 BROOKHURST ST** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.098 mi.
515 ft. **Site 4 of 8 in cluster D**

Relative:
Higher

Actual:
14 ft.

DRYCLEAN SOUTH COAST:

Facility ID:	58586
Application Number:	161372
Permit Number:	M61296
Status:	S
Representative Name:	AMANTE MAGBUAL
Representative Telephone:	714 8638386
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	411.70001221
UTM North:	3727.8999023

Facility ID:	58586
Application Number:	169590
Permit Number:	D01394
Status:	S
Representative Name:	AMANTE MAGBUAL
Representative Telephone:	714 8638386
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	411.70001221
UTM North:	3727.8999023

D18 **CRYSTAL CLEAR CLEANERS** **DRYCLEANERS** **S121693937**
SE **18834 BROOKHURST** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92704**
0.098 mi.
515 ft. **Site 5 of 8 in cluster D**

Relative: DRYCLEAN SOUTH COAST:
Higher

Facility ID:	112498
Application Number:	329536
Permit Number:	F10163
Status:	A
Representative Name:	BILL ALVAREZ
Representative Telephone:	714 9652477
Permit Status:	INACT_NR
BCAT Number:	000601
BCAT Description:	DRY CLEANING, DRY-TO-DRY NON-VENT, PERC
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	411.57000732
UTM North:	3727.8930664

Actual:
14 ft.

Facility ID:	112498
Application Number:	364324
Permit Number:	F30762
Status:	A
Representative Name:	BILL ALVAREZ
Representative Telephone:	714 9652477
Permit Status:	INACT_NR
BCAT Number:	000603
BCAT Description:	DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	411.57000732
UTM North:	3727.8930664

D19 **EUROPEAN CLEANERS OF FOUNTAIN VALLEY** **DRYCLEANERS** **S121695638**
SE **18834 BROOKHURST ST** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.098 mi.
515 ft. **Site 6 of 8 in cluster D**

Relative: DRYCLEAN SOUTH COAST:
Higher

Facility ID:	143641
Application Number:	440472
Permit Number:	Not reported
Status:	O
Representative Name:	JAVIER MORALES
Representative Telephone:	714 9652477
Permit Status:	Not reported
BCAT Number:	000603
BCAT Description:	DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	0
UTM North:	0

Actual:
14 ft.

D20 **ELEGANTE CLEANERS** **EDR Hist Cleaner** **1018731793**
SE **18834 BROOKHURST ST** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.098 mi.
515 ft. **Site 7 of 8 in cluster D**

Relative: EDR Hist Cleaner
Higher

Actual:
14 ft.

Year:	Name:	Type:
1993	SUN CLEANERS	Drycleaning Plants, Except Rugs, NEC
1994	SUN CLEANERS	Drycleaning Plants, Except Rugs, NEC
1997	ELEGANTE CLEANERS	Garment Pressing And Cleaners' Agents
1998	ELEGANTE CLEANERS	Garment Pressing And Cleaners' Agents
1999	ELEGANTE CLEANERS	Garment Pressing And Cleaners' Agents
2000	ELEGANTE CLEANERS	Garment Pressing And Cleaners' Agents
2001	ELEGANTE CLEANERS	Garment Pressing And Cleaners' Agents
2002	ELEGANTE CLEANERS	Garment Pressing And Cleaners' Agents
2003	ELEGANTE CLEANERS	Garment Pressing And Cleaners' Agents
2004	EUROPEAN CLEANERS BY HI STEAM	Drycleaning Plants, Except Rugs
2004	ELEGANTE CLEANERS	Garment Pressing And Cleaners' Agents

D21 **ROYAL OAK CLEANER** **DRYCLEANERS** **S121693459**
SE **18834 BROOKHURST AVE** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.098 mi.
515 ft. **Site 8 of 8 in cluster D**

Relative: DRYCLEAN SOUTH COAST:
Higher

Actual:
14 ft.

Facility ID:	101886
Application Number:	303328
Permit Number:	D90927
Status:	O
Representative Name:	NABIL CAPTAN
Representative Telephone:	714 9652477
Permit Status:	INACT_NR
BCAT Number:	000601
BCAT Description:	DRY CLEANING, DRY-TO-DRY NON-VENT, PERC
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	0
UTM North:	0

Facility ID:	101886
Application Number:	294163
Permit Number:	D84308
Status:	O
Representative Name:	NABIL CAPTAN
Representative Telephone:	714 9652477
Permit Status:	INACTIVE
BCAT Number:	000604
BCAT Description:	DRY CLEANING, DRY-TO-DRY, CONVERTED PERC
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	0
UTM North:	0

E22
NE
1/8-1/4
0.140 mi.
741 ft.

ARCO FACILITY NO 09743
18520 BROOKHURST ST
FOUNTAIN VALLEY, CA 92708

Site 1 of 12 in cluster E

Database(s): RCRA-SQG, HIST UST, FINDS, ECHO

EDR ID Number: 1000252478
EPA ID Number: CAD981963754

Relative:
Higher

Actual:
15 ft.

RCRA-SQG:

Date form received by agency:	07/15/2002
Facility name:	ARCO FACILITY NO 09743
Facility address:	18520 BROOKHURST ST FOUNTAIN VALLEY, CA 92708
EPA ID:	CAD981963754
Mailing address:	P O BOX 6038 ARTESIA, CA 90702-6038
Contact:	JACK OMAN
Contact address:	P O BOX 6038 ARTESIA, CA 90702-6038
Contact country:	US
Contact telephone:	714-690-2425
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	B P W COAST PRODUCTS LLC
Owner/operator address:	P O BOX 6038 ARTESIA, CA 90702
Owner/operator country:	Not reported
Owner/operator telephone:	714-690-2425
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

ARCO FACILITY NO 09743 (Continued) **1000252478**

Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/01/1996
Site name: ARCO FACILITY NO 09743
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

HIST UST:
File Number: 0002EF3B
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002EF3B.pdf
Region: STATE
Facility ID: 00000006156
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 2139239876
Owner Name: THRIFTY OIL CO.
Owner Address: 10000 LAKEWOOD BLVD.
Owner City,St,Zip: DOWNEY, CA 90240
Total Tanks: 0006

Tank Num: 001
Container Num: 383-1
Year Installed: 1981
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: .267
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 383-2

ARCO FACILITY NO 09743 (Continued) **1000252478**

Year Installed:	1966
Tank Capacity:	00008139
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	003
Container Num:	383-3
Year Installed:	1966
Tank Capacity:	00010164
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	004
Container Num:	383-7
Year Installed:	1966
Tank Capacity:	00008139
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	005
Container Num:	383-10
Year Installed:	Not reported
Tank Capacity:	00000280
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	12
Leak Detection:	Stock Inventor

Tank Num:	006
Container Num:	383-11
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Click here for Geo Tracker PDF:

FINDS:

Registry ID: 110002757062

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ARCO FACILITY NO 09743 (Continued) **1000252478**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000252478
Registry ID: 110002757062
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002757062

E23 **TESORO USA 63383** **RCRA NonGen / NLR** **1024834017**
NE **18520 BROOKHURST ST** **CAL000373929**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.140 mi.
741 ft. **Site 2 of 12 in cluster E**

Relative:
Higher

Actual:
15 ft.

RCRA NonGen / NLR:
Date form received by agency: 04/25/2012
Facility name: TESORO USA 63383
Facility address: 18520 BROOKHURST ST
FOUNTAIN VALLEY, CA 92708-6708
EPA ID: CAL000373929
Mailing address: 19100 RIDGEWOOD PKWY
SAN ANTONIO, TX 78259-0000
Contact: BRENDA RAMIREZ
Contact address: 19100 RIDGEWOOD PKWY
SAN ANTONIO, TX 78259
Contact country: Not reported
Contact telephone: 210-626-5153
Contact email: BRENDA.RAMIREZ@TSOCORP.COM
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: TESORO REFINING & MARKETING COMPANY
Owner/operator address: 19100 RIDGEWOOD PKWY
SAN ANTONIO, TX 78259
Owner/operator country: Not reported
Owner/operator telephone: 210-626-6153
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: BRENDA RAMIREZ
Owner/operator address: 19100 RIDGEWOOD PKWY
SAN ANTONIO, TX 78259
Owner/operator country: Not reported
Owner/operator telephone: 210-626-5153
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator

TESORO USA 63383 (Continued) **1024834017**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

E24 NE 1/8-1/4 0.140 mi. 741 ft. **TESORO (USA) 63383**
18520 BROOKHURST ST
FOUNTAIN VALLEY, CA 92708
Site 3 of 12 in cluster E

CERS HAZ WASTE **S113098017**
CERS TANKS **N/A**
HAZNET
CERS

Relative: Higher
Actual: 15 ft.

CERS HAZ WASTE:
Site ID: 160247
CERS ID: 10403803
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 160247
Site Name: TESORO (USA) 63383
Violation Date: 08-21-2014
Citation: 23 CCR 16 2636(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)
Violation Description: Failure to continuously monitor the interstitial space of the tank, piping and/or sumps sump such that the leak detection activates an audible/visual alarm when a leak is detected.
Violation Notes: Returned to compliance on 05/18/2015. The annulars sensors for the 91 and 87 aux tanks were determined to be non-operational during testing. They were replaced during the inspection and determined to be operational. This violation was corrected during the inspection. No further corrective action is required.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 160247
Site Name: TESORO (USA) 63383
Violation Date: 11-12-2013
Citation: 23 CCR 16 2666(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2666(c)
Violation Description: Failure of line leak detector to detect a leak and/or failure of audible and visual alarm.
Violation Notes: Returned to compliance on 11/12/2013. The 91-grade leak detector

TESORO (USA) 63383 (Continued) **S113098017**

initially failed testing on 9/11/13. The leak detector was repaired during the testing and determined to be operational. The violation was corrected during the inspection. No further action is required.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 05-15-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and ACCEPTED CERS ID#10403803 Facility Information and UST submittals dated 3/30/17.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-20-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: SB 989 test notification for 8-23
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-08-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Monitor cert notification
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-28-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received Secondary Containment Testing Report Form dated 8/23/17. The results indicate all sumps, tank annulars, piping secondaries and UDCs PASSED. A copy of this report will be sent to Burke.D.Albelda@tsocorp.com
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-11-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Accepted UST documents in CERS
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

TESORO (USA) 63383 (Continued) **S113098017**

Eval General Type:	Other/Unknown
Eval Date:	05-18-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Fix violation status in EC (close > open for previously corrected violations)
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-20-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Consent to inspect and take photos was granted by the assistant manager, Jeanne Strickler. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster area, and no photos were taken. The following were observed: 55-gallon drum of liquid with fuel 55-gallon drum of solids with fuel The containers were observed properly stored and labeled. Hazardous waste disposal documents were reviewed. No hazardous waste violations were observed on this date. A copy of this report will be sent to Albelda, Burke D <Burke.D.Albelda@tsocorp.com>
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-30-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification for 7-20
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-13-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Provide emergency shut off sign
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-02-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Innactive
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-22-2015

TESORO (USA) 63383 (Continued) **S113098017**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-01-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine UST inspection during the annual monitoring system certification. Aaron Medina of Fastech provided the following valid credentials: Veeder-Root, ICC, VMI. The manager, Nicole Foltz was also present during this inspection. There are three 12,000-gallon USTs onsite: 87 main, 87 secondary, 91. PLLDs are installed on the 87 main and 91 product lines. Overfill prevention is provided by ATGs and an outside annunciator. There are VR-420 sensors in the dry annulars. The fill sumps, STP sumps and all four UDCs have VR-208 sensors installed. The UST system is monitored by a Veeder-Root TLS-350R panel. The following documents were reviewed: Permit Monitor Cert, SB989 DO inspections, DO Training 7/6/16 Owner/Operator Agreement Monitoring Plan, Response Plan No UST violations were observed on this date. A copy of this report will be sent to Burke.D.Albelda@tsocorp.com
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-11-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine hazardous waste inspection. Observed the facility and inspected hazardous waste storage. The containers are stored closed and properly labeled. No evidence of hazardous waste spillage or runoff was observed. Manifests and emergency plan are available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-06-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received Monitoring System Certification and Site Map dated 7/12/17 for the testing of one VR-420 sensor in the 87 auxiliary annular. The results indicate the sensor PASSED. A copy of this report will be sent to Burke.D.Albelda@tsocorp.com
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-12-2013
Violations Found:	Yes

TESORO (USA) 63383 (Continued) **S113098017**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received the following documents: Monitoring system certification dated 9/11/13 Spill bucket test (visual) report dated 9/11/13 Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-12-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review. NOT ACCEPTED. Expired CFO letter.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-15-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST documents accepted in CERS. CFR valid from 3/27/15-3/28/16 Belshire remains DO Revised facility diagram and leak response plan received Owner Operator agreement submitted (operator Seung Kim, owner Tesoro)
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-12-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor certification notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-21-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for routine UST inspection, monitoring system certification, and spill bucket testing. The facility has three double-walled tanks monitored by a Veeder Root system monitoring system. The monitoring panel reads ?all functions normal.? Positive shutdown and fail safe programming was verified. The in-tank probes are used for overfill prevention. The sensors in the tank annulars, turbine sumps, fill sumps, and UDCs all shutdown the turbines when submerged in fuel. The annulars sensors for the 91 and 87 aux tanks were determined to be non-operational during testing. They were replaced during the inspection and determined to be operational. The electronic line leak detectors were tested with a simulated 3 gph test and were determined to be operational. The in-tank probes are used for overfill prevention. All three probes triggered an audible and visual alarm when positioned at 90% tank capacity. Spill buckets were visually tested for 30 [Truncated]

TESORO (USA) 63383 (Continued) **S113098017**

Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-04-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received email from Burke Albelda indicating there was an onsite spill (approx 4 gallons, did not leave site) that had been reported to OES. Informed Burke that a URR is required.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-21-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Accepted UST documents in CERS. DO = Belshire personnel CFR is dated 3/22/16
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-01-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-09-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	An on-site inspection was conducted this date to witness the annual monitoring system certification. Jim Simeone (Fastech) conducted the monitoring system certification and provided current Veeder-Root and ICC certifications. This facility contains: 3 - USTs (91, 87 aux, 87 main) Monitor system is a Veeder-Root monitor panel and reads all functions normal. Overfill protection provided by audible/visual alarms. Sensors were observed positioned so as to initiate alarms at the earliest point possible. Sensors were re-positioned in a true vertical position upon installation after testing. Alarm history and setup tape reviewed while on site. The following were tested: - Sensors, initiated positive shutdown to the turbines when tested in water - ?Fail Safe? and ?Positive Shutdown? - Overfill protection (ATGs set at 90% capacity) for an external audible and visual alarm - Spill buckets using a visual hydrostatic test - Leak detectors. PLLDs reviewed onsite: - [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

TESORO (USA) 63383 (Continued) **S113098017**

Eval General Type:	Other/Unknown
Eval Date:	07-15-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor Certification Notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-17-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency received the monitoring system certification test report, site map, and spill bucket test report for a test conducted 7/9/18. The following components PASSED testing: - Tank Annular Sensors (3) - STP Sump Sensors (3) - Fill Sump Sensors (3) - UDC Sensors (4) - Line Leak Detectors - Audible/Visual Overfill Alarm - Fail Safe/Sensor Out - Spill Buckets Visual Test
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-20-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine UST inspection during the annual monitoring system certification. Cliff Gonzales of Fastech provided the following valid certifications: ICC, Veeder-Root, VMI. The assistant manager, Jeanne Strickler was also present during this inspection. There are three 12,000-gallon, double-walled tanks at this site: 87 main, 87 auxiliary, 91. VR-420 sensors are in use in the dry annulars. Overfill prevention is provided by ATGs connected to an outside annunciator. VR-208 sensors are in use in the fill and STP sumps of each tank, and in all 4 UDCs. Veeder-Root electronic leak detectors (PLLDs) are in use on the product lines (87 main and auxiliary share a single leak detector. The UST system is monitored by a Veeder-Root TLS-350R panel. All sump and annular sensors triggered positive shutdown of their respective turbines when immersed in water. Fail Safe and Sensor Out were demonstrated operational. The spill buckets were tested hydrostatically for one [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-05-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SB989 Notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-11-2015

TESORO (USA) 63383 (Continued) **S113098017**

Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine UST inspection, monitoring system certification, and spill bucket testing. The facility has three double-walled tanks monitored by a Veeder Root system monitoring system. The monitoring panel reads ?all functions normal.? Positive shutdown and fail safe programming was verified. The in-tank probes are used for overfill prevention. The sensors in the tank annulars, turbine sumps, fill sumps, and UDCs all shutdown the turbines when submerged in fuel. The sensor in the 87A fill sump was not functional. It was replaced during the inspection. The electronic line leak detectors were tested with a simulated 3 gph test and were determined to be operational. The in-tank probes are used for overfill prevention. All three probes triggered an audible and visual alarm when positioned at 90% tank capacity. Spill buckets were tested after inspector departure. Testing was conducted by Stephen Dombrowski of FasTech. Technician certifications (VR, ICC) were [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-21-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for routine hazardous waste inspection. Observed the facility and inspected hazardous waste storage. The containers are stored closed and properly labeled. Manifests and emergency plan are available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-27-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS This Agency received the following documents: - Monitoring system certification dated 8/21/14 - Spill bucket test (visual) report dated 8/21/14 Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-11-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine underground storage tank inspection, monitoring system certification, and spill bucket testing. The facility has three double-walled tanks monitored by a Veeder-Root TLS-350 system. The monitor is operational for audible and visual alarms. Positive shutdown and fail safe programming were verified. The in-tank probes are used for overfill prevention and are programmed to alarm at 90% tank capacity. The sensors in the tank annulars, turbine sumps, fill sumps, and UDCs shutdown the turbines when submerged in liquid. In-tank probes and leak detectors were tested after inspector

TESORO (USA) 63383 (Continued) **S113098017**

departure. Testing was conducted by Robert Vargas of FasTech. Technician certifications (VR, ICC, VMI) were verified. Certification stickers were attached to all tested components. Please submit the test reports to this Agency within 30 days. The following documents are available for review: permit to operate, leak response plan, monitoring plan, test reports, maintenance [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-29-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This Agency received the secondary containment test report dated 9/16/14. The test report appears consistent with the OCHCA-approved testing procedure submitted by FasTech. The following components PASSED testing: - Tank annulars (3) - Secondary product piping (4- 87, 87aux, 87 siphon, 91) - Turbine sumps (3) - Fill sumps (3) - UDCs (4) No components failed testing.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-19-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST documents accepted in CERS: - DO Owner Statement: DO is Belshire personnel
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Coordinates:
Site ID: 160247
Facility Name: TESORO (USA) 63383
Env Int Type Code: HWG
Program ID: 10403803
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.692150
Longitude: -117.954020

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City: SAN ANTONIO
Affiliation State: TX
Affiliation Country: Not reported
Affiliation Zip: 78259
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner

TESORO (USA) 63383 (Continued) **S113098017**

Entity Name: Tesoro Refining & Marketing Company LLC
Entity Title: Not reported
Affiliation Address: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City: SAN ANTONIO
Affiliation State: TX
Affiliation Country: United States
Affiliation Zip: 78259
Affiliation Phone: (210) 626-6153

Affiliation Type Desc: UST Property Owner Name
Entity Name: THRIFTY OIL COMPANY
Entity Title: Not reported
Affiliation Address: 13116 IMPERIAL HIGHWAY
Affiliation City: SANTA FE SPRINGS
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90670
Affiliation Phone: (562) 921-3581

Affiliation Type Desc: Identification Signer
Entity Name: BURKE D. ALBELDA
Entity Title: ENVIRONMENTAL COMPLIANCE SUPERVISOR
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: UST Permit Applicant
Entity Name: BURKE D. ALBELDA
Entity Title: ENVIRONMENTAL COMPLIANCE SUPERVISOR
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (310) 869-4096

Affiliation Type Desc: UST Tank Owner
Entity Name: Thrifty Oil Company
Entity Title: Not reported
Affiliation Address: 13116 IMPERIAL HIGHWAY
Affiliation City: SANTA FE SPRINGS
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90670
Affiliation Phone: (562) 921-3581

Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611

TESORO (USA) 63383 (Continued) **S113098017**

Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	Environmental Contact
Entity Name:	BURKE D. ALBELDA
Entity Title:	Not reported
Affiliation Address:	400 OCEANGATE BLVD., SUITE 600
Affiliation City:	LONG BEACH
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90802
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Tesoro Refining & Marketing Company LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(210) 626-6153
Affiliation Type Desc:	Parent Corporation
Entity Name:	Tesoro Refining and Marketing Company LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	THRIFTY OIL COMPANY
Entity Title:	Not reported
Affiliation Address:	13116 IMPERIAL HIGHWAY
Affiliation City:	SANTA FE SPRINGS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90670
Affiliation Phone:	(562) 921-3581
Affiliation Type Desc:	UST Tank Operator
Entity Name:	R&M PACIFIC RIM INC (SEUNG KIM)
Entity Title:	Not reported
Affiliation Address:	18520 BROOKHURST ST
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(562) 402-8080
Affiliation Type Desc:	Document Preparer
Entity Name:	BELSHIRE ENVIRONMENTAL SERVICES, INC.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

TESORO (USA) 63383 (Continued) **S113098017**

Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

CERS TANKS:
Facility Name: TESORO (USA) 63383
Site ID: 160247
CERS ID: 10403803
CERS Description: Underground Storage Tank

Violations:
Site ID: 160247
Site Name: TESORO (USA) 63383
Violation Date: 08-21-2014
Citation: 23 CCR 16 2636(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)
Violation Description: Failure to continuously monitor the interstitial space of the tank, piping and/or sumps sump such that the leak detection activates an audible/visual alarm when a leak is detected.
Violation Notes: Returned to compliance on 05/18/2015. The annulars sensors for the 91 and 87 aux tanks were determined to be non-operational during testing. They were replaced during the inspection and determined to be operational. This violation was corrected during the inspection. No further corrective action is required.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 160247
Site Name: TESORO (USA) 63383
Violation Date: 11-12-2013
Citation: 23 CCR 16 2666(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2666(c)
Violation Description: Failure of line leak detector to detect a leak and/or failure of audible and visual alarm.
Violation Notes: Returned to compliance on 11/12/2013. The 91-grade leak detector initially failed testing on 9/11/13. The leak detector was repaired during the testing and determined to be operational. The violation was corrected during the inspection. No further action is required.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 05-15-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and ACCEPTED CERS ID#10403803 Facility Information and UST submittals dated 3/30/17.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown

TESORO (USA) 63383 (Continued) **S113098017**

Eval Date:	06-20-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SB 989 test notification for 8-23
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-08-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-28-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received Secondary Containment Testing Report Form dated 8/23/17. The results indicate all sumps, tank annulars, piping secondaries and UDCs PASSED. A copy of this report will be sent to Burke.D.Albelda@tsocorp.com
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-11-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Accepted UST documents in CERS
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-18-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Fix violation status in EC (close > open for previously corrected violations)
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-20-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Consent to inspect and take photos was granted by the assistant manager, Jeanne Strickler. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster area, and no photos were taken. The following were observed:

TESORO (USA) 63383 (Continued) **S113098017**

55-gallon drum of liquid with fuel 55-gallon drum of solids with fuel The containers were observed properly stored and labeled. Hazardous waste disposal documents were reviewed. No hazardous waste violations were observed on this date. A copy of this report will be sent to Albelda, Burke D <Burke.D.Albelda@tsocorp.com>
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-30-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Monitor cert notification for 7-20
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Provide emergency shut off sign
Eval Division: Fountain Valley Fire
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-02-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Innactive
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-22-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Monitor cert notification
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-01-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Onsite to conduct a routine UST inspection during the annual monitoring system certification. Aaron Medina of Fastech provided the following valid credentials: Veeder-Root, ICC, VMI. The manager, Nicole Foltz was also present during this inspection. There are three 12,000-gallon USTs onsite: 87 main, 87 secondary, 91. PLLDs are installed on the 87 main and 91 product lines. Overfill prevention is provided by ATGs and an outside annunciator. There are VR-420 sensors in the dry annulars. The fill sumps, STP sumps and all four UDCs have

TESORO (USA) 63383 (Continued) **S113098017**

VR-208 sensors installed. The UST system is monitored by a Veeder-Root TLS-350R panel. The following documents were reviewed: Permit Monitor Cert, SB989 DO inspections, DO Training 7/6/16 Owner/Operator Agreement Monitoring Plan, Response Plan No UST violations were observed on this date. A copy of this report will be sent to Burke.D.Albelda@tsocorp.com

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-11-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine hazardous waste inspection. Observed the facility and inspected hazardous waste storage. The containers are stored closed and properly labeled. No evidence of hazardous waste spillage or runoff was observed. Manifests and emergency plan are available for review.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-06-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received Monitoring System Certification and Site Map dated 7/12/17 for the testing of one VR-420 sensor in the 87 auxiliary annular. The results indicate the sensor PASSED. A copy of this report will be sent to Burke.D.Albelda@tsocorp.com
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-12-2013
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: This Agency has received the following documents: Monitoring system certification dated 9/11/13 Spill bucket test (visual) report dated 9/11/13 Thank you.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-12-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review. NOT ACCEPTED. Expired CFO letter.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-15-2015

TESORO (USA) 63383 (Continued) **S113098017**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST documents accepted in CERS. CFR valid from 3/27/15-3/28/16 Belshire remains DO Revised facility diagram and leak response plan received Owner Operator agreement submitted (operator Seung Kim, owner Tesoro)
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-12-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor certification notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-21-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for routine UST inspection, monitoring system certification, and spill bucket testing. The facility has three double-walled tanks monitored by a Veeder Root system monitoring system. The monitoring panel reads ?all functions normal.? Positive shutdown and fail safe programming was verified. The in-tank probes are used for overfill prevention. The sensors in the tank annulars, turbine sumps, fill sumps, and UDCs all shutdown the turbines when submerged in fuel. The annulars sensors for the 91 and 87 aux tanks were determined to be non-operational during testing. They were replaced during the inspection and determined to be operational. The electronic line leak detectors were tested with a simulated 3 gph test and were determined to be operational. The in-tank probes are used for overfill prevention. All three probes triggered an audible and visual alarm when positioned at 90% tank capacity. Spill buckets were visually tested for 30 [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-04-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received email from Burke Albelda indicating there was an onsite spill (approx 4 gallons, did not leave site) that had been reported to OES. Informed Burke that a URR is required.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-21-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency

TESORO (USA) 63383 (Continued) **S113098017**

Eval Notes:	Accepted UST documents in CERS. DO = Belshire personnel CFR is dated 3/22/16
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-01-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-09-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	An on-site inspection was conducted this date to witness the annual monitoring system certification. Jim Simeone (Fastech) conducted the monitoring system certification and provided current Veeder-Root and ICC certifications. This facility contains: 3 - USTs (91, 87 aux, 87 main) Monitor system is a Veeder-Root monitor panel and reads all functions normal. Overfill protection provided by audible/visual alarms. Sensors were observed positioned so as to initiate alarms at the earliest point possible. Sensors were re-positioned in a true vertical position upon installation after testing. Alarm history and setup tape reviewed while on site. The following were tested: - Sensors, initiated positive shutdown to the turbines when tested in water - ?Fail Safe? and ?Positive Shutdown? - Overfill protection (ATGs set at 90% capacity) for an external audible and visual alarm - Spill buckets using a visual hydrostatic test - Leak detectors. PLLDs reviewed onsite: - [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-15-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor Certification Notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-17-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency received the monitoring system certification test report, site map, and spill bucket test report for a test conducted 7/9/18. The following components PASSED testing: - Tank Annular Sensors (3) - STP Sump Sensors (3) - Fill Sump Sensors (3) - UDC Sensors (4) - Line Leak Detectors - Audible/Visual Overfill Alarm - Fail Safe/Sensor Out - Spill Buckets Visual Test

TESORO (USA) 63383 (Continued) **S113098017**

Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-20-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine UST inspection during the annual monitoring system certification. Cliff Gonzales of Fastech provided the following valid certifications: ICC, Veeder-Root, VMI. The assistant manager, Jeanne Strickler was also present during this inspection. There are three 12,000-gallon, double-walled tanks at this site: 87 main, 87 auxiliary, 91. VR-420 sensors are in use in the dry annulars. Overfill prevention is provided by ATGs connected to an outside annunciator. VR-208 sensors are in use in the fill and STP sumps of each tank, and in all 4 UDCs. Veeder-Root electronic leak detectors (PLLDs) are in use on the product lines (87 main and auxiliary share a single leak detector. The UST system is monitored by a Veeder-Root TLS-350R panel. All sump and annular sensors triggered positive shutdown of their respective turbines when immersed in water. Fail Safe and Sensor Out were demonstrated operational. The spill buckets were tested hydrostatically for one [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-05-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SB989 Notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-11-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine UST inspection, monitoring system certification, and spill bucket testing. The facility has three double-walled tanks monitored by a Veeder Root system monitoring system. The monitoring panel reads ?all functions normal.? Positive shutdown and fail safe programming was verified. The in-tank probes are used for overfill prevention. The sensors in the tank annulars, turbine sumps, fill sumps, and UDCs all shutdown the turbines when submerged in fuel. The sensor in the 87A fill sump was not functional. It was replaced during the inspection. The electronic line leak detectors were tested with a simulated 3 gph test and were determined to be operational. The in-tank probes are used for overfill prevention. All three probes triggered an audible and visual alarm when positioned at 90% tank capacity. Spill buckets were tested after inspector departure. Testing was conducted by Stephen Dombrowski of FasTech. Technician certifications (VR, ICC) were [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST

TESORO (USA) 63383 (Continued) **S113098017**

Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-21-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for routine hazardous waste inspection. Observed the facility and inspected hazardous waste storage. The containers are stored closed and properly labeled. Manifests and emergency plan are available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-27-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS This Agency received the following documents: - Monitoring system certification dated 8/21/14 - Spill bucket test (visual) report dated 8/21/14 Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-11-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine underground storage tank inspection, monitoring system certification, and spill bucket testing. The facility has three double-walled tanks monitored by a Veeder-Root TLS-350 system. The monitor is operational for audible and visual alarms. Positive shutdown and fail safe programming were verified. The in-tank probes are used for overfill prevention and are programmed to alarm at 90% tank capacity. The sensors in the tank annulars, turbine sumps, fill sumps, and UDCs shutdown the turbines when submerged in liquid. In-tank probes and leak detectors were tested after inspector departure. Testing was conducted by Robert Vargas of FasTech. Technician certifications (VR, ICC, VMI) were verified. Certification stickers were attached to all tested components. Please submit the test reports to this Agency within 30 days. The following documents are available for review: permit to operate, leak response plan, monitoring plan, test reports, maintenance [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-29-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency received the secondary containment test report dated 9/16/14. The test report appears consistent with the OCHCA-approved testing procedure submitted by FasTech. The following components PASSED testing: - Tank annulars (3) - Secondary product piping (4- 87, 87aux, 87 siphon, 91) - Turbine sumps (3) - Fill sumps (3) - UDCs (4)

TESORO (USA) 63383 (Continued) **S113098017**

No components failed testing.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-19-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST documents accepted in CERS: - DO Owner Statement: DO is Belshire personnel
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Coordinates:
Site ID: 160247
Facility Name: TESORO (USA) 63383
Env Int Type Code: HWG
Program ID: 10403803
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.692150
Longitude: -117.954020

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City: SAN ANTONIO
Affiliation State: TX
Affiliation Country: Not reported
Affiliation Zip: 78259
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Tesoro Refining & Marketing Company LLC
Entity Title: Not reported
Affiliation Address: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City: SAN ANTONIO
Affiliation State: TX
Affiliation Country: United States
Affiliation Zip: 78259
Affiliation Phone: (210) 626-6153

Affiliation Type Desc: UST Property Owner Name
Entity Name: THRIFTY OIL COMPANY
Entity Title: Not reported
Affiliation Address: 13116 IMPERIAL HIGHWAY
Affiliation City: SANTA FE SPRINGS
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90670
Affiliation Phone: (562) 921-3581

TESORO (USA) 63383 (Continued) **S113098017**

Affiliation Type Desc:	Identification Signer
Entity Name:	BURKE D. ALBELDA
Entity Title:	ENVIRONMENTAL COMPLIANCE SUPERVISOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	BURKE D. ALBELDA
Entity Title:	ENVIRONMENTAL COMPLIANCE SUPERVISOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(310) 869-4096

Affiliation Type Desc:	UST Tank Owner
Entity Name:	Thrifty Oil Company
Entity Title:	Not reported
Affiliation Address:	13116 IMPERIAL HIGHWAY
Affiliation City:	SANTA FE SPRINGS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90670
Affiliation Phone:	(562) 921-3581

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Environmental Contact
Entity Name:	BURKE D. ALBELDA
Entity Title:	Not reported
Affiliation Address:	400 OCEANGATE BLVD., SUITE 600
Affiliation City:	LONG BEACH
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90802
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Tesoro Refining & Marketing Company LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

TESORO (USA) 63383 (Continued) **S113098017**

Affiliation Zip: Not reported
Affiliation Phone: (210) 626-6153

Affiliation Type Desc: Parent Corporation
Entity Name: Tesoro Refining and Marketing Company LLC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: THRIFTY OIL COMPANY
Entity Title: Not reported
Affiliation Address: 13116 IMPERIAL HIGHWAY
Affiliation City: SANTA FE SPRINGS
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90670
Affiliation Phone: (562) 921-3581

Affiliation Type Desc: UST Tank Operator
Entity Name: R&M PACIFIC RIM INC (SEUNG KIM)
Entity Title: Not reported
Affiliation Address: 18520 BROOKHURST ST
Affiliation City: FOUNTAIN VALLEY
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92708
Affiliation Phone: (562) 402-8080

Affiliation Type Desc: Document Preparer
Entity Name: BELSHIRE ENVIRONMENTAL SERVICES, INC.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

HAZNET:
Site Name: BP WEST COAST PRODUCTS LLC 09743
Year: 2008
GEPAID: CAL000187293
Contact: Waste Specialist
Telephone: 7146703958
Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: CAD028409019
TSD County: Los Angeles
Tons: 0.0084

TESORO (USA) 63383 (Continued) **S113098017**

CA Waste Code: 135-Unspecified aqueous solution
Method: H135-Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Facility County: Orange

Site Name: BP WEST COAST PRODUCTS LLC 09743
Year: 2004
GEPAID: CAL000187293
Contact: Waste Specialist
Telephone: 7146703958
Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 0.042
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: R01-Recycler
Facility County: Orange

Site Name: BP WEST COAST PRODUCTS LLC 09743
Year: 2004
GEPAID: CAL000187293
Contact: Waste Specialist
Telephone: 7146703958
Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Tons: 0.175
CA Waste Code: 352-Other organic solids
Method: H01-Transfer Station
Facility County: Orange

Site Name: BP WEST COAST PRODUCTS LLC 09743
Year: 2001
GEPAID: CAL000187293
Contact: Waste Specialist
Telephone: 7146703958
Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 9.702
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: -
Facility County: Orange

Site Name: BP WEST COAST PRODUCTS LLC 09743
Year: 2001
GEPAID: CAL000187293
Contact: Waste Specialist

TESORO (USA) 63383 (Continued) **S113098017**

Telephone: 7146703958
Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 4.116
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: R01-Recycler
Facility County: Orange

Click this hyperlink while viewing on your computer to access
4 additional CA_HAZNET: record(s) in the EDR Site Report.

CERS TANKS:
Site ID: 160247
CERS ID: 10403803
Site Name: TESORO (USA) 63383
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 160247
Site Name: TESORO (USA) 63383
Violation Date: 08-21-2014
Citation: 23 CCR 16 2636(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)
Violation Description: Failure to continuously monitor the interstitial space of the tank, piping and/or sumps sump such that the leak detection activates an audible/visual alarm when a leak is detected.
Violation Notes: Returned to compliance on 05/18/2015. The annulars sensors for the 91 and 87 aux tanks were determined to be non-operational during testing. They were replaced during the inspection and determined to be operational. This violation was corrected during the inspection. No further corrective action is required.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 160247
Site Name: TESORO (USA) 63383
Violation Date: 11-12-2013
Citation: 23 CCR 16 2666(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2666(c)
Violation Description: Failure of line leak detector to detect a leak and/or failure of audible and visual alarm.
Violation Notes: Returned to compliance on 11/12/2013. The 91-grade leak detector initially failed testing on 9/11/13. The leak detector was repaired during the testing and determined to be operational. The violation was corrected during the inspection. No further action is required.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 05-15-2017

TESORO (USA) 63383 (Continued) **S113098017**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed and ACCEPTED CERS ID#10403803 Facility Information and UST submittals dated 3/30/17.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-20-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SB 989 test notification for 8-23
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-08-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-28-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received Secondary Containment Testing Report Form dated 8/23/17. The results indicate all sumps, tank annulars, piping secondaries and UDCs PASSED. A copy of this report will be sent to Burke.D.Albelda@tsocorp.com
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-11-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Accepted UST documents in CERS
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-18-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Fix violation status in EC (close > open for previously corrected violations)
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

TESORO (USA) 63383 (Continued) **S113098017**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-20-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Consent to inspect and take photos was granted by the assistant manager, Jeanne Strickler. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster area, and no photos were taken. The following were observed: 55-gallon drum of liquid with fuel 55-gallon drum of solids with fuel The containers were observed properly stored and labeled. Hazardous waste disposal documents were reviewed. No hazardous waste violations were observed on this date. A copy of this report will be sent to Albelda, Burke D <Burke.D.Albelda@tsocorp.com>
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	05-30-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification for 7-20
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-13-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Provide emergency shut off sign
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-02-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Innactive
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	07-22-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-01-2016
Violations Found:	No

TESORO (USA) 63383 (Continued) **S113098017**

Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine UST inspection during the annual monitoring system certification. Aaron Medina of Fastech provided the following valid credentials: Veeder-Root, ICC, VMI. The manager, Nicole Foltz was also present during this inspection. There are three 12,000-gallon USTs onsite: 87 main, 87 secondary, 91. PLLDs are installed on the 87 main and 91 product lines. Overfill prevention is provided by ATGs and an outside annunciator. There are VR-420 sensors in the dry annulars. The fill sumps, STP sumps and all four UDCs have VR-208 sensors installed. The UST system is monitored by a Veeder-Root TLS-350R panel. The following documents were reviewed: Permit Monitor Cert, SB989 DO inspections, DO Training 7/6/16 Owner/Operator Agreement Monitoring Plan, Response Plan No UST violations were observed on this date. A copy of this report will be sent to Burke.D.Albelda@tsocorp.com
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-11-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine hazardous waste inspection. Observed the facility and inspected hazardous waste storage. The containers are stored closed and properly labeled. No evidence of hazardous waste spillage or runoff was observed. Manifests and emergency plan are available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-06-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received Monitoring System Certification and Site Map dated 7/12/17 for the testing of one VR-420 sensor in the 87 auxiliary annular. The results indicate the sensor PASSED. A copy of this report will be sent to Burke.D.Albelda@tsocorp.com
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-12-2013
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received the following documents: Monitoring system certification dated 9/11/13 Spill bucket test (visual) report dated 9/11/13 Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-12-2018

TESORO (USA) 63383 (Continued) **S113098017**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review. NOT ACCEPTED. Expired CFO letter.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-15-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST documents accepted in CERS. CFR valid from 3/27/15-3/28/16 Belshire remains DO Revised facility diagram and leak response plan received Owner Operator agreement submitted (operator Seung Kim, owner Tesoro)
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-12-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor certification notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-21-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for routine UST inspection, monitoring system certification, and spill bucket testing. The facility has three double-walled tanks monitored by a Veeder Root system monitoring system. The monitoring panel reads ?all functions normal.? Positive shutdown and fail safe programming was verified. The in-tank probes are used for overfill prevention. The sensors in the tank annulars, turbine sumps, fill sumps, and UDCs all shutdown the turbines when submerged in fuel. The annulars sensors for the 91 and 87 aux tanks were determined to be non-operational during testing. They were replaced during the inspection and determined to be operational. The electronic line leak detectors were tested with a simulated 3 gph test and were determined to be operational. The in-tank probes are used for overfill prevention. All three probes triggered an audible and visual alarm when positioned at 90% tank capacity. Spill buckets were visually tested for 30 [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-04-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received email from Burke Albelda indicating there was an onsite spill (approx 4 gallons, did not leave site) that had been reported to OES.

TESORO (USA) 63383 (Continued) **S113098017**

	Informed Burke that a URR is required.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-21-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Accepted UST documents in CERS. DO = Belshire personnel CFR is dated 3/22/16
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-01-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-09-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	An on-site inspection was conducted this date to witness the annual monitoring system certification. Jim Simeone (Fastech) conducted the monitoring system certification and provided current Veeder-Root and ICC certifications. This facility contains: 3 - USTs (91, 87 aux, 87 main) Monitor system is a Veeder-Root monitor panel and reads all functions normal. Overfill protection provided by audible/visual alarms. Sensors were observed positioned so as to initiate alarms at the earliest point possible. Sensors were re-positioned in a true vertical position upon installation after testing. Alarm history and setup tape reviewed while on site. The following were tested: - Sensors, initiated positive shutdown to the turbines when tested in water - ?Fail Safe? and ?Positive Shutdown? - Overfill protection (ATGs set at 90% capacity) for an external audible and visual alarm - Spill buckets using a visual hydrostatic test - Leak detectors. PLLDs reviewed onsite: - [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-15-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor Certification Notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown

TESORO (USA) 63383 (Continued) **S113098017**

Eval Date:	07-17-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency received the monitoring system certification test report, site map, and spill bucket test report for a test conducted 7/9/18. The following components PASSED testing: - Tank Annular Sensors (3) - STP Sump Sensors (3) - Fill Sump Sensors (3) - UDC Sensors (4) - Line Leak Detectors - Audible/Visual Overfill Alarm - Fail Safe/Sensor Out - Spill Buckets Visual Test
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-20-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine UST inspection during the annual monitoring system certification. Cliff Gonzales of Fastech provided the following valid certifications: ICC, Veeder-Root, VMI. The assistant manager, Jeanne Strickler was also present during this inspection. There are three 12,000-gallon, double-walled tanks at this site: 87 main, 87 auxiliary, 91. VR-420 sensors are in use in the dry annulars. Overfill prevention is provided by ATGs connected to an outside annunciator. VR-208 sensors are in use in the fill and STP sumps of each tank, and in all 4 UDCs. Veeder-Root electronic leak detectors (PLLDs) are in use on the product lines (87 main and auxiliary share a single leak detector. The UST system is monitored by a Veeder-Root TLS-350R panel. All sump and annular sensors triggered positive shutdown of their respective turbines when immersed in water. Fail Safe and Sensor Out were demonstrated operational. The spill buckets were tested hydrostatically for one [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-05-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SB989 Notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-11-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine UST inspection, monitoring system certification, and spill bucket testing. The facility has three double-walled tanks monitored by a Veeder Root system monitoring system. The monitoring panel reads ?all functions normal.? Positive shutdown and fail safe programming was verified. The in-tank probes are used for overfill prevention. The sensors in the tank annulars, turbine sumps, fill sumps, and UDCs all shutdown the turbines when submerged in fuel. The sensor in the 87A fill sump was not functional. It was replaced during

TESORO (USA) 63383 (Continued) **S113098017**

the inspection. The electronic line leak detectors were tested with a simulated 3 gph test and were determined to be operational. The in-tank probes are used for overfill prevention. All three probes triggered an audible and visual alarm when positioned at 90% tank capacity. Spill buckets were tested after inspector departure. Testing was conducted by Stephen Dombrowski of FasTech. Technician certifications (VR, ICC) were [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-21-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS On site for routine hazardous waste inspection. Observed the facility and inspected hazardous waste storage. The containers are stored closed and properly labeled. Manifests and emergency plan are available for review.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-27-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: INSPECTOR COMMENTS This Agency received the following documents: - Monitoring system certification dated 8/21/14 - Spill bucket test (visual) report dated 8/21/14 Thank you.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-11-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine underground storage tank inspection, monitoring system certification, and spill bucket testing. The facility has three double-walled tanks monitored by a Veeder-Root TLS-350 system. The monitor is operational for audible and visual alarms. Positive shutdown and fail safe programming were verified. The in-tank probes are used for overfill prevention and are programmed to alarm at 90% tank capacity. The sensors in the tank annulars, turbine sumps, fill sumps, and UDCs shutdown the turbines when submerged in liquid. In-tank probes and leak detectors were tested after inspector departure. Testing was conducted by Robert Vargas of FasTech. Technician certifications (VR, ICC, VMI) were verified. Certification stickers were attached to all tested components. Please submit the test reports to this Agency within 30 days. The following documents are available for review: permit to operate, leak response plan, monitoring plan, test reports, maintenance [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

TESORO (USA) 63383 (Continued) **S113098017**

Eval General Type:	Other/Unknown
Eval Date:	09-29-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency received the secondary containment test report dated 9/16/14. The test report appears consistent with the OCHCA-approved testing procedure submitted by FasTech. The following components PASSED testing: - Tank annulars (3) - Secondary product piping (4- 87, 87aux, 87 siphon, 91) - Turbine sumps (3) - Fill sumps (3) - UDCs (4) No components failed testing.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	10-19-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST documents accepted in CERS: - DO Owner Statement: DO is Belshire personnel
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Coordinates:

Site ID:	160247
Facility Name:	TESORO (USA) 63383
Env Int Type Code:	HWG
Program ID:	10403803
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.692150
Longitude:	-117.954020

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City:	SAN ANTONIO
Affiliation State:	TX
Affiliation Country:	Not reported
Affiliation Zip:	78259
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Tesoro Refining & Marketing Company LLC
Entity Title:	Not reported
Affiliation Address:	19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City:	SAN ANTONIO
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	78259
Affiliation Phone:	(210) 626-6153

Affiliation Type Desc:	UST Property Owner Name

TESORO (USA) 63383 (Continued) **S113098017**

Entity Name:	THRIFTY OIL COMPANY
Entity Title:	Not reported
Affiliation Address:	13116 IMPERIAL HIGHWAY
Affiliation City:	SANTA FE SPRINGS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90670
Affiliation Phone:	(562) 921-3581
Affiliation Type Desc:	Identification Signer
Entity Name:	BURKE D. ALBELDA
Entity Title:	ENVIRONMENTAL COMPLIANCE SUPERVISOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	BURKE D. ALBELDA
Entity Title:	ENVIRONMENTAL COMPLIANCE SUPERVISOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(310) 869-4096
Affiliation Type Desc:	UST Tank Owner
Entity Name:	Thrifty Oil Company
Entity Title:	Not reported
Affiliation Address:	13116 IMPERIAL HIGHWAY
Affiliation City:	SANTA FE SPRINGS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90670
Affiliation Phone:	(562) 921-3581
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	Environmental Contact
Entity Name:	BURKE D. ALBELDA
Entity Title:	Not reported
Affiliation Address:	400 OCEANGATE BLVD., SUITE 600
Affiliation City:	LONG BEACH
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90802

TESORO (USA) 63383 (Continued) **S113098017**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Tesoro Refining & Marketing Company LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(210) 626-6153
Affiliation Type Desc:	Parent Corporation
Entity Name:	Tesoro Refining and Marketing Company LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	THRIFTY OIL COMPANY
Entity Title:	Not reported
Affiliation Address:	13116 IMPERIAL HIGHWAY
Affiliation City:	SANTA FE SPRINGS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90670
Affiliation Phone:	(562) 921-3581
Affiliation Type Desc:	UST Tank Operator
Entity Name:	R&M PACIFIC RIM INC (SEUNG KIM)
Entity Title:	Not reported
Affiliation Address:	18520 BROOKHURST ST
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(562) 402-8080
Affiliation Type Desc:	Document Preparer
Entity Name:	BELSHIRE ENVIRONMENTAL SERVICES, INC.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

E25 **THRIFTY OIL #383** **LUST** **S103950790**
NE **18520 BROOKHURST ST** **CHMIRS** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708** **HAZNET**
0.140 mi. **CERS**
741 ft. **Site 4 of 12 in cluster E**

Relative:
Higher

Actual:
15 ft.

LUST:

Lead Agency:	ORANGE COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900650
Global Id:	T0605900650
Latitude:	33.6934045
Longitude:	-117.954263
Status:	Completed - Case Closed
Status Date:	08/14/2013
Case Worker:	SR
RB Case Number:	083000824T
Local Agency:	ORANGE COUNTY LOP
File Location:	Local Agency Warehouse
Local Case Number:	87UT050
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline, MTBE / TBA / Other Fuel Oxygenates
Site History:	Please refer to recent Site Documents or Monitoring Reports in GeoTracker for site history. Orange County is not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants for the responsible party.

LUST:

Global Id:	T0605900650
Contact Type:	Local Agency Caseworker
Contact Name:	SHYAMALA RAJAGOPAL
Organization Name:	ORANGE COUNTY LOP
Address:	1241 E. DYER ROAD SUITE 120
City:	SANTA ANA
Email:	srajagopal@ochca.com
Phone Number:	7144336262

Global Id:	T0605900650
Contact Type:	Regional Board Caseworker
Contact Name:	VALERIE JAHN-BULL
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	valerie.jahn-bull@waterboards.ca.gov
Phone Number:	9517824903

LUST:

Global Id:	T0605900650
Action Type:	RESPONSE
Date:	04/18/2012
Action:	Clean Up Fund - 5-Year Review Summary

Global Id:	T0605900650
Action Type:	RESPONSE
Date:	06/21/2013
Action:	Request for Closure - Regulator Responded

Global Id:	T0605900650
Action Type:	ENFORCEMENT

THRIFTY OIL #383 (Continued) **S103950790**

Date: 10/07/2004
Action: Staff Letter

Global Id: T0605900650
Action Type: Other
Date: 03/04/1987
Action: Leak Reported

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 03/26/2009
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 04/28/2009
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 07/02/2009
Action: Staff Letter

Global Id: T0605900650
Action Type: REMEDIATION
Date: 06/15/1987
Action: Free Product Removal

Global Id: T0605900650
Action Type: REMEDIATION
Date: 06/15/1987
Action: Excavation

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 08/09/2013
Action: File Review - Closure

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 05/24/2011
Action: File review

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 02/17/2011
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 11/29/2012
Action: File review

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 03/26/2013
Action: State Water Board Closure Order

THRIFTY OIL #383 (Continued) **S103950790**

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 07/12/2013
Action: State Water Board Closure Order

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 06/28/2013
Action: File review

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 08/14/2013
Action: File Review - Closure

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 09/28/2012
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 03/26/2013
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 06/28/2013
Action: Email Correspondence

Global Id: T0605900650
Action Type: Other
Date: 03/04/1987
Action: Leak Discovery

Global Id: T0605900650
Action Type: REMEDIATION
Date: 01/16/2001
Action: Other (Use Description Field)

Global Id: T0605900650
Action Type: REMEDIATION
Date: 02/01/2003
Action: Excavation

Global Id: T0605900650
Action Type: REMEDIATION
Date: 04/07/2009
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0605900650
Action Type: RESPONSE
Date: 05/05/2010
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0605900650
Action Type: ENFORCEMENT

THRIFTY OIL #383 (Continued) **S103950790**

Date: 02/03/1997
Action: * Historical Enforcement

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 04/12/2005
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 11/01/2005
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 12/28/2004
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 05/01/2008
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 04/03/2008
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 04/04/2007
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 04/09/2007
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 08/20/2007
Action: Staff Letter

LUST:
Global Id: T0605900650
Status: Completed - Case Closed
Status Date: 08/14/2013

Global Id: T0605900650
Status: Open - Case Begin Date
Status Date: 03/04/1987

Global Id: T0605900650
Status: Open - Eligible for Closure
Status Date: 03/25/2013

Global Id: T0605900650

THRIFTY OIL #383 (Continued) **S103950790**

Status: Open - Remediation
Status Date: 12/27/2000

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 87UT050
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 08/14/2013
Record ID: RO0002022

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Remedial action (cleanup) Underway
Case Number:	083000824T
Local Case Num:	87UT050
Case Type:	Other ground water affected
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	LFOR
Funding:	Not reported
How Discovered:	Tank Test
How Stopped:	Close Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605900650
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	3/4/1987
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	12/27/2000
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	=
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.6934045
Longitude:	-117.954263
MTBE Date:	3/3/2003
Max MTBE GW:	1800
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1

THRIFTY OIL #383 (Continued) **S103950790**

MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	VJJ
Staff Initials:	JK
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

CHMIRS:

OES Incident Number:	15-0545
OES notification:	01/28/2015
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Service Station
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	PETROLEUM
Measure:	Gal(s)
Other:	Not reported
Date/Time:	900
Year:	2015

THRIFTY OIL #383 (Continued) **S103950790**

Agency:	Tesoro Refining and Marketing Co LLC
Incident Date:	01/28/2015
Admin Agency:	Orange County Emergency Management Division
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Gasoline
Quantity Released:	0.5
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	RP states that due to a pump nozzle malfunction caused the release. The release entered a sump drain that has an outlet to the street. Cleanup has been completes by a third party contract with 100% recovery of the release.
OES Incident Number:	15-0547
OES notification:	01/28/2015
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported

THRIFTY OIL #383 (Continued) **S103950790**

Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Merchant/Business
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	PETROLEUM
Measure:	Gal(s)
Other:	Not reported
Date/Time:	900
Year:	2015
Agency:	NRC
Incident Date:	01/28/2015
Admin Agency:	Orange County Emergency Management Division
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Gasoline
Quantity Released:	0.5
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	Per NRC: GASOLINE DISCHARGED FROM A FAULTY NOZZLE. ABSORBENTS WERE APPLIED AND 100% WAS RECOVERED.

HAZNET:

Site Name:	TESORO USA 63383
Year:	2017
GEPAID:	CAL000373929
Contact:	BRENDA RAMIREZ
Telephone:	2106265153
Mailing Name:	Not reported
Mailing Address:	19100 RIDGEWOOD PKWY
Mailing City,St,Zip:	SAN ANTONIO, TX 782590000
Gen County:	Orange
TSD EPA ID:	NVT330010000

THRIFTY OIL #383 (Continued) **S103950790**

TSD County: 99
Tons: 0.13
CA Waste Code: 352-Other organic solids
Method: H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Orange

Site Name: TESORO USA 63383
Year: 2017
GEPAID: CAL000373929
Contact: BRENDA RAMIREZ
Telephone: 2106265153
Mailing Name: Not reported
Mailing Address: 19100 RIDGEWOOD PKWY
Mailing City,St,Zip: SAN ANTONIO, TX 782590000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 0.483
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Orange

Site Name: TESORO USA 63383
Year: 2016
GEPAID: CAL000373929
Contact: JAMES BECK
Telephone: 5624956814
Mailing Name: Not reported
Mailing Address: 19100 RIDGEWOOD PKWY
Mailing City,St,Zip: SAN ANTONIO, TX 782590000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 0.063
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Orange

Site Name: TESORO USA 63383
Year: 2016
GEPAID: CAL000373929
Contact: JAMES BECK
Telephone: 5624956814
Mailing Name: Not reported
Mailing Address: 19100 RIDGEWOOD PKWY
Mailing City,St,Zip: SAN ANTONIO, TX 782590000
Gen County: Orange
TSD EPA ID: NVT330010000
TSD County: 99
Tons: 0.08
CA Waste Code: 352-Other organic solids
Method: H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Orange

THRIFTY OIL #383 (Continued) **S103950790**

Site Name:	TESORO USA 63383
Year:	2015
GEPAID:	CAL000373929
Contact:	ROSIE RANGEL
Telephone:	2106266564
Mailing Name:	Not reported
Mailing Address:	19100 RIDGEWOOD PKWY
Mailing City,St,Zip:	SAN ANTONIO, TX 782590000
Gen County:	Orange
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Tons:	0.0084
CA Waste Code:	134-Aqueous solution with total organic residues less than 10 percent
Method:	H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Orange

Click this hyperlink while viewing on your computer to access
6 additional CA_HAZNET: record(s) in the EDR Site Report.

CERS TANKS:

Site ID:	251257
CERS ID:	T0605900650
Site Name:	THRIFTY OIL #383
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	VALERIE JAHN-BULL - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9517824903

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	SHYAMALA RAJAGOPAL - ORANGE COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1241 E. DYER ROAD SUITE 120
Affiliation City:	SANTA ANA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7144336262

E26 **THRIFTY OIL STN #383** **UST** **U003913338**
NE **18520 BROOKHURST ST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.140 mi.
741 ft. **Site 5 of 12 in cluster E**

Relative:
Higher

Actual:
15 ft.

UST:
Facility ID: 5092
Permitting Agency: ORANGE COUNTY
Latitude: 33.6949859
Longitude: -117.9526541

Facility ID: FA0059621
Permitting Agency: Orange County Environmental Health
Latitude: 33.69215
Longitude: -117.95402

ORANGE CO. UST:
Facility ID: FA0059621

E27 **THRIFTY OIL STN #383** **SWEEPS UST** **S101631329**
NE **18520 BROOKHURST AVE** **CA FID UST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708** **HIST CORTESE**
0.140 mi.
741 ft. **Site 6 of 12 in cluster E**

Relative:
Higher

Actual:
15 ft.

SWEEPS UST:
Status: Active
Comp Number: 5092
Number: 9
Board Of Equalization: 44-016333
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-005092-000001
Tank Status: A
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 4

Status: Active
Comp Number: 5092
Number: 9
Board Of Equalization: 44-016333
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-005092-000002
Tank Status: A
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: OTHER

THRIFTY OIL STN #383 (Continued) **S101631329**

Number Of Tanks: Not reported

Status: Active
Comp Number: 5092
Number: 9
Board Of Equalization: 44-016333
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-005092-000003
Tank Status: A
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 5092
Number: 9
Board Of Equalization: 44-016333
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-005092-000004
Tank Status: A
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 30000776
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7149629232
Mail To: Not reported
Mailing Address: 10000 LAKEWOOD BLVD ATTN:
Mailing Address 2: Not reported
Mailing City,St,Zip: FOUNTAIN VALLEY 92708
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HIST CORTESE:

THRIFTY OIL STN #383 (Continued) **S101631329**

Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083000824T

E28 **THRIFTY OIL COMPANY** **UST** **U004271352**
NE **18520 BROOKHURST STREET** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA**
0.140 mi.
741 ft. **Site 7 of 12 in cluster E**

Relative: **Higher**
Actual: **15 ft.**

UST CLOSURE:
Claim Number: Claim No. 13541
Type: Closure Denials and Approved Orders
Deadline Date: 2013-03-15 00:00:00
Documents: Notice, Draft Exec Order | Final Closure Review Summary
Comments: No comments received
Comments URL: Not reported
Response: Not reported
Response URL: Not reported
Comments2: Not reported
Comments2 URL: Not reported
Response2: Not reported
Response2 URL: Not reported
Closure: WQO 2013-0005-UST (03/25/2013)
Closure URL: https://pubapps.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2013/wqo2013_0005ust.pdf
Uniform: x
Uniform URL: Not reported

F29 **NORGETOWN CLEANERS** **DRYCLEANERS** **1000234368**
SE **18888 BROOKHURST ST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.162 mi.
853 ft. **Site 1 of 2 in cluster F**

Relative: **Higher**
Actual: **17 ft.**

DRYCLEANERS:
EPA Id: CAD030576797
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 04/10/1987
Facility Active: No
Inactive Date: 04/16/2003
Facility Addr2: Not reported
Owner Name: JOO CHAN JI
Owner Address: 18888 BROOKHURST ST
Owner Address 2: Not reported
Owner Telephone: 7149683556
Contact Name: JOO CHAN JI
Contact Address: 18888 BROOKHURST ST
Contact Address 2: Not reported
Contact Telephone: 7149683556
Mailing Name: Not reported
Mailing Address 1: 18888 BROOKHURST ST

NORGETOWN CLEANERS (Continued) **1000234368**

Mailing Address 2: Not reported
Mailing City: FOUNTAIN VALLEY
Mailing State: CA
Mailing Zip: 927087304
Owner Fax: Not reported
Region Code: 4

EPA Id: CAL000271865
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 06/17/2003
Facility Active: No
Inactive Date: 06/30/2013
Facility Addr2: Not reported
Owner Name: JOO CHAN JI
Owner Address: 18888 BROOKHURST ST
Owner Address 2: Not reported
Owner Telephone: 7149683556
Contact Name: JOO CHAN JI
Contact Address: 18888 BROOKHURST ST
Contact Address 2: Not reported
Contact Telephone: 7149683556
Mailing Name: Not reported
Mailing Address 1: 18888 BROOKHURST ST
Mailing Address 2: Not reported
Mailing City: FOUNTAIN VALLEY
Mailing State: CA
Mailing Zip: 927087304
Owner Fax: 0000000000
Region Code: 4

DRYCLEAN SOUTH COAST:
Facility ID: 22500
Application Number: 08040A
Permit Number: S06432
Status: S
Representative Name: Not reported
Representative Telephone: Not reported
Permit Status: INACTIVE
BCAT Number: 000234
BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 0
UTM North: 0

Facility ID: 22500
Application Number: 157725
Permit Number: M58315
Status: S
Representative Name: Not reported
Representative Telephone: Not reported
Permit Status: INACT_NR
BCAT Number: 000234
BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE

NORGETOWN CLEANERS (Continued) **1000234368**

CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 0
UTM North: 0

Facility ID: 84260
Application Number: 247904
Permit Number: D42595
Status: S
Representative Name: CHUN SOO PYO
Representative Telephone: 714 9683556
Permit Status: INACTIVE
BCAT Number: 000234
BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 411.57000732
UTM North: 3727.8291016

Facility ID: 84260
Application Number: 363931
Permit Number: F25556
Status: S
Representative Name: CHUN SOO PYO
Representative Telephone: 714 9683556
Permit Status: INACTIVE
BCAT Number: 000601
BCAT Description: DRY CLEANING, DRY-TO-DRY NON-VENT, PERC
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 411.57000732
UTM North: 3727.8291016

Facility ID: 132069
Application Number: 466477
Permit Number: F88786
Status: A
Representative Name: JOO CHAN JI
Representative Telephone: 949 5861566
Permit Status: INACT_NR
BCAT Number: 000233
BCAT Description: DRY CLEANING EQUIP PETROLEUM SOLVENT
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 411.57000732
UTM North: 3727.8291016

Facility ID: 132069
Application Number: 399789
Permit Number: F51290
Status: A
Representative Name: JOO CHAN JI
Representative Telephone: 949 5861566
Permit Status: INACTIVE
BCAT Number: 000601
BCAT Description: DRY CLEANING, DRY-TO-DRY NON-VENT, PERC
CCAT Number: Not reported

NORGETOWN CLEANERS (Continued) **1000234368**

CCAT Description: Not reported
UTM East: 411.57000732
UTM North: 3727.8291016

F30 **FORMER RED DOOR CLEANERS** **ENVIROSTOR** **S113127096**
SE **18888 BROOKHURST STREET** **VCP** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708** **HAZNET**
0.162 mi.
853 ft. **Site 2 of 2 in cluster F**

Relative: Higher

Actual: 17 ft.

ENVIROSTOR:
Facility ID: 60002715
Status: Active
Status Date: 08/28/2018
Site Code: 401842
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 7
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Angela Turner
Supervisor: Emad Yemut
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: , 72
Senate: , 34
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 33.68851
Longitude: -117.9538
APN: 156-013-26
Past Use: DRY CLEANING
Potential COC: Tetrachloroethylene (PCE Trichloroethylene (TCE Vinyl chloride 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans
Confirmed COC: Tetrachloroethylene (PCE Trichloroethylene (TCE Vinyl chloride 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans
Potential Description: OTH, SV
Alias Name: 156-013-26
Alias Type: APN
Alias Name: 401842
Alias Type: Project Code (Site Code)
Alias Name: 60002715
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 10/23/2018
Comments: VCA Executed. Advance Payment of $16,015 received by DTSC accounting office.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/26/2018

FORMER RED DOOR CLEANERS (Continued) **S113127096**

Comments: Documents describing historical work reviewed by technical staff, no comments made.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 60002715
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 7
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Angela Turner
Supervisor: Emad Yemut
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 401842
Assembly: , 72
Senate: , 34
Special Programs Code: Voluntary Cleanup Program
Status: Active
Status Date: 08/28/2018
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 33.68851 / -117.9538
APN: 156-013-26
Past Use: DRY CLEANING
Potential COC: 30022, 30027, 30028, 30195, 30196
Confirmed COC: 30022,30027,30028,30195,30196
Potential Description: OTH, SV
Alias Name: 156-013-26
Alias Type: APN
Alias Name: 401842
Alias Type: Project Code (Site Code)
Alias Name: 60002715
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 10/23/2018
Comments: VCA Executed. Advance Payment of $16,015 received by DTSC accounting office.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

FORMER RED DOOR CLEANERS (Continued) **S113127096**

Completed Document Type: Other Report
Completed Date: 11/26/2018
Comments: Documents describing historical work reviewed by technical staff, no comments made.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HAZNET:
Site Name: NORGETOWN CLEANERS
Year: 2007
GEPAID: CAL000271865
Contact: JOO CHAN JI
Telephone: 7149683556
Mailing Name: Not reported
Mailing Address: 18888 BROOKHURST ST
Mailing City,St,Zip: FOUNTAIN VALLEY, CA 927087304
Gen County: Orange
TSD EPA ID: NVR000076158
TSD County: 99
Tons: 0.1251
CA Waste Code: 211-Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Method: H020-Solvents Recovery
Facility County: Orange

Site Name: NORGETOWN CLEANERS
Year: 2007
GEPAID: CAL000271865
Contact: JOO CHAN JI
Telephone: 7149683556
Mailing Name: Not reported
Mailing Address: 18888 BROOKHURST ST
Mailing City,St,Zip: FOUNTAIN VALLEY, CA 927087304
Gen County: Orange
TSD EPA ID: NVR000076158
TSD County: 99
Tons: Not reported
CA Waste Code: 213-Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Method: H020-Solvents Recovery
Facility County: Orange

Site Name: NORGETOWN CLEANERS
Year: 2007
GEPAID: CAL000271865
Contact: JOO CHAN JI
Telephone: 7149683556
Mailing Name: Not reported
Mailing Address: 18888 BROOKHURST ST
Mailing City,St,Zip: FOUNTAIN VALLEY, CA 927087304
Gen County: Orange

FORMER RED DOOR CLEANERS (Continued) **S113127096**

TSD EPA ID: NVR000076158
TSD County: 99
Tons: Not reported
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: H020-Solvents Recovery
Facility County: Orange

Site Name: NORGETOWN CLEANERS
Year: 2006
GEPAID: CAL000271865
Contact: JOO CHAN JI
Telephone: 7149683556
Mailing Name: Not reported
Mailing Address: 18888 BROOKHURST ST
Mailing City,St,Zip: FOUNTAIN VALLEY, CA 927087304
Gen County: Orange
TSD EPA ID: NVR000076158
TSD County: 99
Tons: 0.1251
CA Waste Code: 211-Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Method: -
Facility County: Orange

Site Name: NORGETOWN CLEANERS
Year: 2006
GEPAID: CAL000271865
Contact: JOO CHAN JI
Telephone: 7149683556
Mailing Name: Not reported
Mailing Address: 18888 BROOKHURST ST
Mailing City,St,Zip: FOUNTAIN VALLEY, CA 927087304
Gen County: Orange
TSD EPA ID: NVR000076158
TSD County: 99
Tons: Not reported
CA Waste Code: -
Method: H020-Solvents Recovery
Facility County: Orange

Click this hyperlink while viewing on your computer to access
5 additional CA_HAZNET: record(s) in the EDR Site Report.

E31 **MK OIL INC** **LUST** **U003432745**
NE **18480 BROOKHURST ST** **UST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708** **SWEEPS UST**
0.173 mi. **Orange Co. Industrial Site**
915 ft. **Site 8 of 12 in cluster E** **Cortese**
CERS

Relative:
Higher

Actual:
15 ft.

LUST:
Lead Agency: ORANGE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900032
Global Id: T0605900032
Latitude: 33.694347091
Longitude: -117.953842273
Status: Open - Remediation
Status Date: 04/05/2002

MK OIL INC (Continued) **U003432745**

Case Worker:	SR
RB Case Number:	083000038T
Local Agency:	ORANGE COUNTY LOP
File Location:	Local Agency
Local Case Number:	85UT085
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Please refer to recent Site Documents or Monitoring Reports in GeoTracker for site history. Orange County is not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants for the responsible party.

LUST:

Global Id:	T0605900032
Contact Type:	Local Agency Caseworker
Contact Name:	SHYAMALA RAJAGOPAL
Organization Name:	ORANGE COUNTY LOP
Address:	1241 E. DYER ROAD SUITE 120
City:	SANTA ANA
Email:	srajagopal@ochca.com
Phone Number:	7144336262

Global Id:	T0605900032
Contact Type:	Regional Board Caseworker
Contact Name:	VALERIE JAHN-BULL
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	valerie.jahn-bull@waterboards.ca.gov
Phone Number:	9517824903

LUST:

Global Id:	T0605900032
Action Type:	ENFORCEMENT
Date:	07/12/2016
Action:	Staff Letter

Global Id:	T0605900032
Action Type:	ENFORCEMENT
Date:	09/21/2015
Action:	File review

Global Id:	T0605900032
Action Type:	Other
Date:	09/19/1985
Action:	Leak Reported

Global Id:	T0605900032
Action Type:	ENFORCEMENT
Date:	07/01/2009
Action:	Staff Letter

Global Id:	T0605900032
Action Type:	ENFORCEMENT
Date:	12/03/2015
Action:	File review

MK OIL INC (Continued) **U003432745**

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 03/29/2016
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 03/30/2016
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 12/04/2015
Action: File review

Global Id: T0605900032
Action Type: REMEDIATION
Date: 09/01/1985
Action: Excavation

Global Id: T0605900032
Action Type: REMEDIATION
Date: 03/17/2001
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 03/08/2011
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 05/20/2013
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 07/16/2013
Action: Notice of Responsibility

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 11/16/2012
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 06/10/2013
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 01/17/2013
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT

MK OIL INC (Continued) **U003432745**

Date: 10/22/2013
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 10/21/2013
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 04/03/2017
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 11/29/2017
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 11/26/2013
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 12/20/2013
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 12/24/2013
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 04/24/2015
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 06/23/2015
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 05/06/2015
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 04/24/2014
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 11/12/2014
Action: File review

MK OIL INC (Continued) **U003432745**

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 08/09/2018
Action: Staff Letter

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 08/08/2018
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 08/10/2018
Action: Staff Letter

Global Id: T0605900032
Action Type: Other
Date: 09/19/1985
Action: Leak Discovery

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 10/27/2014
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 06/06/2014
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 04/12/1999
Action: * Historical Enforcement

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 02/08/2005
Action: Staff Letter

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 10/21/2003
Action: Staff Letter

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 12/17/2003
Action: Staff Letter

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 10/07/2004
Action: Staff Letter

LUST:
Global Id: T0605900032

MK OIL INC (Continued) **U003432745**

Status: Open - Case Begin Date
Status Date: 09/19/1985

Global Id: T0605900032
Status: Open - Remediation
Status Date: 04/05/2002

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 85UT085
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: Not reported
Record ID: RO0002796

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Remedial action (cleanup) Underway
Case Number:	083000038T
Local Case Num:	85UT085
Case Type:	Other ground water affected
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	LFOR
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	New Tank
Leak Cause:	Unknown
Leak Source:	Tank
Global ID:	T0605900032
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	9/19/1985
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	4/5/2002
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	=
Soil Qualifies:	=
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.6943505
Longitude:	-117.95424
MTBE Date:	9/19/2001

MK OIL INC (Continued) **U003432745**

Max MTBE GW:	40000
MTBE Concentration:	0
Max MTBE Soil:	120
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	VJJ
Staff Initials:	JK
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

UST:

Facility ID:	FA0062548
Permitting Agency:	Orange County Environmental Health
Latitude:	33.69445
Longitude:	-117.95374

Facility ID:	2373
Permitting Agency:	ORANGE COUNTY
Latitude:	33.6957667
Longitude:	-117.9523263

ORANGE CO. UST:

Facility ID: FA0062548

SWEEPS UST:

Status:	Not reported
Comp Number:	2373
Number:	Not reported
Board Of Equalization:	44-000506
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002373-000001
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	1

Status:	Active
Comp Number:	2373
Number:	9
Board Of Equalization:	44-000506
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88

MK OIL INC (Continued) **U003432745**

Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002373-000003
Tank Status:	A
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	4

Status:	Active
Comp Number:	2373
Number:	9
Board Of Equalization:	44-000506
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002373-000004
Tank Status:	A
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	2373
Number:	9
Board Of Equalization:	44-000506
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002373-000005
Tank Status:	A
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	2373
Number:	9
Board Of Equalization:	44-000506
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002373-000009
Tank Status:	A
Capacity:	550
Active Date:	Not reported
Tank Use:	PETROLEUM

MK OIL INC (Continued) **U003432745**

STG: P
Content: Not reported
Number Of Tanks: Not reported

Orange Co. Industrial Site:
Case ID: 93IC014
Record ID: RO0000426
Current Status: CLOSED 8/4/1994
Closure Type: Closure certification issued
Released Chemical: WASTE (OR SLOP) OIL

CORTESE:
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0605900032
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: OPEN - REMEDIATION
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

CERS TANKS:
Site ID: 197017
CERS ID: T0605900032
Site Name: ARCO #1912
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: VALERIE JAHN-BULL - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517824903

Affiliation Type Desc: Local Agency Caseworker
Entity Name: DAN WEERASEKERA - ORANGE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1241 E. Dyer Rd. Suite 120
Affiliation City: SANTA ANA

MK OIL INC (Continued) **U003432745**

Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7144336255

E32 **ARCO #1912** **CA FID UST** **S101631320**
NE **18480** **HIST CORTESE** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.173 mi.
915 ft. **Site 9 of 12 in cluster E**

Relative: **Higher**
Actual: **15 ft.**

CA FID UST:
Facility ID: 30000482
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7149686050
Mail To: Not reported
Mailing Address: 17315 STUDEBAKER RD
Mailing Address 2: Not reported
Mailing City,St,Zip: FOUNTAIN VALLEY 92708
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083000038T

E33 **ROBERT STRAZZ** **HIST UST** **U001578379**
NE **18480 BROOKHURST ST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.173 mi.
915 ft. **Site 10 of 12 in cluster E**

Relative: **Higher**
Actual: **15 ft.**

HIST UST:
File Number: 0002E510
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002E510.pdf
Region: STATE
Facility ID: 00000026657
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 0000000000
Owner Name: ARCO PETROLEUM PRODUCTS CO.
Owner Address: 515 SOUTH FLOWER STREET
Owner City,St,Zip: LOS ANGELES, CA 90071
Total Tanks: 0005

ROBERT STRAZZ (Continued) **U001578379**

Tank Num:	001
Container Num:	0000000001
Year Installed:	1966
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	0000240
Leak Detection:	Stock Inventor, 10

Tank Num:	002
Container Num:	0000000002
Year Installed:	1966
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	0000240
Leak Detection:	Stock Inventor, 10

Tank Num:	003
Container Num:	0000000003
Year Installed:	1966
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	0000240
Leak Detection:	Stock Inventor, 10

Tank Num:	004
Container Num:	0000000004
Year Installed:	1979
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10

Tank Num:	005
Container Num:	0000000005
Year Installed:	1966
Tank Capacity:	00000280
Tank Used for:	PRODUCT
Type of Fuel:	WASTE OIL
Container Construction Thickness:	0000093
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

E34 **BP WEST COAST PRODUCTS LLC 01912** **CERS HAZ WASTE** **S113117445**
NE **18480 BROOKHURST ST** **CERS TANKS** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708** **HAZNET**
0.173 mi. **CERS**
915 ft. **Site 11 of 12 in cluster E**

Relative: CERS HAZ WASTE:
Higher

Site ID:	135730
CERS ID:	10402924
CERS Description:	Hazardous Waste Generator

Actual:
15 ft.

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Violations:

Site ID:	135730
Site Name:	MK OIL INC., DBA ARCO 83513
Violation Date:	05-17-2016
Citation:	HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes:	Returned to compliance on 07/21/2016.
Violation Division:	Fountain Valley Fire
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	135730
Site Name:	MK OIL INC., DBA ARCO 83513
Violation Date:	09-18-2017
Citation:	HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description:	Failure to obtain a valid permit to operate from the CUPA.
Violation Notes:	Returned to compliance on 03/26/2018. The UST permit to operate was not renewed by this Agency on July 1, 2017 due to noncompliance with UST laws and regulations. The facility owner and operator are currently operating the UST(s) without a permit. Please correct all violations listed on this report immediately. A permit will be issued when the site is in compliance and has paid all applicable UST fees.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	135730
Site Name:	MK OIL INC., DBA ARCO 83513
Violation Date:	05-18-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/13/2017. remodel added CO2
Violation Division:	Fountain Valley Fire
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	135730
Site Name:	MK OIL INC., DBA ARCO 83513
Violation Date:	06-09-2017
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the UST.
Violation Notes:	Returned to compliance on 03/26/2018. Secondary containment testing test result from 10/7/16 was not available for review on site. Please submit a copy to this Agency and maintain a copy on site within 30

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

days of this report.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 06-13-2016
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 09/09/2016. Certification of Financial Responsibility form has not been signed by a witness or notary. Please submit a complete form in CERS.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 06-09-2017
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Response Plan available on site.
Violation Notes: Returned to compliance on 03/26/2018. The UST response plan was not available for review on site during the inspection. Facility must obtain a copy and maintain/post it on site within 30 days. A follow-up inspection will be conducted within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 07-19-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 08/17/2017. needs to add CO2 on Map
Violation Division: Fountain Valley Fire
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 03-22-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following violations were noted on an inspection report dated 6/9/2017. The violations have not been corrected as of this date (3/22/2018) and a current UST Operating Permit was not issued to this facility because of the outstanding violations. Further enforcement (including fines) may be forthcoming. Please contact me ASAP to provide an update on the status of the violations listed in this

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

report. OUTSTANDING VIOLATIONS - 3/22/18 I673 - The UST response plan was not available for review on site during the inspection. Facility must obtain a copy and maintain/post it on site within 30 days. A follow-up inspection will be conducted within 30 days. I319 - Secondary containment testing test result from 10/7/16 was not available for review on site. Please submit a copy to this Agency and maintain a copy on site within 30 days of this report.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-08-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: An on-site inspection was conducted this date to witness the annual monitoring system certification. Peyman Nabisi (Pacific Nozzle) conducted the monitoring system certification and provided current Veeder-Root, VMI, and ICC certifications. This facility contains: 4 - USTs (87, 87 syphon, 91, waste oil) Monitor system is a Veeder-Root monitor panel and reads all functions normal. Overfill protection provided by audible/visual alarms. Sensors were observed positioned so as to initiate alarms at the earliest point possible. Sensors were re-positioned in a true vertical position upon installation after testing. Alarm history and setup tape reviewed while on site. NOTE: Sensors L4 and L8 were renamed this date to correctly reflect their positions in the tank system (7/8 dispenser and 87 siphon, respectively) The following were tested: - Sensors, initiated positive shutdown to the turbines when tested in water - ?Fail Safe? and ?Positive Shutdown? - Overfill [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-09-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received call from Tony Mansour regarding site compliance. No revisions have been submitted to CERS. Tony said he did not get an email from CERS. Checked info, Tony had a typo in his email address in CERS. Received email from Salah Mazloum regarding theother violations. Received email with various documents. Will review them onsite during the annual inspection on Friday (scan copy difficult to read).
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-09-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENT: On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Salah E. Masloum, Owner. Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed and properly labeled. Manifests were available and reviewed. Employees are reported to be

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

trained. Emergency plan is posted at the Veeder-Root panel behind the casher station. No hazardous waste or universal waste observed in the dumpster/enclosure area. No hazardous waste violations were observed this date.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-23-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Monitor cert notification
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-01-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Inspection rescheduling due to regularly scheduled day off falling on 6/9. Confirmation from the tester is pending.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-10-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST documents declined in CERS: The waste oil tank was reportedly installed at the same time as the three fuel tanks but the manufacturer is listed as unknown. Please review the tank records, secondary containment test reports, and appearance of the tank top to determine if it is the same manufacturer as the other tanks and then update the information in CERS. Overfill prevention is likely exempt. Please verify the overfill prevention method. Corrosion protection must include "isolation" for the tanks at this location. Waste oil monitoring plan: the waste oil tank does not have an electronic line leak detector installed, and no UDC monitoring is being conducted. Please remove the information from these sections of the plan. The state form for the Certification of Financial Responsibility must be signed by the witness/notary. Please have the owner/operator sign the leak response plan.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-10-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector Comments: On site to witness monitoring system certification testing activities and to conduct routine UST inspection. Waste oil tank’s annular and sump sensors alarmed properly, both visual and audible, when submerged in water. Gasoline tanks’ annular and sump

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

sensors alarmed properly (visual and audible) and shut down respective turbine when submerged in water. UDC sensors alarmed properly (visual and audible) and shut down turbines when submerged in water. Fail-safe, sensor out and emergency shut off were tested and passed. Line leak detectors were tested and passed. ATGs were tested and passed test with the enunciator functioning properly. Spill buckets were tested visually without any changes in water level. Valid permit, designated operator documentation, monthly inspection reports, monitoring plan, response plan, employee training records, daily visual UST monitoring logs, tank pages, certification of financial responsibility, [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-18-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS 2016 - Not Accepted - incorrect EPA ID - listed ARCO/BP Petroleums ID
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-23-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST submittal declined in CERS. The waste oil tank was reportedly installed at the same time as the three fuel tanks but the manufacturer is listed as unknown. Please review the tank records, secondary containment test reports, and appearance of the tank top to determine if it is the same manufacturer as the other tanks and then update the information in CERS. Overfill prevention is likely exempt. Please verify the overfill prevention method. Corrosion protection must include "isolation" for the tanks at this location.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-26-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Declined UST in CERS database. Discussed issues with operator, Salah.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-04-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Accepted UST documents in CERS- - CFR is dated 1/15/16 - DO is TM Environmental Services
Eval Division: Orange County Environmental Health

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Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-01-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification for 6-9
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-13-2016
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received the following documents: - Monitoring system certification dated 6/10/16 - Spill bucket test report dated 6/10/16
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-13-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS Received the Annual Monitoring System Certification Test Result, dated 6/9/17. The following tests PASSED: - Monitoring System Certification - Line Leak Detector - Spill Bucket Test
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST permiting documents declined in CERS due to: CFR State form is not legible. Please re-scan the document and upload.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-02-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-18-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following violations were cited on a previous inspection report

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dated 6/9/17 and remain outstanding: I319- Secondary containment testing test result from 10/7/16 was not available for review on site. I673- The UST response plan was not available for review on site during the inspection. A copy of this report will be sent to tmansourenv@gmail.com

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-07-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Onsite during SB989 Secondary Containment Testing. Peyman Nabisi of Pacific Nozzles & Petroleum Services provided the following valid certifications: ICC, Incon, Veeder-Root.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-12-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and accepted CERS ID 10402924Underground Storage Tanks submittal dated 9/8/16.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-09-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENT: On site for routine UST inspection, monitoring system certification, and spill bucket testing. Testing of monitoring equipment was performed by Fernando Martinez on behalf of Pacific Nozzle and Petroleum Services; Tester provided the following verification and are all current: ICC, Veeder Root, and VMI. The facility has four double-walled underground storage tanks (87S, 87N, 91, and waste oil- not in use). The monitor was operational for audible and visual alarms. Leak sensors were located at the lowest point of the tank. Leak sensors for the annular spaces (VR-409), fill sumps (VR-208), turbine sumps (VR-208), and UDCs (VR-208) were tested and determined to be operational. Sensor out and fail safe, were tested and passed. ATGs are used for overfill prevention; tested and passed. The spill buckets were tested; bucket test passed. ELLD were tested and passed. This inspector did not witness all testing performed at this site. The following [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-15-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency

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Eval Notes:	Change permit status to Do Not Issue Permit (03) per email from M. Le dated 6/13/17.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Change UST status to get a permit, per Berg.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The UST permit package has been accepted in the CERS database. Certification of Financial Responsibility is dated 6/9/15 Designated operator is Tony Mansour of TM Environmental Services. Violation (TR02) has been corrected. Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Added CO2
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-26-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received the following documents via CERS: - Monitoring system certification dated 6/16/14 - Spill bucket test report dated 6/16/14 - Designated Operator Owner Statement indicating DO is Tony Mansour - Certification of Financial Responsibility dated 1/16/15- form is incomplete Violation (I205) has been corrected. The following violations were cited on previous inspection reports and remain outstanding: (TR02) Failure to submit UST documents electronically: not accepted in CERS (TS05) Failure to maintain maintenance records (TS11) DO monthly records are incomplete/inaccurate (TS12) DO training records are not available for review Please submit the required records/documents to this Agency and/or CERS immediately.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Eval Date:	03-12-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review. ACCEPTED. Updated CFO letter provided.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-26-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	An off-site, follow-up inspection was conducted this date (3/26/18). The items noted below are in reference to an onsite inspection of your facility conducted on 6/9/17. OUTSTANDING VIOLATIONS ? 3/26/18 NONE CORRECTED VIOLATIONS ? 3/26/18 I319 - The operator has submitted a copy of their Secondary Containment Test Report and keeps a copy onsite and available for review I673 - The operator has submitted a copy of their UST Reponse Plan and keeps a copy onsite and available for staff UST requirements met, and operating permit to be issued.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-11-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-18-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	remodel need to add 300 lbs CO2
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-21-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Change status to not receive a permit, per Berg.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-09-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health

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Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-12-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine UST inspection, monitoring system certification, and spill bucket testing. Consent to enter and inspect was given by Salah Mazloum. The facility has four double-walled tanks (87M, 87A, 91, WO) monitored by a Veeder Root TLS350 system. The monitor is operational for audible and visual alarms. The in-tank probes are used for overfill prevention. Positive shutdown and fail safe programming were verified. The sensors in the fuel tank annulars, turbine sumps, fill sumps, and UDCs all shutdown the turbines when submerged in fuel. The two electronic leak detectors were tested with a simulated 3 gph leak and were determined to be operational. The in-tank probes were positioned at 90% tank capacity, triggering an external audible/visual alarm for all three fuel tanks. The sensors in the waste oil tank annular and piping sump triggered an audible and visual alarm when submerged in fuel. Spill buckets were visually tested for 30 minutes. No indication of [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-13-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS submittal reviewed and was NOT ACCEPTED: Submittal was reviewed following on-site inspection. Please correct the following: Waste Oil Tank: Pipe Monitoring Section states that the pump automatically shut down when the leak alarm is triggered or when the tank is in fail safe. There is no pump on this tank top, please correct and re-submit. Monitoring Plan: For the Under Dispenser Containment (UDC) Monitoring Section: Under UDC Monitoring Stops Flow of Product at Dispenser- Indicate "Yes" only if flow is stopped at the individual dispensers regardless of whether or not the turbine is active (i.e. mechanical valves are closed or dispenser power is shut off). Indicate "No" if flow is not stopped at the individual dispensers (i.e. the turbine is shutdown). Please also obtain a copy of the inspection report from the owner/operator for details on other items that need to be corrected. Any questions, please feel free to contact me at minh.le@ochca.com or 714-720-1327. [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-21-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency received the monitoring system certification test report for a test conducted 6/8/18. The following components PASSED testing: - Tank Annular Sensors (4) - STP Sump Sensors (4) - Fill Sump Sensors (4) - UDC Sensors (4) - Audible/Visual Overfill Alarm - Fail

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	Safe/Sensor Out - Spill Buckets Visual Test - Line Leak Detectors
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-19-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	needs to add CO2 on map
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-09-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has reviewed and accepted the Certification of Financial Responsibility documents in the CERS database. The form is dated 9/8/16. Violation (I583) has been corrected. Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-28-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SB 989 test notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	TONY MANSOUR
Entity Title:	Not reported
Affiliation Address:	18480 Brookhurst St
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	MK OIL INC.
Entity Title:	Not reported
Affiliation Address:	18480 Brookhurst St
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050
Affiliation Type Desc:	UST Tank Operator
Entity Name:	Salah Mazloum

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST STREET
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	Identification Signer
Entity Name:	Salah Mazloum
Entity Title:	OWNER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Salah Mazloum
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(310) 985-0699
Affiliation Type Desc:	Parent Corporation
Entity Name:	Arco # 01912
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	RASM LLC
Entity Title:	Not reported
Affiliation Address:	18480 Brookhurst St
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(310) 985-0699

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	SALAH MAZLOUM
Entity Title:	OWNER/OPERATOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 968-6050

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	SALAH MAZLOUM
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST STREET
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST ST.
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Tank Owner
Entity Name:	MK OIL INC.
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST STREET
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	Not reported
Affiliation Country:	UNITED STATES
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050

Affiliation Type Desc:	Document Preparer
Entity Name:	TONY MANSOUR, TM ENV. SVC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

CERS TANKS:

Facility Name:	MK OIL INC., DBA ARCO 83513
Site ID:	135730
CERS ID:	10402924
CERS Description:	Underground Storage Tank

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Violations:

Site ID:	135730
Site Name:	MK OIL INC., DBA ARCO 83513
Violation Date:	05-17-2016
Citation:	HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes:	Returned to compliance on 07/21/2016.
Violation Division:	Fountain Valley Fire
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	135730
Site Name:	MK OIL INC., DBA ARCO 83513
Violation Date:	09-18-2017
Citation:	HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description:	Failure to obtain a valid permit to operate from the CUPA.
Violation Notes:	Returned to compliance on 03/26/2018. The UST permit to operate was not renewed by this Agency on July 1, 2017 due to noncompliance with UST laws and regulations. The facility owner and operator are currently operating the UST(s) without a permit. Please correct all violations listed on this report immediately. A permit will be issued when the site is in compliance and has paid all applicable UST fees.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	135730
Site Name:	MK OIL INC., DBA ARCO 83513
Violation Date:	05-18-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/13/2017. remodel added CO2
Violation Division:	Fountain Valley Fire
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	135730
Site Name:	MK OIL INC., DBA ARCO 83513
Violation Date:	06-09-2017
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the UST.
Violation Notes:	Returned to compliance on 03/26/2018. Secondary containment testing test result from 10/7/16 was not available for review on site. Please submit a copy to this Agency and maintain a copy on site within 30

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days of this report.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 06-13-2016
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 09/09/2016. Certification of Financial Responsibility form has not been signed by a witness or notary. Please submit a complete form in CERS.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 06-09-2017
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Response Plan available on site.
Violation Notes: Returned to compliance on 03/26/2018. The UST response plan was not available for review on site during the inspection. Facility must obtain a copy and maintain/post it on site within 30 days. A follow-up inspection will be conducted within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 07-19-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 08/17/2017. needs to add CO2 on Map
Violation Division: Fountain Valley Fire
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 03-22-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following violations were noted on an inspection report dated 6/9/2017. The violations have not been corrected as of this date (3/22/2018) and a current UST Operating Permit was not issued to this facility because of the outstanding violations. Further enforcement (including fines) may be forthcoming. Please contact me ASAP to provide an update on the status of the violations listed in this

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

report. OUTSTANDING VIOLATIONS - 3/22/18 I673 - The UST response plan was not available for review on site during the inspection. Facility must obtain a copy and maintain/post it on site within 30 days. A follow-up inspection will be conducted within 30 days. I319 - Secondary containment testing test result from 10/7/16 was not available for review on site. Please submit a copy to this Agency and maintain a copy on site within 30 days of this report.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-08-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: An on-site inspection was conducted this date to witness the annual monitoring system certification. Peyman Nabisi (Pacific Nozzle) conducted the monitoring system certification and provided current Veeder-Root, VMI, and ICC certifications. This facility contains: 4 - USTs (87, 87 syphon, 91, waste oil) Monitor system is a Veeder-Root monitor panel and reads all functions normal. Overfill protection provided by audible/visual alarms. Sensors were observed positioned so as to initiate alarms at the earliest point possible. Sensors were re-positioned in a true vertical position upon installation after testing. Alarm history and setup tape reviewed while on site. NOTE: Sensors L4 and L8 were renamed this date to correctly reflect their positions in the tank system (7/8 dispenser and 87 siphon, respectively) The following were tested: - Sensors, initiated positive shutdown to the turbines when tested in water - ?Fail Safe? and ?Positive Shutdown? - Overfill [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-09-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received call from Tony Mansour regarding site compliance. No revisions have been submitted to CERS. Tony said he did not get an email from CERS. Checked info, Tony had a typo in his email address in CERS. Received email from Salah Mazloum regarding theother violations. Received email with various documents. Will review them onsite during the annual inspection on Friday (scan copy difficult to read).
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-09-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENT: On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Salah E. Masloum, Owner. Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed and properly labeled. Manifests were available and reviewed. Employees are reported to be

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

trained. Emergency plan is posted at the Veeder-Root panel behind the casher station. No hazardous waste or universal waste observed in the dumpster/enclosure area. No hazardous waste violations were observed this date.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-23-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Monitor cert notification
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-01-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Inspection rescheduling due to regularly scheduled day off falling on 6/9. Confirmation from the tester is pending.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-10-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST documents declined in CERS: The waste oil tank was reportedly installed at the same time as the three fuel tanks but the manufacturer is listed as unknown. Please review the tank records, secondary containment test reports, and appearance of the tank top to determine if it is the same manufacturer as the other tanks and then update the information in CERS. Overfill prevention is likely exempt. Please verify the overfill prevention method. Corrosion protection must include "isolation" for the tanks at this location. Waste oil monitoring plan: the waste oil tank does not have an electronic line leak detector installed, and no UDC monitoring is being conducted. Please remove the information from these sections of the plan. The state form for the Certification of Financial Responsibility must be signed by the witness/notary. Please have the owner/operator sign the leak response plan.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-10-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector Comments: On site to witness monitoring system certification testing activities and to conduct routine UST inspection. Waste oil tank's annular and sump sensors alarmed properly, both visual and audible, when submerged in water. Gasoline tanks' annular and sump

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

sensors alarmed properly (visual and audible) and shut down respective turbine when submerged in water. UDC sensors alarmed properly (visual and audible) and shut down turbines when submerged in water. Fail-safe, sensor out and emergency shut off were tested and passed. Line leak detectors were tested and passed. ATGs were tested and passed test with the enunciator functioning properly. Spill buckets were tested visually without any changes in water level. Valid permit, designated operator documentation, monthly inspection reports, monitoring plan, response plan, employee training records, daily visual UST monitoring logs, tank pages, certification of financial responsibility, [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-18-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS 2016 - Not Accepted - incorrect EPA ID - listed ARCO/BP Petroleums ID
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-23-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST submittal declined in CERS. The waste oil tank was reportedly installed at the same time as the three fuel tanks but the manufacturer is listed as unknown. Please review the tank records, secondary containment test reports, and appearance of the tank top to determine if it is the same manufacturer as the other tanks and then update the information in CERS. Overfill prevention is likely exempt. Please verify the overfill prevention method. Corrosion protection must include "isolation" for the tanks at this location.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-26-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Declined UST in CERS database. Discussed issues with operator, Salah.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-04-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Accepted UST documents in CERS- - CFR is dated 1/15/16 - DO is TM Environmental Services
Eval Division: Orange County Environmental Health

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-01-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification for 6-9
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-13-2016
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received the following documents: - Monitoring system certification dated 6/10/16 - Spill bucket test report dated 6/10/16
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-13-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS Received the Annual Monitoring System Certification Test Result, dated 6/9/17. The following tests PASSED: - Monitoring System Certification - Line Leak Detector - Spill Bucket Test
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST permiting documents declined in CERS due to: CFR State form is not legible. Please re-scan the document and upload.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-02-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-18-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following violations were cited on a previous inspection report

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

dated 6/9/17 and remain outstanding: I319- Secondary containment testing test result from 10/7/16 was not available for review on site. I673- The UST response plan was not available for review on site during the inspection. A copy of this report will be sent to tmansourenv@gmail.com

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-07-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Onsite during SB989 Secondary Containment Testing. Peyman Nabisi of Pacific Nozzles & Petroleum Services provided the following valid certifications: ICC, Incon, Veeder-Root.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-12-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and accepted CERS ID 10402924Underground Storage Tanks submittal dated 9/8/16.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-09-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENT: On site for routine UST inspection, monitoring system certification, and spill bucket testing. Testing of monitoring equipment was performed by Fernando Martinez on behalf of Pacific Nozzle and Petroleum Services; Tester provided the following verification and are all current: ICC, Veeder Root, and VMI. The facility has four double-walled underground storage tanks (87S, 87N, 91, and waste oil- not in use). The monitor was operational for audible and visual alarms. Leak sensors were located at the lowest point of the tank. Leak sensors for the annular spaces (VR-409), fill sumps (VR-208), turbine sumps (VR-208), and UDCs (VR-208) were tested and determined to be operational. Sensor out and fail safe, were tested and passed. ATGs are used for overfill prevention; tested and passed. The spill buckets were tested; bucket test passed. ELLD were tested and passed. This inspector did not witness all testing performed at this site. The following [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-15-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency

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Eval Notes:	Change permit status to Do Not Issue Permit (03) per email from M. Le dated 6/13/17.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Change UST status to get a permit, per Berg.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The UST permit package has been accepted in the CERS database. Certification of Financial Responsibility is dated 6/9/15 Designated operator is Tony Mansour of TM Environmental Services. Violation (TR02) has been corrected. Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Added CO2
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-26-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received the following documents via CERS: - Monitoring system certification dated 6/16/14 - Spill bucket test report dated 6/16/14 - Designated Operator Owner Statement indicating DO is Tony Mansour - Certification of Financial Responsibility dated 1/16/15- form is incomplete Violation (I205) has been corrected. The following violations were cited on previous inspection reports and remain outstanding: (TR02) Failure to submit UST documents electronically: not accepted in CERS (TS05) Failure to maintain maintenance records (TS11) DO monthly records are incomplete/inaccurate (TS12) DO training records are not available for review Please submit the required records/documents to this Agency and/or CERS immediately.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Eval Date:	03-12-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review. ACCEPTED. Updated CFO letter provided.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-26-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	An off-site, follow-up inspection was conducted this date (3/26/18). The items noted below are in reference to an onsite inspection of your facility conducted on 6/9/17. OUTSTANDING VIOLATIONS ? 3/26/18 NONE CORRECTED VIOLATIONS ? 3/26/18 I319 - The operator has submitted a copy of their Secondary Containment Test Report and keeps a copy onsite and available for review I673 - The operator has submitted a copy of their UST Reponse Plan and keeps a copy onsite and available for staff UST requirements met, and operating permit to be issued.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-11-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-18-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	remodel need to add 300 lbs CO2
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-21-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Change status to not receive a permit, per Berg.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-09-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-12-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine UST inspection, monitoring system certification, and spill bucket testing. Consent to enter and inspect was given by Salah Mazloum. The facility has four double-walled tanks (87M, 87A, 91, WO) monitored by a Veeder Root TLS350 system. The monitor is operational for audible and visual alarms. The in-tank probes are used for overfill prevention. Positive shutdown and fail safe programming were verified. The sensors in the fuel tank annulars, turbine sumps, fill sumps, and UDCs all shutdown the turbines when submerged in fuel. The two electronic leak detectors were tested with a simulated 3 gph leak and were determined to be operational. The in-tank probes were positioned at 90% tank capacity, triggering an external audible/visual alarm for all three fuel tanks. The sensors in the waste oil tank annular and piping sump triggered an audible and visual alarm when submerged in fuel. Spill buckets were visually tested for 30 minutes. No indication of [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-13-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS submittal reviewed and was NOT ACCEPTED: Submittal was reviewed following on-site inspection. Please correct the following: Waste Oil Tank: Pipe Monitoring Section states that the pump automatically shut down when the leak alarm is triggered or when the tank is in fail safe. There is no pump on this tank top, please correct and re-submit. Monitoring Plan: For the Under Dispenser Containment (UDC) Monitoring Section: Under UDC Monitoring Stops Flow of Product at Dispenser- Indicate "Yes" only if flow is stopped at the individual dispensers regardless of whether or not the turbine is active (i.e. mechanical valves are closed or dispenser power is shut off). Indicate "No" if flow is not stopped at the individual dispensers (i.e. the turbine is shutdown). Please also obtain a copy of the inspection report from the owner/operator for details on other items that need to be corrected. Any questions, please feel free to contact me at minh.le@ochca.com or 714-720-1327. [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-21-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency received the monitoring system certification test report for a test conducted 6/8/18. The following components PASSED testing: - Tank Annular Sensors (4) - STP Sump Sensors (4) - Fill Sump Sensors (4) - UDC Sensors (4) - Audible/Visual Overfill Alarm - Fail

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

	Safe/Sensor Out - Spill Buckets Visual Test - Line Leak Detectors
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-19-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	needs to add CO2 on map
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-09-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has reviewed and accepted the Certification of Financial Responsibility documents in the CERS database. The form is dated 9/8/16. Violation (I583) has been corrected. Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-28-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SB 989 test notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	TONY MANSOUR
Entity Title:	Not reported
Affiliation Address:	18480 Brookhurst St
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	MK OIL INC.
Entity Title:	Not reported
Affiliation Address:	18480 Brookhurst St
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050
Affiliation Type Desc:	UST Tank Operator
Entity Name:	Salah Mazloum

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST STREET
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	Identification Signer
Entity Name:	Salah Mazloum
Entity Title:	OWNER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Salah Mazloum
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(310) 985-0699
Affiliation Type Desc:	Parent Corporation
Entity Name:	Arco # 01912
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	RASM LLC
Entity Title:	Not reported
Affiliation Address:	18480 Brookhurst St
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(310) 985-0699

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	SALAH MAZLOUM
Entity Title:	OWNER/OPERATOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 968-6050

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	SALAH MAZLOUM
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST STREET
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST ST.
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Tank Owner
Entity Name:	MK OIL INC.
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST STREET
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	Not reported
Affiliation Country:	UNITED STATES
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050

Affiliation Type Desc:	Document Preparer
Entity Name:	TONY MANSOUR, TM ENV. SVC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

HAZNET:

Site Name:	BP WEST COAST PRODUCTS LLC 01912
Year:	2013
GEPAID:	CAL000244194
Contact:	Jackie Dougherty
Telephone:	9494605200

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 0.0084
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Orange

Site Name: BP WEST COAST PRODUCTS LLC 01912
Year: 2012
GEPAID: CAL000244194
Contact: Jackie Dougherty
Telephone: 9494605200
Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 0.084
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Orange

Site Name: BP WEST COAST PRODUCTS LLC 01912
Year: 2011
GEPAID: CAL000244194
Contact: Jackie Dougherty
Telephone: 9494605200
Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 0.252
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Orange

Site Name: BP WEST COAST PRODUCTS LLC 01912
Year: 2010
GEPAID: CAL000244194
Contact: Jackie Dougherty
Telephone: 9494605200
Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: NVT330010000
TSD County: 99

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Tons: 0.0325
CA Waste Code: 352-Other organic solids
Method: H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Orange

Site Name: BP WEST COAST PRODUCTS LLC 01912
Year: 2010
GEPAID: CAL000244194
Contact: Jackie Dougherty
Telephone: 9494605200
Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 0.1722
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Orange

Click this hyperlink while viewing on your computer to access
13 additional CA_HAZNET: record(s) in the EDR Site Report.

CERS TANKS:
Site ID: 135730
CERS ID: 10402924
Site Name: MK OIL INC., DBA ARCO 83513
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 05-17-2016
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 07/21/2016.
Violation Division: Fountain Valley Fire
Violation Program: HMRRP
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 09-18-2017
Citation: HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description: Failure to obtain a valid permit to operate from the CUPA.
Violation Notes: Returned to compliance on 03/26/2018. The UST permit to operate was

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not renewed by this Agency on July 1, 2017 due to noncompliance with UST laws and regulations. The facility owner and operator are currently operating the UST(s) without a permit. Please correct all violations listed on this report immediately. A permit will be issued when the site is in compliance and has paid all applicable UST fees.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 05-18-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 07/13/2017. remodel added CO2
Violation Division: Fountain Valley Fire
Violation Program: HMRRP
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 06-09-2017
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the UST.
Violation Notes: Returned to compliance on 03/26/2018. Secondary containment testing test result from 10/7/16 was not available for review on site. Please submit a copy to this Agency and maintain a copy on site within 30 days of this report.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 06-13-2016
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 09/09/2016. Certification of Financial Responsibility form has not been signed by a witness or notary. Please submit a complete form in CERS.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 06-09-2017
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Response Plan available on site.

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Violation Notes:	Returned to compliance on 03/26/2018. The UST response plan was not available for review on site during the inspection. Facility must obtain a copy and maintain/post it on site within 30 days. A follow-up inspection will be conducted within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	135730
Site Name:	MK OIL INC., DBA ARCO 83513
Violation Date:	07-19-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/17/2017. needs to add CO2 on Map
Violation Division:	Fountain Valley Fire
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	03-22-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following violations were noted on an inspection report dated 6/9/2017. The violations have not been corrected as of this date (3/22/2018) and a current UST Operating Permit was not issued to this facility because of the outstanding violations. Further enforcement (including fines) may be forthcoming. Please contact me ASAP to provide an update on the status of the violations listed in this report. OUTSTANDING VIOLATIONS - 3/22/18 I673 - The UST response plan was not available for review on site during the inspection. Facility must obtain a copy and maintain/post it on site within 30 days. A follow-up inspection will be conducted within 30 days. I319 - Secondary containment testing test result from 10/7/16 was not available for review on site. Please submit a copy to this Agency and maintain a copy on site within 30 days of this report.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-08-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	An on-site inspection was conducted this date to witness the annual monitoring system certification. Peyman Nabisi (Pacific Nozzle) conducted the monitoring system certification and provided current Veeder-Root, VMI, and ICC certifications. This facility contains: 4 - USTs (87, 87 syphon, 91, waste oil) Monitor system is a Veeder-Root monitor panel and reads all functions normal. Overfill protection provided by audible/visual alarms. Sensors were observed positioned so as to initiate alarms at the earliest point possible. Sensors were re-positioned in a true vertical position upon installation after testing. Alarm history and setup tape reviewed while on site. NOTE:

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	Sensors L4 and L8 were renamed this date to correctly reflect their positions in the tank system (7/8 dispenser and 87 siphon, respectively) The following were tested: - Sensors, initiated positive shutdown to the turbines when tested in water - ?Fail Safe? and ?Positive Shutdown? - Overfill [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-09-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received call from Tony Mansour regarding site compliance. No revisions have been submitted to CERS. Tony said he did not get an email from CERS. Checked info, Tony had a typo in his email address in CERS. Received email from Salah Mazloum regarding theother violations. Received email with various documents. Will review them onsite during the annual inspection on Friday (scan copy difficult to read).
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-09-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENT: On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Salah E. Masloum, Owner. Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed and properly labeled. Manifests were available and reviewed. Employees are reported to be trained. Emergency plan is posted at the Veeder-Root panel behind the casher station. No hazardous waste or universal waste observed in the dumpster/enclosure area. No hazardous waste violations were observed this date.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-23-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-01-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspection rescheduling due to regularly scheduled day off falling on 6/9. Confirmation from the tester is pending.
Eval Division:	Orange County Environmental Health
Eval Program:	UST

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Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-10-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST documents declined in CERS: The waste oil tank was reportedly installed at the same time as the three fuel tanks but the manufacturer is listed as unknown. Please review the tank records, secondary containment test reports, and appearance of the tank top to determine if it is the same manufacturer as the other tanks and then update the information in CERS. Overfill prevention is likely exempt. Please verify the overfill prevention method. Corrosion protection must include "isolation" for the tanks at this location. Waste oil monitoring plan: the waste oil tank does not have an electronic line leak detector installed, and no UDC monitoring is being conducted. Please remove the information from these sections of the plan. The state form for the Certification of Financial Responsibility must be signed by the witness/notary. Please have the owner/operator sign the leak response plan.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-10-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Inspector Comments: On site to witness monitoring system certification testing activities and to conduct routine UST inspection. Waste oil tank’s annular and sump sensors alarmed properly, both visual and audible, when submerged in water. Gasoline tanks’ annular and sump sensors alarmed properly (visual and audible) and shut down respective turbine when submerged in water. UDC sensors alarmed properly (visual and audible) and shut down turbines when submerged in water. Fail-safe, sensor out and emergency shut off were tested and passed. Line leak detectors were tested and passed. ATGs were tested and passed test with the enunciator functioning properly. Spill buckets were tested visually without any changes in water level. Valid permit, designated operator documentation, monthly inspection reports, monitoring plan, response plan, employee training records, daily visual UST monitoring logs, tank pages, certification of financial responsibility, [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-18-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS 2016 - Not Accepted - incorrect EPA ID - listed ARCO/BP Petroleums ID
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

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Eval General Type:	Other/Unknown
Eval Date:	06-23-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST submittal declined in CERS. The waste oil tank was reportedly installed at the same time as the three fuel tanks but the manufacturer is listed as unknown. Please review the tank records, secondary containment test reports, and appearance of the tank top to determine if it is the same manufacturer as the other tanks and then update the information in CERS. Overfill prevention is likely exempt. Please verify the overfill prevention method. Corrosion protection must include "isolation" for the tanks at this location.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-26-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Declined UST in CERS database. Discussed issues with operator, Salah.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-04-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Accepted UST documents in CERS- - CFR is dated 1/15/16 - DO is TM Environmental Services
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-01-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification for 6-9
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-13-2016
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received the following documents: - Monitoring system certification dated 6/10/16 - Spill bucket test report dated 6/10/16
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-13-2017
Violations Found:	No

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Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS Received the Annual Monitoring System Certification Test Result, dated 6/9/17. The following tests PASSED: - Monitoring System Certification - Line Leak Detector - Spill Bucket Test
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST permiting documents declined in CERS due to: CFR State form is not legible. Please re-scan the document and upload.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-02-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-18-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following violations were cited on a previous inspection report dated 6/9/17 and remain outstanding: I319- Secondary containment testing test result from 10/7/16 was not available for review on site. I673- The UST response plan was not available for review on site during the inspection. A copy of this report will be sent to tmansourenv@gmail.com
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-07-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Onsite during SB989 Secondary Containment Testing. Peyman Nabisi of Pacific Nozzles & Petroleum Services provided the following valid certifications: ICC, Incon, Veeder-Root.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-12-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed and accepted CERS ID 10402924Underground Storage Tanks

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	submittal dated 9/8/16.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-09-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENT: On site for routine UST inspection, monitoring system certification, and spill bucket testing. Testing of monitoring equipment was performed by Fernando Martinez on behalf of Pacific Nozzle and Petroleum Services; Tester provided the following verification and are all current: ICC, Veeder Root, and VMI. The facility has four double-walled underground storage tanks (87S, 87N, 91, and waste oil- not in use). The monitor was operational for audible and visual alarms. Leak sensors were located at the lowest point of the tank. Leak sensors for the annular spaces (VR-409), fill sumps (VR-208), turbine sumps (VR-208), and UDCs (VR-208) were tested and determined to be operational. Sensor out and fail safe, were tested and passed. ATGs are used for overfill prevention; tested and passed. The spill buckets were tested; bucket test passed. ELLD were tested and passed. This inspector did not witness all testing performed at this site. The following [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-15-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Change permit status to Do Not Issue Permit (03) per email from M. Le dated 6/13/17.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Change UST status to get a permit, per Berg.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The UST permit package has been accepted in the CERS database. Certification of Financial Responsibility is dated 6/9/15 Designated operator is Tony Mansour of TM Environmental Services. Violation (TR02) has been corrected. Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST

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Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Added CO2
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-26-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received the following documents via CERS: - Monitoring system certification dated 6/16/14 - Spill bucket test report dated 6/16/14 - Designated Operator Owner Statement indicating DO is Tony Mansour - Certification of Financial Responsibility dated 1/16/15- form is incomplete Violation (I205) has been corrected. The following violations were cited on previous inspection reports and remain outstanding: (TR02) Failure to submit UST documents electronically: not accepted in CERS (TS05) Failure to maintain maintenance records (TS11) DO monthly records are incomplete/inaccurate (TS12) DO training records are not available for review Please submit the required records/documents to this Agency and/or CERS immediately.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-12-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review. ACCEPTED. Updated CFO letter provided.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-26-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	An off-site, follow-up inspection was conducted this date (3/26/18). The items noted below are in reference to an onsite inspection of your facility conducted on 6/9/17. OUTSTANDING VIOLATIONS ? 3/26/18 NONE CORRECTED VIOLATIONS ? 3/26/18 I319 - The operator has submitted a copy of their Secondary Containment Test Report and keeps a copy onsite and available for review I673 - The operator has submitted a copy of their UST Reponse Plan and keeps a copy onsite and available for staff UST requirements met, and operating permit to be issued.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection

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Eval Date:	05-11-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-18-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	remodel need to add 300 lbs CO2
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-21-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Change status to not receive a permit, per Berg.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-09-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-12-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine UST inspection, monitoring system certification, and spill bucket testing. Consent to enter and inspect was given by Salah Mazloum. The facility has four double-walled tanks (87M, 87A, 91, WO) monitored by a Veeder Root TLS350 system. The monitor is operational for audible and visual alarms. The in-tank probes are used for overfill prevention. Positive shutdown and fail safe programming were verified. The sensors in the fuel tank annulars, turbine sumps, fill sumps, and UDCs all shutdown the turbines when submerged in fuel. The two electronic leak detectors were tested with a simulated 3 gph leak and were determined to be operational. The in-tank probes were positioned at 90% tank capacity, triggering an external audible/visual alarm for all three fuel tanks. The sensors in the waste oil tank annular and piping sump triggered an audible and visual alarm when submerged in fuel. Spill buckets were visually tested for 30 minutes. No indication of [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

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Eval General Type:	Other/Unknown
Eval Date:	06-13-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS submittal reviewed and was NOT ACCEPTED: Submittal was reviewed following on-site inspection. Please correct the following: Waste Oil Tank: Pipe Monitoring Section states that the pump automatically shut down when the leak alarm is triggered or when the tank is in fail safe. There is no pump on this tank top, please correct and re-submit. Monitoring Plan: For the Under Dispenser Containment (UDC) Monitoring Section: Under UDC Monitoring Stops Flow of Product at Dispenser- Indicate "Yes" only if flow is stopped at the individual dispensers regardless of whether or not the turbine is active (i.e. mechanical valves are closed or dispenser power is shut off). Indicate "No" if flow is not stopped at the individual dispensers (i.e. the turbine is shutdown). Please also obtain a copy of the inspection report from the owner/operator for details on other items that need to be corrected. Any questions, please feel free to contact me at minh.le@ochca.com or 714-720-1327. [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	06-21-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency received the monitoring system certification test report for a test conducted 6/8/18. The following components PASSED testing: - Tank Annular Sensors (4) - STP Sump Sensors (4) - Fill Sump Sensors (4) - UDC Sensors (4) - Audible/Visual Overfill Alarm - Fail Safe/Sensor Out - Spill Buckets Visual Test - Line Leak Detectors
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-19-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	needs to add CO2 on map
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	09-09-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has reviewed and accepted the Certification of Financial Responsibility documents in the CERS database. The form is dated 9/8/16. Violation (I583) has been corrected. Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown

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Eval Date:	09-28-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SB 989 test notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	TONY MANSOUR
Entity Title:	Not reported
Affiliation Address:	18480 Brookhurst St
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	MK OIL INC.
Entity Title:	Not reported
Affiliation Address:	18480 Brookhurst St
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050

Affiliation Type Desc:	UST Tank Operator
Entity Name:	Salah Mazloum
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST STREET
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Identification Signer
Entity Name:	Salah Mazloum
Entity Title:	OWNER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

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Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Salah Mazloum
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(310) 985-0699
Affiliation Type Desc:	Parent Corporation
Entity Name:	Arco # 01912
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	RASM LLC
Entity Title:	Not reported
Affiliation Address:	18480 Brookhurst St
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(310) 985-0699
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	SALAH MAZLOUM
Entity Title:	OWNER/OPERATOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 968-6050
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	SALAH MAZLOUM
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST STREET
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST ST.
Affiliation City:	FOUNTAIN VALLEY

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Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Tank Owner
Entity Name:	MK OIL INC.
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST STREET
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	Not reported
Affiliation Country:	UNITED STATES
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050
Affiliation Type Desc:	Document Preparer
Entity Name:	TONY MANSOUR, TM ENV. SVC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

E35 **HOME CARE SAMARITANS INC** **RCRA NonGen / NLR** **1024805171**
NE **18444 BROOKHURST** **CAL000262164**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.189 mi.
996 ft. **Site 12 of 12 in cluster E**

Relative: **Higher**
Actual: **17 ft.**

RCRA NonGen / NLR:

Date form received by agency:	11/13/2002
Facility name:	HOME CARE SAMARITANS INC
Facility address:	18444 BROOKHURST FOUNTAIN VALLEY, CA 92708-0000
EPA ID:	CAL000262164
Contact:	DR BJARNE KVARNSTROM
Contact address:	18444 BROOKHURST STREET FOUNTAIN VALLEY, CA 92708
Contact country:	Not reported
Contact telephone:	714-962-2471
Contact email:	KPKVARNSTROM@HOTMAIL.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	DR BJARNE KVARNSTROM
Owner/operator address:	18444 BROOKHURST STREET FOUNTAIN VALLEY, CA 92708
Owner/operator country:	Not reported
Owner/operator telephone:	714-962-2471
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported

HOME CARE SAMARITANS INC (Continued) **1024805171**

Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: DR BJARNE KVARNSTROM
Owner/operator address: 18444 BROOKHURST
FOUNTAIN VALLEY, CA 92708
Owner/operator country: Not reported
Owner/operator telephone: 714-962-2471
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

G36 **FOUNTAIN VALLEY AUTO WASH** **HIST UST** **U001578364**
NE **10035 ELLIS AVE** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.206 mi.
1087 ft. **Site 1 of 3 in cluster G**

Relative: **Higher**
Actual: **13 ft.**

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000042394
Facility Type: Gas Station
Other Type: RETAIL GAS CAR WASH
Contact Name: Not reported
Telephone: 7149622888
Owner Name: BEACON BAY ENTERPRISES, INC.
Owner Address: 260 NEWPORT CENTER DRIVE
Owner City,St,Zip: NEWPORT BEACH, CA 92660
Total Tanks: 0007

Tank Num: 001

FOUNTAIN VALLEY AUTO WASH (Continued) **U001578364**

Container Num:	1
Year Installed:	1972
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10
Tank Num:	002
Container Num:	2
Year Installed:	1972
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10
Tank Num:	003
Container Num:	3
Year Installed:	1972
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10
Tank Num:	004
Container Num:	4
Year Installed:	1972
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10
Tank Num:	005
Container Num:	5
Year Installed:	1972
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10
Tank Num:	006
Container Num:	6
Year Installed:	1972
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10
Tank Num:	007
Container Num:	7
Year Installed:	1972
Tank Capacity:	00012000

FOUNTAIN VALLEY AUTO WASH (Continued) **U001578364**

Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor, 10

G37 **BEACON BAY AUTO WASH/FN VALLEY** **UST** **U003432803**
NE **10035 ELLIS AVE** **SWEEPS UST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.206 mi.
1087 ft. **Site 2 of 3 in cluster G**

Relative:
Higher

Actual:
13 ft.

UST:
Facility ID: 5094
Permitting Agency: ORANGE COUNTY
Latitude: 33.69571
Longitude: -117.9516943

SWEEPS UST:
Status: Not reported
Comp Number: 5094
Number: Not reported
Board Of Equalization: 44-016335
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-005094-000001
Tank Status: Not reported
Capacity: 12000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: 7

Status: Not reported
Comp Number: 5094
Number: Not reported
Board Of Equalization: 44-016335
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-005094-000002
Tank Status: Not reported
Capacity: 12000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 5094
Number: Not reported
Board Of Equalization: 44-016335
Referral Date: Not reported

BEACON BAY AUTO WASH/FN VALLEY (Continued) **U003432803**

Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-005094-000003
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	5094
Number:	Not reported
Board Of Equalization:	44-016335
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-005094-000004
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	5094
Number:	Not reported
Board Of Equalization:	44-016335
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-005094-000005
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	5094
Number:	Not reported
Board Of Equalization:	44-016335
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-005094-000006
Tank Status:	Not reported
Capacity:	12000

BEACON BAY AUTO WASH/FN VALLEY (Continued) **U003432803**

Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 5094
Number: Not reported
Board Of Equalization: 44-016335
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-005094-000007
Tank Status: Not reported
Capacity: 12000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 5094
Number: 9
Board Of Equalization: 44-016335
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-005094-000008
Tank Status: A
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 2

Status: Active
Comp Number: 5094
Number: 9
Board Of Equalization: 44-016335
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-005094-000009
Tank Status: A
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

G38 **FOUNTAIN VALLEY AUTO WASH** **LUST** **U002095932**
NE **10035 ELLIS AVENUE** **HIST UST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708** **CA FID UST**
0.206 mi. **HIST CORTESE**
1087 ft. **Site 3 of 3 in cluster G** **CERS**

Relative:
Higher

Actual:
13 ft.

LUST:

Lead Agency:	ORANGE COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900955
Global Id:	T0605900955
Latitude:	33.69445
Longitude:	-117.952917
Status:	Completed - Case Closed
Status Date:	04/19/2006
Case Worker:	TE
RB Case Number:	083001219T
Local Agency:	ORANGE COUNTY LOP
File Location:	Local Agency Warehouse
Local Case Number:	89UT071
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0605900955
Contact Type:	Regional Board Caseworker
Contact Name:	NANCY OLSON-MARTIN
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	nolson-martin@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0605900955
Contact Type:	Local Agency Caseworker
Contact Name:	TAMARA ESCOBEDO
Organization Name:	ORANGE COUNTY LOP
Address:	1241 EAST DYER ROAD SUITE 120
City:	SANTA ANA
Email:	tescobedo@ochca.com
Phone Number:	7144336251

LUST:

Global Id:	T0605900955
Action Type:	Other
Date:	04/13/1989
Action:	Leak Reported

Global Id:	T0605900955
Action Type:	REMEDIATION
Date:	09/15/1997
Action:	Excavation

Global Id:	T0605900955
Action Type:	REMEDIATION
Date:	09/15/1997
Action:	Other (Use Description Field)

FOUNTAIN VALLEY AUTO WASH (Continued) **U002095932**

Global Id: T0605900955
Action Type: REMEDIATION
Date: 09/15/1997
Action: Soil Vapor Extraction (SVE)

Global Id: T0605900955
Action Type: RESPONSE
Date: 05/21/1992
Action: Final Remedial Action Report / Corrective Action Report

Global Id: T0605900955
Action Type: RESPONSE
Date: 05/21/1992
Action: Soil and Water Investigation Report

Global Id: T0605900955
Action Type: Other
Date: 04/13/1989
Action: Leak Discovery

Global Id: T0605900955
Action Type: ENFORCEMENT
Date: 04/19/2006
Action: Closure/No Further Action Letter

Global Id: T0605900955
Action Type: ENFORCEMENT
Date: 05/07/1992
Action: * Historical Enforcement

LUST:
Global Id: T0605900955
Status: Completed - Case Closed
Status Date: 04/19/2006

Global Id: T0605900955
Status: Open - Case Begin Date
Status Date: 04/13/1989

Global Id: T0605900955
Status: Open - Verification Monitoring
Status Date: 07/16/2002

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 89UT071
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 04/19/2006
Record ID: RO0002590

LUST REG 8:
Region: 8
County: Orange
Regional Board: Santa Ana Region
Facility Status: Post remedial action monitoring

FOUNTAIN VALLEY AUTO WASH (Continued) **U002095932**

Case Number:	083001219T
Local Case Num:	89UT071
Case Type:	Other ground water affected
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	LFOR
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	New Tank
Leak Cause:	Unknown
Leak Source:	Tank
Global ID:	T0605900955
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	4/13/1989
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	7/16/2002
Enter Date:	Not reported
GW Qualifies:	=
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.6941655
Longitude:	-117.953812
MTBE Date:	1/20/2004
Max MTBE GW:	3200
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	NOM
Staff Initials:	JK
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

HIST UST:

File Number:	0002E56E
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002E56E.pdf
Region:	Not reported

FOUNTAIN VALLEY AUTO WASH (Continued) **U002095932**

Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 30000922
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7146444460
Mail To: Not reported
Mailing Address: 260 NEWPORT CENTER DR
Mailing Address 2: Not reported
Mailing City,St,Zip: FOUNTAIN VALLEY 92708
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083001219T

CERS TANKS:
Site ID: 168745
CERS ID: 10165017
Site Name: VERIZON WIRELESS: TANAGER
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-06-2016
Violations Found: No

FOUNTAIN VALLEY AUTO WASH (Continued) **U002095932**

Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Identification Signer
Entity Name:	Myrna Allende
Entity Title:	Regulatory Specialist
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Myrna Allende
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	15505 Sand Canyon Avenue, MS D-104
Affiliation City:	Irvine
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92618
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Environmental Contact
Entity Name:	Environmental Compliance
Entity Title:	Not reported
Affiliation Address:	15505 Sand Canyon Avenue, MS D-104
Affiliation City:	Irvine
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92618
Affiliation Phone:	Not reported

FOUNTAIN VALLEY AUTO WASH (Continued) **U002095932**

Affiliation Type Desc: Legal Owner
Entity Name: Verizon Wireless
Entity Title: Not reported
Affiliation Address: 15505 Sand Canyon Avenue, MS D-104
Affiliation City: Irvine
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92618
Affiliation Phone: (949) 286-7000

Affiliation Type Desc: Operator
Entity Name: Verizon Wireless
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (949) 286-7000

Affiliation Type Desc: Parent Corporation
Entity Name: Verizon Wireless [Southern California]
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Site ID: 241470
CERS ID: T0605900955
Site Name: BEACON BAY AUTO WASH
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: TAMARA ESCOBEDO - ORANGE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1241 EAST DYER ROAD SUITE 120
Affiliation City: SANTA ANA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7144336251

Affiliation Type Desc: Regional Board Caseworker
Entity Name: NANCY OLSON-MARTIN - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

H39 **SHELL OIL CO** **RCRA-SQG** **1000288469**
SSE **18976 BROOKHURST** **SWEEPS UST** **CAD981446651**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708** **CA FID UST**
0.248 mi. **HIST CORTESE**
1307 ft. **Site 1 of 8 in cluster H** **CERS**

Relative: Higher

Actual: 17 ft.

RCRA-SQG:

Date form received by agency:	04/08/1998
Facility name:	SHELL OIL CO
Facility address:	18976 BROOKHURST FOUNTAIN VALLEY, CA 92708
EPA ID:	CAD981446651
Mailing address:	P O BOX 4453 HOUSTON, TX 77210-4453
Contact:	SONDRA BIENVENU
Contact address:	P O BOX 4453 HOUSTON, TX 77210-4453
Contact country:	US
Contact telephone:	713-241-2258
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	EQUILON ENTERPRISES LLC
Owner/operator address:	P O BOX 4453 HOUSTON, TX 77210
Owner/operator country:	Not reported
Owner/operator telephone:	713-241-2258
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

SHELL OIL CO (Continued) **1000288469**

Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/01/1996
Site name: SHELL OIL CO
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

SWEEPS UST:
Status: Active
Comp Number: 2379
Number: 9
Board Of Equalization: 44-000074
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002379-000001
Tank Status: A
Capacity: 550
Active Date: Not reported
Tank Use: PETROLEUM
STG: P
Content: Not reported
Number Of Tanks: 4

Status: Active
Comp Number: 2379
Number: 9
Board Of Equalization: 44-000074
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002379-000005
Tank Status: A

SHELL OIL CO (Continued) **1000288469**

Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 2379
Number: 9
Board Of Equalization: 44-000074
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002379-000006
Tank Status: A
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 2379
Number: 9
Board Of Equalization: 44-000074
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002379-000007
Tank Status: A
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 30000411
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7149625112
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: FOUNTAIN VALLEY 92708
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported

SHELL OIL CO (Continued) **1000288469**

Comments: Not reported
Status: Active

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083000339T

CERS TANKS:
Site ID: 364615
CERS ID: 10660663
Site Name: CARL'S JR. #381
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-17-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: CO2
Eval Division: Fountain Valley Fire
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 364615
Facility Name: Carl's Jr. #381
Env Int Type Code: HMBP
Program ID: 10660663
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.687210
Longitude: -117.953620

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Jazmyn Carpenter
Entity Title: Not reported
Affiliation Address: 716 Corporate Center Drive
Affiliation City: Pomona
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91768
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Carl's Jr.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (805) 672-2889

SHELL OIL CO (Continued) **1000288469**

Affiliation Type Desc:	Parent Corporation
Entity Name:	Carl's Jr.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Perla Salgado
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	716 Corporate Center Drive
Affiliation City:	Pomona
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91768
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Perla Salgado
Entity Title:	District Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	OC Burger Boys, LLC
Entity Title:	Not reported
Affiliation Address:	716 Corporate Center Drive
Affiliation City:	Pomona
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91768
Affiliation Phone:	(805) 660-0374

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported

SHELL OIL CO (Continued) **1000288469**

Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6000

H40 **SHELL OIL** **LUST** **S103638202**
SSE **18976 BROOKHURST** **Cortese** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708** **CERS**
0.248 mi.
1307 ft. **Site 2 of 8 in cluster H**

Relative:
Higher

Actual:
17 ft.

LUST:
Lead Agency: ORANGE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900265
Global Id: T0605900265
Latitude: 33.686958841
Longitude: -117.953903728
Status: Open - Verification Monitoring
Status Date: 05/06/2014
Case Worker: SR
RB Case Number: 083000339T
Local Agency: ORANGE COUNTY LOP
File Location: Local Agency
Local Case Number: 86UT033
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Please refer to recent Site Documents or Monitoring Reports in GeoTracker for site history. Orange County is not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants for the responsible party.

LUST:
Global Id: T0605900265
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: carl.bernhardt@waterboards.ca.gov
Phone Number: 9517824495

Global Id: T0605900265
Contact Type: Local Agency Caseworker
Contact Name: SHYAMALA RAJAGOPAL
Organization Name: ORANGE COUNTY LOP
Address: 1241 E. DYER ROAD SUITE 120
City: SANTA ANA
Email: srajagopal@ochca.com
Phone Number: 7144336262

LUST:
Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 12/27/2016
Action: File Review - Closure

Global Id: T0605900265
Action Type: ENFORCEMENT

SHELL OIL (Continued) **S103638202**

Date: 09/20/2016
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 12/23/2016
Action: File Review - Closure

Global Id: T0605900265
Action Type: Other
Date: 04/09/1986
Action: Leak Reported

Global Id: T0605900265
Action Type: RESPONSE
Date: 07/24/2013
Action: Request for Closure - Regulator Responded

Global Id: T0605900265
Action Type: RESPONSE
Date: 10/29/2013
Action: Request for Closure - Regulator Responded

Global Id: T0605900265
Action Type: RESPONSE
Date: 06/12/2014
Action: Request for Closure - Regulator Responded

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 12/27/2016
Action: Email Correspondence

Global Id: T0605900265
Action Type: RESPONSE
Date: 08/02/2018
Action: Other Workplan - Regulator Responded

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 07/13/2009
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 02/18/2017
Action: File review

Global Id: T0605900265
Action Type: RESPONSE
Date: 07/14/1986
Action: Preliminary Site Assessment Workplan

Global Id: T0605900265
Action Type: RESPONSE
Date: 11/28/2016
Action: Clean Up Fund - 5-Year Review Summary

SHELL OIL (Continued) **S103638202**

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 11/17/2010
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 11/17/2010
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 01/11/2011
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 02/15/2011
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 05/20/2011
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 07/20/2010
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 09/18/2013
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 09/19/2013
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 10/04/2012
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 11/09/2012
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 09/19/2013
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT

SHELL OIL (Continued) **S103638202**

Date: 09/28/2018
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 05/06/2014
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 10/23/2014
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 10/22/2014
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 05/23/2014
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 05/06/2014
Action: Staff Letter

Global Id: T0605900265
Action Type: REMEDIATION
Date: 03/01/1987
Action: Excavation

Global Id: T0605900265
Action Type: REMEDIATION
Date: 05/01/1987
Action: Excavation

Global Id: T0605900265
Action Type: REMEDIATION
Date: 04/01/1987
Action: Pump & Treat (P&T) Groundwater

Global Id: T0605900265
Action Type: REMEDIATION
Date: 04/15/1990
Action: Free Product Removal

Global Id: T0605900265
Action Type: REMEDIATION
Date: 09/01/1994
Action: Pump & Treat (P&T) Groundwater

Global Id: T0605900265
Action Type: REMEDIATION
Date: 04/01/1990
Action: Pump & Treat (P&T) Groundwater

SHELL OIL (Continued) **S103638202**

Global Id: T0605900265
Action Type: Other
Date: 04/09/1986
Action: Leak Discovery

Global Id: T0605900265
Action Type: RESPONSE
Date: 04/04/2014
Action: Other Report / Document

Global Id: T0605900265
Action Type: RESPONSE
Date: 06/19/2018
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 10/24/2014
Action: Email Correspondence

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 03/19/2015
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 04/14/1986
Action: Notice of Responsibility

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 05/22/2007
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 01/29/2007
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 09/17/2007
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 09/05/2006
Action: Staff Letter

LUST:
Global Id: T0605900265
Status: Open - Case Begin Date
Status Date: 04/09/1986

Global Id: T0605900265
Status: Open - Remediation

SHELL OIL (Continued) **S103638202**

Status Date: 03/01/1987

Global Id: T0605900265
Status: Open - Site Assessment
Status Date: 04/13/1987

Global Id: T0605900265
Status: Open - Verification Monitoring
Status Date: 05/06/2014

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 86UT033
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: Not reported
Record ID: RO0001552

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Pollution Characterization
Case Number:	083000339T
Local Case Num:	86UT033
Case Type:	Other ground water affected
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	NOR
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	New Tank
Leak Cause:	Unknown
Leak Source:	Tank
Global ID:	T0605900265
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	4/9/1986
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	4/13/1987
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	3/1/1987
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	=
Soil Qualifies:	=
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST

SHELL OIL (Continued) **S103638202**

Latitude:	33.6871407
Longitude:	-117.954092
MTBE Date:	6/24/2002
Max MTBE GW:	810
MTBE Concentration:	0
Max MTBE Soil:	130
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	CAB
Staff Initials:	JK
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

CORTESE:

Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0605900265
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	OPEN - VERIFICATION MONITORING
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

CERS TANKS:

Site ID:	191047
CERS ID:	T0605900265
Site Name:	SHELL OIL
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	SHYAMALA RAJAGOPAL - ORANGE COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1241 E. DYER ROAD SUITE 120
Affiliation City:	SANTA ANA
Affiliation State:	CA
Affiliation Country:	Not reported

SHELL OIL (Continued) **S103638202**

Affiliation Zip:	Not reported
Affiliation Phone:	7144336262
Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	CARL BERNHARDT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9517824495

H41 **TONY P MANAGO** **HIST UST** **U001578396**
SSE **18976 BROOKHURST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.248 mi.
1307 ft. **Site 3 of 8 in cluster H**

Relative: **Higher**

Actual: **17 ft.**

HIST UST:

File Number:	0002EDCF
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002EDCF.pdf
Region:	STATE
Facility ID:	00000004478
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	TONY P. MANAGO
Telephone:	7149625112
Owner Name:	SHELL OIL COMPANY
Owner Address:	P.O. BOX 4848
Owner City,St,Zip:	ANAHEIM, CA 92803
Total Tanks:	0005
Tank Num:	001
Container Num:	1
Year Installed:	1965
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10
Tank Num:	002
Container Num:	2
Year Installed:	1965
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	12
Leak Detection:	Stock Inventor, 10
Tank Num:	003
Container Num:	3
Year Installed:	1965
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED

TONY P MANAGO (Continued) **U001578396**

Container Construction Thickness: 1/4
Leak Detection: Stock Inventor, 10

Tank Num: 004
Container Num: 4
Year Installed: 1965
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor, 10

Tank Num: 005
Container Num: 5
Year Installed: 1970
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor, 10

Click here for Geo Tracker PDF:

H42 **TONYS SHELL SERVICE** **HIST UST** **U001578397**
SSE **18976 BROOKHURST ST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.248 mi.
1307 ft. **Site 4 of 8 in cluster H**

Relative: **Higher**
Actual: **17 ft.**

HIST UST:
File Number: 0002EDC1
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002EDC1.pdf
Region: STATE
Facility ID: 00000063334
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 7145451268
Owner Name: SHELL OIL CO.
Owner Address: ONE SHELL PLAZA, P.O. BOX 2463
Owner City,St,Zip: HOUSTON, TX 77001
Total Tanks: 0006

Tank Num: 001
Container Num: I
Year Installed: Not reported
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, None, 10

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED

TONYS SHELL SERVICE (Continued) **U001578397**

Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Tank Num: 003
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Tank Num: 004
Container Num: 4
Year Installed: Not reported
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Tank Num: 005
Container Num: 5
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 006
Container Num: 6
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: None

Click here for Geo Tracker PDF:

H43 **SHELL (3835-0710)** **UST** **U003721225**
SSE **18976 BROOKHURST ST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.248 mi.
1307 ft. **Site 5 of 8 in cluster H**

Relative: UST:
Higher
Facility ID: 2379
Actual: Permitting Agency: ORANGE COUNTY
17 ft. Latitude: 33.6886453
Longitude: -117.9523333

44
NNE
1/4-1/2
0.271 mi.
1430 ft.

REPLANET LLC
18405 BROOKHURST
FOUNTAIN VALLEY, CA 92708

SWRCY **S107138127**
N/A

Relative:
Higher

Actual:
20 ft.

SWRCY:

Reg Id:	156195
Cert Id:	RC156195.001
Mailing Address:	800 N Haven Ave Suite 120
Mailing City:	Ontario
Mailing State:	CA
Mailing Zip Code:	91764
Website:	http://www.replanet.com
Email:	Not reported
Phone Number:	(877) 737-5263
Rural:	N
Operation Begin Date:	05/01/2012
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Hours of Operation:	Mon Closed; Tue - Sat 10:00 am - 4:30 pm, Closed 1:00 pm - 1:30 pm; Sun Closed
Organization ID:	151891
Organization Name:	rePlanet LLC

H45
SSE
1/4-1/2
0.271 mi.
1430 ft.

MOBIL OIL
19002 BROOKHURST
HUNTINGTON BEACH, CA 92646

Site 6 of 8 in cluster H

LUST **S106175863**
CERS **N/A**

Relative:
Higher

Actual:
17 ft.

LUST:

Lead Agency:	ORANGE COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605957667
Global Id:	T0605957667
Latitude:	33.686452689
Longitude:	-117.953610155
Status:	Completed - Case Closed
Status Date:	04/07/2015
Case Worker:	TE
RB Case Number:	Not reported
Local Agency:	ORANGE COUNTY LOP
File Location:	Local Agency
Local Case Number:	03UT036
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Please refer to recent Site Documents or Monitoring Reports in GeoTracker for site history. Orange County is not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants for the responsible party.

LUST:

Global Id:	T0605957667
Contact Type:	Regional Board Caseworker
Contact Name:	ROSE SCOTT
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE

MOBIL OIL (Continued) **S106175863**

Email: rose.scott@waterboards.ca.gov
Phone Number: 9513206375

Global Id: T0605957667
Contact Type: Local Agency Caseworker
Contact Name: TAMARA ESCOBEDO
Organization Name: ORANGE COUNTY LOP
Address: 1241 EAST DYER ROAD SUITE 120
City: SANTA ANA
Email: tescobedo@ochca.com
Phone Number: 7144336251

LUST:
Global Id: T0605957667
Action Type: RESPONSE
Date: 11/27/2012
Action: Request for Closure - Regulator Responded

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 11/24/2008
Action: Staff Letter

Global Id: T0605957667
Action Type: Other
Date: 07/30/2003
Action: Leak Reported

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 09/22/2008
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 07/10/2009
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 07/20/2010
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 12/21/2010
Action: Staff Letter

Global Id: T0605957667
Action Type: RESPONSE
Date: 10/30/2003
Action: Preliminary Site Assessment Workplan

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 05/10/2013
Action: Staff Letter

MOBIL OIL (Continued) **S106175863**

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 11/04/2014
Action: Notification - Preclosure

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 12/15/2006
Action: Waste Discharge Requirements

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 04/07/2015
Action: Closure/No Further Action Letter

Global Id: T0605957667
Action Type: REMEDIATION
Date: 12/07/2006
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0605957667
Action Type: REMEDIATION
Date: 07/18/2011
Action: Pump & Treat (P&T) Groundwater

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 06/03/2014
Action: Notification - Public Notice of Case Closure

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 06/03/2014
Action: Notification - Public Participation Document

Global Id: T0605957667
Action Type: Other
Date: 07/30/2003
Action: Leak Discovery

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 09/22/2003
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 10/10/2006
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 07/01/2004
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT

MOBIL OIL (Continued) **S106175863**

Date: 08/30/2007
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 07/30/2003
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 08/11/2006
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 03/19/2007
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 11/28/2006
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 01/07/2005
Action: * Corrective Action Orders

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 06/21/2007
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 08/13/2007
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 11/09/2007
Action: Staff Letter

LUST:
Global Id: T0605957667
Status: Completed - Case Closed
Status Date: 04/03/2015

Global Id: T0605957667
Status: Completed - Case Closed
Status Date: 04/07/2015

Global Id: T0605957667
Status: Open - Case Begin Date
Status Date: 07/01/2003

Global Id: T0605957667

MOBIL OIL (Continued) **S106175863**

Status: Open - Eligible for Closure
Status Date: 03/22/2013

Global Id: T0605957667
Status: Open - Remediation
Status Date: 12/07/2006

Global Id: T0605957667
Status: Open - Remediation
Status Date: 07/28/2011

Global Id: T0605957667
Status: Open - Site Assessment
Status Date: 07/01/2003

Global Id: T0605957667
Status: Open - Site Assessment
Status Date: 07/30/2003

Global Id: T0605957667
Status: Open - Verification Monitoring
Status Date: 09/30/2010

Lead Agency: ORANGE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900543
Global Id: T0605900543
Latitude: 33.686517
Longitude: -117.953661
Status: Completed - Case Closed
Status Date: 12/05/1988
Case Worker: GH
RB Case Number: 083000687T
Local Agency: ORANGE COUNTY LOP
File Location: Local Agency
Local Case Number: 87UT233
Potential Media Affect: Under Investigation
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

LUST:
Global Id: T0605900543
Contact Type: Local Agency Caseworker
Contact Name: GENIECE HIGGINS
Organization Name: ORANGE COUNTY LOP
Address: 1241 EAST DYER ROAD SUITE 120
City: SANTA ANA
Email: ghiggins@ochca.com
Phone Number: 7144336260

Global Id: T0605900543
Contact Type: Regional Board Caseworker
Contact Name: ROSE SCOTT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: rose.scott@waterboards.ca.gov

MOBIL OIL (Continued) **S106175863**

Phone Number: 9513206375

LUST:
Global Id: T0605900543
Status: Completed - Case Closed
Status Date: 12/05/1988

Global Id: T0605900543
Status: Open - Case Begin Date
Status Date: 12/05/1988

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 03UT036
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 04/07/2015
Record ID: RO0003223

Region: ORANGE
Facility Id: 87UT233
Released Substance: Waste oil/Used oil
Date Closed: 12/05/1988
Record ID: RO0001784

LUST REG 8:
Region: 8
County: Orange
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083000687T
Local Case Num: 87UT233
Case Type: Undefined
Substance: Waste Oil
Qty Leaked: 0
Abate Method: Not reported
Cross Street: Not reported
Enf Type: Not reported
Funding: Not reported
How Discovered: Tank Closure
How Stopped: Close Tank
Leak Cause: Unknown
Leak Source: Unknown
Global ID: T0605900543
How Stopped Date: 9/9/9999
Enter Date: Not reported
Date Confirmation of Leak Began: Not reported
Date Preliminary Assessment Began: Not reported
Discover Date: 1/1/1965
Enforcement Date: Not reported
Close Date: 12/5/1988
Date Prelim Assessment Workplan Submitted: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring: Not reported

MOBIL OIL (Continued) **S106175863**

Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.6867008
Longitude:	-117.954075
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	RS
Staff Initials:	KC
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

CERS TANKS:

Site ID:	188470
CERS ID:	T0605900543
Site Name:	MOBIL OIL
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	ROSE SCOTT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9513206375

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	GENIECE HIGGINS - ORANGE COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1241 EAST DYER ROAD SUITE 120
Affiliation City:	SANTA ANA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7144336260

H46 **MOBIL #18-KB5** **HIST CORTESE** **S102433829**
SSE **19002 BROOKHURST** **CERS** **N/A**
1/4-1/2 **HUNTINGTON BEACH, CA 92646**
0.271 mi.
1430 ft. **Site 7 of 8 in cluster H**

Relative:
Higher

Actual:
17 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083000687T

CERS TANKS:
Site ID: 250796
CERS ID: T0605957667
Site Name: MOBIL #18-KB5
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: TAMARA ESCOBEDO - ORANGE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1241 EAST DYER ROAD SUITE 120
Affiliation City: SANTA ANA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7144336251

Affiliation Type Desc: Regional Board Caseworker
Entity Name: ROSE SCOTT - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9513206375

H47 **MOBIL #18-KB5** **LUST** **U003982220**
SSE **19002 BROOKHURST ST** **UST** **N/A**
1/4-1/2 **HUNTINGTON BEACH, CA 92646** **SWEEPS UST**
0.271 mi.
1430 ft. **Site 8 of 8 in cluster H**

Relative:
Higher

Actual:
17 ft.

LUST REG 8:
Region: 8
County: Orange
Regional Board: Santa Ana Region
Facility Status: Preliminary site assessment workplan submitted
Case Number: Not reported
Local Case Num: 03UT036
Case Type: Other ground water affected
Substance: Gasoline
Qty Leaked: 0
Abate Method: Not reported
Cross Street: Not reported
Enf Type: SEL
Funding: Not reported

MOBIL #18-KB5 (Continued) **U003982220**

How Discovered:	Tank Closure
How Stopped:	Close Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605957667
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	7/1/2003
Discover Date:	7/30/2003
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	7/30/2003
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	=
Soil Qualifies:	=
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	0
Longitude:	0
MTBE Date:	6/30/2003
Max MTBE GW:	370000
MTBE Concentration:	0
Max MTBE Soil:	78.2
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	RS
Staff Initials:	KC
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

UST:

Facility ID:	2136
Permitting Agency:	ORANGE COUNTY
Latitude:	33.6878923
Longitude:	-117.9524196

SWEEPS UST:

Status:	Active
Comp Number:	2136
Number:	9
Board Of Equalization:	44-000400
Referral Date:	09-30-92

MOBIL #18-KB5 (Continued) **U003982220**

Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002136-000001
Tank Status:	A
Capacity:	550
Active Date:	Not reported
Tank Use:	PETROLEUM
STG:	P
Content:	Not reported
Number Of Tanks:	4

Status:	Active
Comp Number:	2136
Number:	9
Board Of Equalization:	44-000400
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002136-000003
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	2136
Number:	9
Board Of Equalization:	44-000400
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002136-000004
Tank Status:	A
Capacity:	6000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	2136
Number:	9
Board Of Equalization:	44-000400
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002136-000005
Tank Status:	A
Capacity:	8000

MOBIL #18-KB5 (Continued) **U003982220**

Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

I48 **EXXON #7-3616** **SWEEPS UST** **S101589409**
SSE **19001 BROOKHURST ST** **CA FID UST** **N/A**
1/4-1/2 **HUNTINGTON BEACH, CA 92646** **HIST CORTESE**
0.289 mi.
1528 ft. **Site 1 of 3 in cluster I**

Relative:
Higher

Actual:
17 ft.

SWEEPS UST:
Status: Not reported
Comp Number: 2139
Number: Not reported
Board Of Equalization: 44-000285
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002139-000004
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: 3

Status: Not reported
Comp Number: 2139
Number: Not reported
Board Of Equalization: 44-000285
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002139-000005
Tank Status: Not reported
Capacity: 8000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 2139
Number: Not reported
Board Of Equalization: 44-000285
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002139-000006
Tank Status: Not reported
Capacity: 6000

EXXON #7-3616 (Continued) **S101589409**

Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 2139
Number: 9
Board Of Equalization: 44-000285
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002139-000001
Tank Status: A
Capacity: 1000
Active Date: Not reported
Tank Use: PETROLEUM
STG: P
Content: Not reported
Number Of Tanks: 4

Status: Active
Comp Number: 2139
Number: 9
Board Of Equalization: 44-000285
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002139-000007
Tank Status: A
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 2139
Number: 9
Board Of Equalization: 44-000285
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002139-000008
Tank Status: A
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

EXXON #7-3616 (Continued) **S101589409**

Status:	Active
Comp Number:	2139
Number:	9
Board Of Equalization:	44-000285
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002139-000009
Tank Status:	A
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	30011002
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7149645988
Mail To:	Not reported
Mailing Address:	CONSTRUCTION & MAINT
Mailing Address 2:	Not reported
Mailing City,St,Zip:	HUNTINGTON BEACH 92646
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083002614T

I49 **GARFIELD CHEVRON** **LUST** **U003433036**
SSE **19001 BROOKHURST** **HIST CORTESE** **N/A**
1/4-1/2 **HUNTINGTON BEACH, CA 92646** **CERS**
0.289 mi.
1528 ft. **Site 2 of 3 in cluster I**

Relative:
Higher

Actual:
17 ft.

LUST:

Lead Agency:	ORANGE COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605920613
Global Id:	T0605920613
Latitude:	33.6865104
Longitude:	-117.9545782
Status:	Completed - Case Closed
Status Date:	01/27/2006

GARFIELD CHEVRON (Continued) **U003433036**

Case Worker: GH
RB Case Number: Not reported
Local Agency: ORANGE COUNTY LOP
File Location: Local Agency
Local Case Number: 01UT013
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0605920613
Contact Type: Local Agency Caseworker
Contact Name: GENIECE HIGGINS
Organization Name: ORANGE COUNTY LOP
Address: 1241 EAST DYER ROAD SUITE 120
City: SANTA ANA
Email: ghiggins@ochca.com
Phone Number: 7144336260

Global Id: T0605920613
Contact Type: Regional Board Caseworker
Contact Name: MIGUEL OVIEDO
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 Main Street, Suite 500
City: RIVERSIDE
Email: miguel.oviedo@waterboards.ca.gov
Phone Number: 9517823238

LUST:
Global Id: T0605920613
Action Type: Other
Date: 06/04/2001
Action: Leak Reported

Global Id: T0605920613
Action Type: RESPONSE
Date: 09/30/2003
Action: Other Report / Document

Global Id: T0605920613
Action Type: ENFORCEMENT
Date: 10/27/2005
Action: LOP Case Closure Summary to RB

Global Id: T0605920613
Action Type: Other
Date: 06/04/2001
Action: Leak Began

Global Id: T0605920613
Action Type: Other
Date: 06/04/2001
Action: Leak Discovery

Global Id: T0605920613
Action Type: ENFORCEMENT
Date: 01/27/2006

GARFIELD CHEVRON (Continued) **U003433036**

Action: Closure/No Further Action Letter

Global Id: T0605920613
Action Type: ENFORCEMENT
Date: 04/22/2005
Action: Staff Letter

Global Id: T0605920613
Action Type: ENFORCEMENT
Date: 05/03/2004
Action: Staff Letter

Global Id: T0605920613
Action Type: ENFORCEMENT
Date: 07/19/2005
Action: Staff Letter

Global Id: T0605920613
Action Type: ENFORCEMENT
Date: 07/23/2003
Action: Staff Letter

Global Id: T0605920613
Action Type: ENFORCEMENT
Date: 03/11/2005
Action: Staff Letter

LUST:
Global Id: T0605920613
Status: Completed - Case Closed
Status Date: 01/27/2006

Global Id: T0605920613
Status: Open - Case Begin Date
Status Date: 06/04/2001

Global Id: T0605920613
Status: Open - Site Assessment
Status Date: 06/04/2001

Global Id: T0605920613
Status: Open - Site Assessment
Status Date: 03/11/2005

Lead Agency: ORANGE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900778
Global Id: T0605900778
Latitude: 33.6867267
Longitude: -117.95434
Status: Completed - Case Closed
Status Date: 10/26/1990
Case Worker: GH
RB Case Number: 083000983T
Local Agency: ORANGE COUNTY LOP
File Location: Local Agency

GARFIELD CHEVRON (Continued) **U003433036**

Local Case Number: 88UT137
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0605900778
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: carl.bernhardt@waterboards.ca.gov
Phone Number: 9517824495

Global Id: T0605900778
Contact Type: Local Agency Caseworker
Contact Name: GENIECE HIGGINS
Organization Name: ORANGE COUNTY LOP
Address: 1241 EAST DYER ROAD SUITE 120
City: SANTA ANA
Email: ghiggins@ochca.com
Phone Number: 7144336260

LUST:
Global Id: T0605900778
Action Type: Other
Date: 06/17/1988
Action: Leak Reported

Global Id: T0605900778
Action Type: Other
Date: 06/17/1988
Action: Leak Discovery

LUST:
Global Id: T0605900778
Status: Completed - Case Closed
Status Date: 10/26/1990

Global Id: T0605900778
Status: Open - Case Begin Date
Status Date: 06/17/1988

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 01UT013
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 01/27/2006
Record ID: RO0001424

LUST REG 8:
Region: 8
County: Orange
Regional Board: Santa Ana Region

GARFIELD CHEVRON (Continued) **U003433036**

Facility Status:	Case Closed
Case Number:	083000983T
Local Case Num:	88UT137
Case Type:	Other ground water affected
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Close Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605900778
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	6/17/1988
Enforcement Date:	Not reported
Close Date:	10/26/1990
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.6867267
Longitude:	-117.95434
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	CAB
Staff Initials:	KC
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

Region:	8
County:	Orange
Regional Board:	Santa Ana Region

GARFIELD CHEVRON (Continued) **U003433036**

Facility Status:	Preliminary site assessment underway
Case Number:	Not reported
Local Case Num:	01UT013
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	SEL
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	New Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605920613
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	6/4/2001
Discover Date:	6/4/2001
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	Not reported
Longitude:	Not reported
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	TME
Staff Initials:	KC
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30

GARFIELD CHEVRON (Continued) **U003433036**

Reg By: LTNKA
Reg Id: 083000983T

CERS TANKS:
Site ID: 218099
CERS ID: T0605900778
Site Name: EXXON USA
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: GENIECE HIGGINS - ORANGE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1241 EAST DYER ROAD SUITE 120
Affiliation City: SANTA ANA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7144336260

Affiliation Type Desc: Regional Board Caseworker
Entity Name: CARL BERNHARDT - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517824495

Site ID: 240428
CERS ID: T0605920613
Site Name: GARFIELD CHEVRON
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: GENIECE HIGGINS - ORANGE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1241 EAST DYER ROAD SUITE 120
Affiliation City: SANTA ANA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7144336260

Affiliation Type Desc: Regional Board Caseworker
Entity Name: MIGUEL OVIEDO - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 Main Street, Suite 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517823238

I50 **EXXON USA** **LUST** **S120834751**
SSE **19001 N BROOKHURST ST** **N/A**
1/4-1/2 **HUNTINGTON BEACH, CA 92646**
0.289 mi.
1528 ft. **Site 3 of 3 in cluster I**

Relative:
Higher

Actual:
17 ft.

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 88UT137
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 10/26/1990
Record ID: RO0002180

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51 **A AND G ELECTROPOLISH** **RCRA-SQG** **1000905600**
ENE **18330 WARD ST** **ENVIROSTOR** **CA0000883322**
1/2-1 **FOUNTAIN VALLEY, CA 92708** **CERS HAZ WASTE**
0.651 mi. **FINDS**
3438 ft. **ECHO**
HAZNET

Relative:
Higher

Actual:
25 ft.

CERS

RCRA-SQG:
Date form received by agency: 12/08/2004
Facility name: A AND G ELECTROPOLISH
Facility address: 18330 WARD ST
FOUNTAIN VALLEY, CA 92708
EPA ID: CA0000883322
Contact: CARLOS A PACHECO
Contact address: 18330 WARD ST
FOUNTAIN VALLEY, CA 92708
Contact country: US
Contact telephone: 714-968-6438
Contact email: Not reported
EPA Region: 09
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: GARY W LAKIN
Owner/operator address: 18330 WARD ST
FOUNTAIN VALLEY, CA 92708
Owner/operator country: Not reported
Owner/operator telephone: 714-968-6438
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: CARLOS PACHECO
Owner/operator address: Not reported
Not reported

A AND G ELECTROPOLISH (Continued) **1000905600**

Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 08/13/2004
Owner/Op end date: Not reported

Owner/operator name: CARLOS PACHECO
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 08/13/2004
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: Yes
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 12/08/2004
Site name: A AND G ELECTROPOLISH
Classification: Large Quantity Generator

Date form received by agency: 10/13/1994
Site name: A AND G ELECTROPOLISH
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON

A AND G ELECTROPOLISH (Continued) **1000905600**

STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 09/18/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: Local

Evaluation date: 08/25/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

ENVIROSTOR:
Facility ID: 71003582
Status: No Further Action
Status Date: 05/07/2015
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: 1
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Robert Senga
Division Branch: Cleanup Cypress
Assembly: 72
Senate: 34
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.69659
Longitude: -117.9454
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA0000883322
Alias Type: EPA Identification Number
Alias Name: 110002620744
Alias Type: EPA (FRS #)
Alias Name: 71003582
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported

A AND G ELECTROPOLISH (Continued) **1000905600**

Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS HAZ WASTE:
Site ID: 383989
CERS ID: 10538935
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 383989
Site Name: A & G ELECTROPOLISH
Violation Date: 03-30-2017
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description: Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes: Returned to compliance on 03/30/2017. The filter cake container was observed stored open. An employee covered the container upon request. CORRECTED
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 383989
Site Name: A & G ELECTROPOLISH
Violation Date: 03-18-2015
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 10/06/2015. The container of filter cake was stored closed and properly labeled. The accumulation start date was initially not on the container. It was properly labeled during the inspection. This violation was corrected during the inspection. No further corrective action is required. Please make sure all containers of hazardous waste are labeled with the required information as soon as the waste begins to accumulate.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 383989

A AND G ELECTROPOLISH (Continued) **1000905600**

Site Name:	A & G ELECTROPOLISH
Violation Date:	04-10-2017
Citation:	22 CCR 45 67450.13(a)(1) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.13(a)(1)
Violation Description:	Failure to prepare a written estimate of the cost of closing each unit which includes the cost that would be incurred for closing a treatment unit when using the owner or operator or generator's own staff and/or personal equipment taking into account any salvage value that may be realized from the sale of wastes, facility structure or equipment, land or other facility assets. This estimate shall be submitted as an attachment to the Certification of Financial Assurance for Permit by Rule and Conditionally Authorized Operations/ Maintenance page(s) of the Unified Program Consolidated Form (x/99)).
Violation Notes:	Returned to compliance on 06/06/2017. Required annual Certification Of Financial Assurance forms that should have been submitted by 3/1/17 have not been submitted. Required documents must be submitted electronically to CERS by 4/24/17.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	03-30-2017
Citation:	22 CCR 45 67450.2(b)(2) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.2(b)(2)
Violation Description:	Failure to submit the signature page for the onsite treatment notification.
Violation Notes:	A complete, valid Professional Engineer certification for the waste and treatment tanks and secondary containment structures was not available. Please have the tank system certified by a California Registered Professional Engineer and provide a copy of the certification to this Agency within 60 days. Title 22 of the California Code of Regulations (22 CCR), Chapter 15, Article 10, Sections 66265.190-202 For more information about requirements, please visit the following link: http://www.occupainfo.com/civicax/filebank/blobdload.aspx?BlobID=14782
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	03-18-2015
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 10/06/2015. VIOLATION- Generator does not comply with Article 10 (Tank Management Standards) 23CCR 66262.34(a)(1), 67450.3(c)(9)(F). The process area containment floor contains 1-1.5? of standing liquid. Previous sampling of this liquid indicated the pH was 0-1. The containment tanks are reportedly emptied every two days. Containment areas and rinse containment tanks are regulated as hazardous waste tanks unless the hazardous waste is removed within 24 hours. This is a recurring violation.
Violation Division:	Orange County Environmental Health
Violation Program:	HW

A AND G ELECTROPOLISH (Continued) **1000905600**

Violation Source: CERS

Site ID: 383989
Site Name: A & G ELECTROPOLISH
Violation Date: 03-30-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 03/30/2017. The filter cake container was observed improperly labeled. An employee affixed a proper label to the container. CORRECTED
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 383989
Site Name: A & G ELECTROPOLISH
Violation Date: 06-26-2017
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 08/02/2017. maintain housekeeping
Violation Division: Fountain Valley Fire
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-18-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for routine hazardous waste inspection. Consent to enter, inspect, and take photographs was given by Haley Lakin. The facility is regulated under the permit by rule tier for treatment of rinse waters that are hazardous due to metal concentration and corrosivity. Four rinses are treated on site. Laboratory results dated 7/11/14 indicate the following: - Alkaline soak rinse: non-hazardous for Cd, Cr, Cu, Pb, Ni, Ag, Zn, and pH - Electropolish rinse: hazardous for chromium, copper, nickel, and pH - Nitric acid rinse: hazardous for pH - DI water rinse: non-hazardous for Cd, Cr, Cu, Pb, Ni, Ag, Zn, and pH Michael Lakin stated that one batch per week is typically treated. Facility documents indicate a batch is approximately 250 gallons. The volume of hazardous wastes being treated appears likely to meet large quantity generator (LQG) volumes of 275 gallons per month for RCRA waste or 3100 gallons non-RCRA waste per year. The facility will be regulated as a [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-10-2017
Violations Found: Yes

A AND G ELECTROPOLISH (Continued) **1000905600**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	Your business is required to submit an Annual Permit Renewal Package Certification Of Financial Assurance for the onsite treatment of hazardous waste. A letter dated January 6, 2017, was mailed to your facility along with instructions on how to electronically submit the required documents by the due date of March 1, 2017. To date, your documents have not been electronically submitted to the California Environmental Reporting System (CERS). Required documents must be submitted to CERS via http://cers.calepa.ca.gov/ by April 24, 2017. Failure to submit the required documents may result in a fine of twenty-five thousand dollars ($25,000) for each day of the violation pursuant to Section 25189 of the California Health and Safety Code (H&SC).
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-06-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site for follow up inspection. Consent to enter, inspect, and take photographs was given by Haley Lakin. The facility has installed a containment tank under the process area to capture the rinse waters from hosing down of parts following processing. The containment is sloped to a low point, which allows for liquid removal. The existing secondary containment that is not covered by the containment tank was observed to be dry or had minimal moisture from the processes conducted above. The containment tank is being used for accumulation of hazardous waste and is subject to Article 10 tank management standards [22CCR 66262.34(a)(1)]. Violation (I045) was corrected during the inspection. Photographs of the new containment structure were taken during the inspection.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-26-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	PBR documents acceptable in CERS, put under review until reviewed for FA.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-30-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Consent to inspect and take photos was granted by the CEO, Gary Lakin. Susan Berg (Supervising Hazardous Materials Specialist) and Haley Lakin (Office Manager) were also present during this inspection. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date. Photos

A AND G ELECTROPOLISH (Continued) **1000905600**

were taken. The following were observed: Filter cake The filter cake container was observed stored open and improperly labeled. An employee covered the container upon request and affixed a proper label to the container. Hazardous waste disposal documents and employee training records dated 6/29/16 were reviewed. The Business Emergency Plan was available for review. A copy of this report will be sent to haley@agelectropolish.com

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-26-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: updated need BEP
Eval Division: Fountain Valley Fire
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-10-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On site for follow up inspection to discuss facility compliance and violations observed on 6/25/14. The following conditions were observed: - Container of oily liquid has been removed from the outside storage area - Manifest for hauling of oily liquid dated 6/30/14 Violations (W009), (W010), and (W013) have been corrected. Violation (W022) was cited on a previous inspection report and remains outstanding. Chemical spillage was observed in the secondary containment on this date. Michael Lakin measured the depth of the liquid in containment to be 1/2-3/4" at two separate locations. A pH measurement of the liquid in containment was taken on 6/26/14, and indicated a pH of 0-1. The secondary containment under the chemical process tanks was observed to be continuously wet. Mr. Lakin stated that the containment floor is not cleaned daily, and could not specify the last time the grates/walkway had been removed to allow for cleaning. Due to the hazardous nature of [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-08-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: INSPECTOR COMMENTS On site for follow up inspection to assess conditions that were cited for violations during the routine inspection on 6/25/14. Consent to enter was given by Haley and Michael Lakin. Observed the process area containment. Tanks to catch rinse waters and process chemicals have been installed under the work platform, within the secondary containment. Mr. Lakin confirmed that the tanks are emptied into the treatment system daily. The waste analysis plan, waste analysis records, written inspection schedule, and closure plan are available for review. The waste analysis records dated 7/24/14 indicate the following: - Pre-grab alkaline soak:

A AND G ELECTROPOLISH (Continued) **1000905600**

	non-hazardous for metals and pH - Electropolish rinse: hazardous for Cr, Cu, Ni, and pH (1.1) - Nitric rinse: hazardous for pH (1.4) - DI water: non-hazardous for metals and pH Violations (X009), (X016), and (X018) have been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Tiered permitting annual notification documents declined in CERS due to: Facility and Unit pages: the facility is regulated for hazardous waste treatment under the PBR tier. It has a PBR unit, not CA (conditionally authorized). Please make the necessary revisions and resubmit. FA information will be reviewed separately.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-08-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for follow up inspection to assess conditions that were cited for violations during the routine inspection on 6/25/14. Consent to enter was given by Haley and Michael Lakin. Observed the process area containment. Tanks to catch rinse waters and process chemicals have been installed under the work platform, within the secondary containment. Mr. Lakin confirmed that the tanks are emptied into the treatment system daily. Violation (W022) has been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-22-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspector Comments: Please be advised that this Agency has reviewed the 2016 Tiered Permitting Financial Assurance Self Certification for this facility. Breakdown of closure costs was not submitted. Breakdown of closure costs must be submitted electronically by 3/4/16.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS

A AND G ELECTROPOLISH (Continued) **1000905600**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-18-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine Permit by Rule inspection. Consent to enter, inspect, and take photographs was given by Haley Lakin. The facility conducts treatment of rinses with aqueous waste with metals and acid under Permit by Rule regulation. There is one treatment unit. There have been no changes to the system and no releases in the previous three years. The tank system is labeled with the required information. The process area containment floor contains 1-1.5? of standing liquid. Previous sampling of this liquid indicated the pH was 0-1. The following documents were available for review: inspection log, waste analysis plan, waste analysis records, closure plan, sewer agency permit and discharge records, Phase 1 Environmental checklist, and PE certification for hazardous waste treatment tanks and secondary containment dated 7/29/11. The PE certification for tanks and containment must be conducted every 5 years.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-30-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine Tiered Permit, Permit by Rule (PBR) inspection. Consent to inspect and take photos was granted by the CEO, Gary Lakin. Susan Berg (Supervising Hazardous Materials Specialist) and Haley Lakin (Office Manager) were also present during this inspection. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date, and no photos were taken. The following were properly labeled: T2 Waste Water Tank T3 Settling Tank T4 Filter Press The following documents were reviewed: Industrial Wastewater Discharge Class I Permit, tank inspection schedule and log, wastewater discharge log, waste analysis plan, annual notification (made via CERS), annual notification acknowledgment letter from this Agency, and the Closure Plan. Hazardous waste disposal documents, employee training records and the Business Emergency Plan were also available for review. A complete, valid [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-17-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine Tiered Permit, Permit by Rule (PBR) inspection. Consent to inspect and take photos was granted by the Mike Lakin. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date, and no photos were taken. The following were properly labeled: T2 Waste Water Tank T3 Settling Tank T4 Filter Press The following documents were reviewed: Industrial Wastewater Discharge Class I Permit, tank inspection schedule and log, wastewater discharge

A AND G ELECTROPOLISH (Continued) **1000905600**

log, waste analysis plan, annual notification (made via CERS), annual notification acknowledgment letter from this Agency, and the Closure Plan. Professional Engineer Site Assessment from the previous year was reviewed as well. Hazardous waste manifests and tank logs were reviewed during the continuation inspection conducted 4/27/18. The weight of hazardous waste generated per month indicate that this facility falls [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-02-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: ADMINISTRATIVE ENFORCEMENT ORDER Administrative Enforcement Order Issued this date. Consent Order signed for the following corrective actions: 11.1 By Thursday, June 30, 2016, Respondent must remove any accumulated hazardous waste liquid from the process area containment floor. Respondent must develop a system to maintain the process floors free of any accumulation of hazardous waste liquid. 11.2 Respondent must properly label all hazardous waste containers, including the filter cake container, with all required elements to include ?Hazardous Waste?, name and address of generator, physical and chemical characteristics of the Hazardous Waste, and the starting accumulation date. At the time of the meeting, Respondent has complied with this requirement. SEP Supplemental Environmental Project (SEP) for modification of the current secondary containment system to prevent accumulation of hazardous waste inside the process area floor and containment. The SEP shall [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-06-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and accepted annual financial assurance form submitted to CERS on 6/5/17. Violation I278 regarding failure to prepare a written estimate of the cost of closing treatment unit cited in the inspection report dated 4/10/17, has been corrected.

Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Enforcement Action:
Site ID: 383989
Site Name: A & G ELECTROPOLISH
Site Address: 18330 WARD ST
Site City: FOUNTAIN VALLEY
Site Zip: 92708
Enf Action Date: 06-02-2015
Enf Action Type: AEO - Unified Program
Enf Action Description: Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes: Fines/Penalties Assessed: $20,000.00. SEPs Value: $15,000.00. A&G ELECTROPOLISH CEO GARY LAKIN 18330 WARD STREET FOUNTAIN VALLEY, CA

A AND G ELECTROPOLISH (Continued) **1000905600**

92708 FA0052258 HW PR0062372 PBR PR0062375.
Enf Action Division: Orange County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 383989
Facility Name: A & G ELECTROPOLISH
Env Int Type Code: HMBP
Program ID: 10538935
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.697160
Longitude: -117.945530

Affiliation:
Affiliation Type Desc: Onsite Treatment Unit Owner Operator
Entity Name: Haley Lakin
Entity Title: Office Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Michael Lakin
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (714) 968-6438

Affiliation Type Desc: Document Preparer
Entity Name: Haley Lakin
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Gary Lakin
Entity Title: Not reported
Affiliation Address: 18330 WARD ST
Affiliation City: FOUNTAIN VALLEY
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92708
Affiliation Phone: Not reported

A AND G ELECTROPOLISH (Continued) **1000905600**

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	18330 WARD STREET
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Haley Lakin
Entity Title:	Office Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Gary Lakin
Entity Title:	Not reported
Affiliation Address:	18330 Ward Street
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6438

Affiliation Type Desc:	Parent Corporation
Entity Name:	A & G ELECTROPOLISH
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Site ID:	383989
CERS ID:	10538935
CERS Description:	Hazardous Waste Onsite Treatment

Violations:

Site ID:	383989
Site Name:	A & G ELECTROPOLISH

A AND G ELECTROPOLISH (Continued) **1000905600**

Violation Date:	03-30-2017
Citation:	22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 03/30/2017. The filter cake container was observed stored open. An employee covered the container upon request. CORRECTED
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	03-18-2015
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 10/06/2015. The container of filter cake was stored closed and properly labeled. The accumulation start date was initially not on the container. It was properly labeled during the inspection. This violation was corrected during the inspection. No further corrective action is required. Please make sure all containers of hazardous waste are labeled with the required information as soon as the waste begins to accumulate.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	04-10-2017
Citation:	22 CCR 45 67450.13(a)(1) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.13(a)(1)
Violation Description:	Failure to prepare a written estimate of the cost of closing each unit which includes the cost that would be incurred for closing a treatment unit when using the owner or operator or generator's own staff and/or personal equipment taking into account any salvage value that may be realized from the sale of wastes, facility structure or equipment, land or other facility assets. This estimate shall be submitted as an attachment to the Certification of Financial Assurance for Permit by Rule and Conditionally Authorized Operations/ Maintenance page(s) of the Unified Program Consolidated Form (x/99)).
Violation Notes:	Returned to compliance on 06/06/2017. Required annual Certification Of Financial Assurance forms that should have been submitted by 3/1/17 have not been submitted. Required documents must be submitted electronically to CERS by 4/24/17.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS

A AND G ELECTROPOLISH (Continued) **1000905600**

Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	03-30-2017
Citation:	22 CCR 45 67450.2(b)(2) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.2(b)(2)
Violation Description:	Failure to submit the signature page for the onsite treatment notification.
Violation Notes:	A complete, valid Professional Engineer certification for the waste and treatment tanks and secondary containment structures was not available. Please have the tank system certified by a California Registered Professional Engineer and provide a copy of the certification to this Agency within 60 days. Title 22 of the California Code of Regulations (22 CCR), Chapter 15, Article 10, Sections 66265.190-202 For more information about requirements, please visit the following link: http://www.occupainfo.com/civicax/filebank/blobdload.aspx?BlobID=14782
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS

Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	03-18-2015
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 10/06/2015. VIOLATION- Generator does not comply with Article 10 (Tank Management Standards) 23CCR 66262.34(a)(1), 67450.3(c)(9)(F). The process area containment floor contains 1-1.5? of standing liquid. Previous sampling of this liquid indicated the pH was 0-1. The containment tanks are reportedly emptied every two days. Containment areas and rinse containment tanks are regulated as hazardous waste tanks unless the hazardous waste is removed within 24 hours. This is a recurring violation.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	03-30-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 03/30/2017. The filter cake container was observed improperly labeled. An employee affixed a proper label to the container. CORRECTED
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	383989
Site Name:	A & G ELECTROPOLISH

A AND G ELECTROPOLISH (Continued) **1000905600**

Violation Date:	06-26-2017
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 08/02/2017. maintain housekeeping
Violation Division:	Fountain Valley Fire
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-18-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine hazardous waste inspection. Consent to enter, inspect, and take photographs was given by Haley Lakin. The facility is regulated under the permit by rule tier for treatment of rinse waters that are hazardous due to metal concentration and corrosivity. Four rinses are treated on site. Laboratory results dated 7/11/14 indicate the following: - Alkaline soak rinse: non-hazardous for Cd, Cr, Cu, Pb, Ni, Ag, Zn, and pH - Electropolish rinse: hazardous for chromium, copper, nickel, and pH - Nitric acid rinse: hazardous for pH - DI water rinse: non-hazardous for Cd, Cr, Cu, Pb, Ni, Ag, Zn, and pH Michael Lakin stated that one batch per week is typically treated. Facility documents indicate a batch is approximately 250 gallons. The volume of hazardous wastes being treated appears likely to meet large quantity generator (LQG) volumes of 275 gallons per month for RCRA waste or 3100 gallons non-RCRA waste per year. The facility will be regulated as a [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-10-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Your business is required to submit an Annual Permit Renewal Package Certification Of Financial Assurance for the onsite treatment of hazardous waste. A letter dated January 6, 2017, was mailed to your facility along with instructions on how to electronically submit the required documents by the due date of March 1, 2017. To date, your documents have not been electronically submitted to the California Environmental Reporting System (CERS). Required documents must be submitted to CERS via http://cers.calepa.ca.gov/ by April 24, 2017. Failure to submit the required documents may result in a fine of twenty-five thousand dollars ($25,000) for each day of the violation pursuant to Section 25189 of the California Health and Safety Code (H&SC).
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	10-06-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency

A AND G ELECTROPOLISH (Continued) **1000905600**

Eval Notes:	On site for follow up inspection. Consent to enter, inspect, and take photographs was given by Haley Lakin. The facility has installed a containment tank under the process area to capture the rinse waters from hosing down of parts following processing. The containment is sloped to a low point, which allows for liquid removal. The existing secondary containment that is not covered by the containment tank was observed to be dry or had minimal moisture from the processes conducted above. The containment tank is being used for accumulation of hazardous waste and is subject to Article 10 tank management standards [22CCR 66262.34(a)(1)]. Violation (I045) was corrected during the inspection. Photographs of the new containment structure were taken during the inspection.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-26-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	PBR documents acceptable in CERS, put under review until reviewed for FA.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-30-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Consent to inspect and take photos was granted by the CEO, Gary Lakin. Susan Berg (Supervising Hazardous Materials Specialist) and Haley Lakin (Office Manager) were also present during this inspection. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date. Photos were taken. The following were observed: Filter cake The filter cake container was observed stored open and improperly labeled. An employee covered the container upon request and affixed a proper label to the container. Hazardous waste disposal documents and employee training records dated 6/29/16 were reviewed. The Business Emergency Plan was available for review. A copy of this report will be sent to haley@agelectropolish.com
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-26-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	updated need BEP
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown

A AND G ELECTROPOLISH (Continued) **1000905600**

Eval Date:	07-10-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site for follow up inspection to discuss facility compliance and violations observed on 6/25/14. The following conditions were observed: - Container of oily liquid has been removed from the outside storage area - Manifest for hauling of oily liquid dated 6/30/14 Violations (W009), (W010), and (W013) have been corrected. Violation (W022) was cited on a previous inspection report and remains outstanding. Chemical spillage was observed in the secondary containment on this date. Michael Lakin measured the depth of the liquid in containment to be 1/2-3/4" at two separate locations. A pH measurement of the liquid in containment was taken on 6/26/14, and indicated a pH of 0-1. The secondary containment under the chemical process tanks was observed to be continuously wet. Mr. Lakin stated that the containment floor is not cleaned daily, and could not specify the last time the grates/walkway had been removed to allow for cleaning. Due to the hazardous nature of [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-08-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for follow up inspection to assess conditions that were cited for violations during the routine inspection on 6/25/14. Consent to enter was given by Haley and Michael Lakin. Observed the process area containment. Tanks to catch rinse waters and process chemicals have been installed under the work platform, within the secondary containment. Mr. Lakin confirmed that the tanks are emptied into the treatment system daily. The waste analysis plan, waste analysis records, written inspection schedule, and closure plan are available for review. The waste analysis records dated 7/24/14 indicate the following: - Pre-grab alkaline soak: non-hazardous for metals and pH - Electropolish rinse: hazardous for Cr, Cu, Ni, and pH (1.1) - Nitric rinse: hazardous for pH (1.4) - DI water: non-hazardous for metals and pH Violations (X009), (X016), and (X018) have been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Tiered permitting annual notification documents declined in CERS due to: Facility and Unit pages: the facility is regulated for hazardous waste treatment under the PBR tier. It has a PBR unit, not CA (conditionally authorized). Please make the necessary revisions and resubmit. FA information will be reviewed separately.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS

A AND G ELECTROPOLISH (Continued) **1000905600**

Eval General Type:	Other/Unknown
Eval Date:	09-08-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for follow up inspection to assess conditions that were cited for violations during the routine inspection on 6/25/14. Consent to enter was given by Haley and Michael Lakin. Observed the process area containment. Tanks to catch rinse waters and process chemicals have been installed under the work platform, within the secondary containment. Mr. Lakin confirmed that the tanks are emptied into the treatment system daily. Violation (W022) has been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-22-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspector Comments: Please be advised that this Agency has reviewed the 2016 Tiered Permitting Financial Assurance Self Certification for this facility. Breakdown of closure costs was not submitted. Breakdown of closure costs must be submitted electronically by 3/4/16.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-18-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine Permit by Rule inspection. Consent to enter, inspect, and take photographs was given by Haley Lakin. The facility conducts treatment of rinses with aqueous waste with metals and acid under Permit by Rule regulation. There is one treatment unit. There have been no changes to the system and no releases in the previous three years. The tank system is labeled with the required information. The process area containment floor contains 1-1.5? of standing liquid. Previous sampling of this liquid indicated the pH was 0-1. The following documents were available for review: inspection log, waste analysis plan, waste analysis records, closure plan, sewer agency permit and discharge records, Phase 1 Environmental checklist, and PE certification for hazardous waste treatment tanks and secondary containment dated 7/29/11. The PE certification for tanks and containment must be conducted every 5 years.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR

A AND G ELECTROPOLISH (Continued) **1000905600**

Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-30-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine Tiered Permit, Permit by Rule (PBR) inspection. Consent to inspect and take photos was granted by the CEO, Gary Lakin. Susan Berg (Supervising Hazardous Materials Specialist) and Haley Lakin (Office Manager) were also present during this inspection. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date, and no photos were taken. The following were properly labeled: T2 Waste Water Tank T3 Settling Tank T4 Filter Press The following documents were reviewed: Industrial Wastewater Discharge Class I Permit, tank inspection schedule and log, wastewater discharge log, waste analysis plan, annual notification (made via CERS), annual notification acknowledgment letter from this Agency, and the Closure Plan. Hazardous waste disposal documents, employee training records and the Business Emergency Plan were also available for review. A complete, valid [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-17-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine Tiered Permit, Permit by Rule (PBR) inspection. Consent to inspect and take photos was granted by the Mike Lakin. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date, and no photos were taken. The following were properly labeled: T2 Waste Water Tank T3 Settling Tank T4 Filter Press The following documents were reviewed: Industrial Wastewater Discharge Class I Permit, tank inspection schedule and log, wastewater discharge log, waste analysis plan, annual notification (made via CERS), annual notification acknowledgment letter from this Agency, and the Closure Plan. Professional Engineer Site Assessment from the previous year was reviewed as well. Hazardous waste manifests and tank logs were reviewed during the continuation inspection conducted 4/27/18. The weight of hazardous waste generated per month indicate that this facility falls [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-02-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	ADMINISTRATIVE ENFORCEMENT ORDER Administrative Enforcement Order Issued this date. Consent Order signed for the following corrective actions: 11.1 By Thursday, June 30, 2016, Respondent must remove any accumulated hazardous waste liquid from the process area containment floor. Respondent must develop a system to maintain the process floors

A AND G ELECTROPOLISH (Continued) **1000905600**

free of any accumulation of hazardous waste liquid. 11.2 Respondent must properly label all hazardous waste containers, including the filter cake container, with all required elements to include ?Hazardous Waste?, name and address of generator, physical and chemical characteristics of the Hazardous Waste, and the starting accumulation date. At the time of the meeting, Respondent has complied with this requirement. SEP Supplemental Environmental Project (SEP) for modification of the current secondary containment system to prevent accumulation of hazardous waste inside the process area floor and containment. The SEP shall [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-06-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and accepted annual financial assurance form submitted to CERS on 6/5/17. Violation I278 regarding failure to prepare a written estimate of the cost of closing treatment unit cited in the inspection report dated 4/10/17, has been corrected.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Enforcement Action:
Site ID: 383989
Site Name: A & G ELECTROPOLISH
Site Address: 18330 WARD ST
Site City: FOUNTAIN VALLEY
Site Zip: 92708
Enf Action Date: 06-02-2015
Enf Action Type: AEO - Unified Program
Enf Action Description: Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes: Fines/Penalties Assessed: $20,000.00. SEPs Value: $15,000.00. A&G ELECTROPOLISH CEO GARY LAKIN 18330 WARD STREET FOUNTAIN VALLEY, CA 92708 FA0052258 HW PR0062372 PBR PR0062375.
Enf Action Division: Orange County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 383989
Facility Name: A & G ELECTROPOLISH
Env Int Type Code: HMBP
Program ID: 10538935
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.697160
Longitude: -117.945530

Affiliation:
Affiliation Type Desc: Onsite Treatment Unit Owner Operator
Entity Name: Haley Lakin
Entity Title: Office Manager

A AND G ELECTROPOLISH (Continued) **1000905600**

Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Michael Lakin
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 968-6438

Affiliation Type Desc:	Document Preparer
Entity Name:	Haley Lakin
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Gary Lakin
Entity Title:	Not reported
Affiliation Address:	18330 WARD ST
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	18330 WARD STREET
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Haley Lakin
Entity Title:	Office Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

A AND G ELECTROPOLISH (Continued) **1000905600**

Affiliation Type Desc:	Legal Owner
Entity Name:	Gary Lakin
Entity Title:	Not reported
Affiliation Address:	18330 Ward Street
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6438

Affiliation Type Desc:	Parent Corporation
Entity Name:	A & G ELECTROPOLISH
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

FINDS:

Registry ID: 110002620744

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000905600
Registry ID:	110002620744
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002620744

A AND G ELECTROPOLISH (Continued) **1000905600**

HAZNET:

Site Name:	A AND G ELECTROPOLISH
Year:	2017
GEPAID:	CA0000883322
Contact:	GARY W LAKIN
Telephone:	7149686438
Mailing Name:	Not reported
Mailing Address:	18330 WARD ST
Mailing City,St,Zip:	FOUNTAIN VALLEY, CA 927080000
Gen County:	Orange
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Tons:	0.019
CA Waste Code:	221-Waste oil and mixed oil
Method:	H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Orange

Site Name:	A AND G ELECTROPOLISH
Year:	2017
GEPAID:	CA0000883322
Contact:	GARY W LAKIN
Telephone:	7149686438
Mailing Name:	Not reported
Mailing Address:	18330 WARD ST
Mailing City,St,Zip:	FOUNTAIN VALLEY, CA 927080000
Gen County:	Orange
TSD EPA ID:	NVT330010000
TSD County:	99
Tons:	0.1875
CA Waste Code:	181-Other inorganic solid waste
Method:	H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Orange

Site Name:	A AND G ELECTROPOLISH
Year:	2016
GEPAID:	CA0000883322
Contact:	GARY W LAKIN
Telephone:	7149686438
Mailing Name:	Not reported
Mailing Address:	18330 WARD ST
Mailing City,St,Zip:	FOUNTAIN VALLEY, CA 927080000
Gen County:	Orange
TSD EPA ID:	NVT330010000
TSD County:	99
Tons:	0.9
CA Waste Code:	181-Other inorganic solid waste
Method:	H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Orange

Site Name:	A AND G ELECTROPOLISH
Year:	2016
GEPAID:	CA0000883322
Contact:	GARY W LAKIN
Telephone:	7149686438

A AND G ELECTROPOLISH (Continued) **1000905600**

Mailing Name: Not reported
Mailing Address: 18330 WARD ST
Mailing City,St,Zip: FOUNTAIN VALLEY, CA 927080000
Gen County: Orange
TSD EPA ID: CAT000646117
TSD County: Kings
Tons: 0.075
CA Waste Code: 181-Other inorganic solid waste
Method: H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Orange

Site Name: A AND G ELECTROPOLISH
Year: 2016
GEPAID: CA0000883322
Contact: GARY W LAKIN
Telephone: 7149686438
Mailing Name: Not reported
Mailing Address: 18330 WARD ST
Mailing City,St,Zip: FOUNTAIN VALLEY, CA 927080000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 0.038
CA Waste Code: 221-Waste oil and mixed oil
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Orange

Click this hyperlink while viewing on your computer to access
19 additional CA_HAZNET: record(s) in the EDR Site Report.

CERS TANKS:
Site ID: 383989
CERS ID: 10538935
Site Name: A & G ELECTROPOLISH
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 383989
Site Name: A & G ELECTROPOLISH
Violation Date: 03-30-2017
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description: Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes: Returned to compliance on 03/30/2017. The filter cake container was observed stored open. An employee covered the container upon request. CORRECTED
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

A AND G ELECTROPOLISH (Continued) **1000905600**

Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	03-18-2015
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 10/06/2015. The container of filter cake was stored closed and properly labeled. The accumulation start date was initially not on the container. It was properly labeled during the inspection. This violation was corrected during the inspection. No further corrective action is required. Please make sure all containers of hazardous waste are labeled with the required information as soon as the waste begins to accumulate.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	04-10-2017
Citation:	22 CCR 45 67450.13(a)(1) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.13(a)(1)
Violation Description:	Failure to prepare a written estimate of the cost of closing each unit which includes the cost that would be incurred for closing a treatment unit when using the owner or operator or generator's own staff and/or personal equipment taking into account any salvage value that may be realized from the sale of wastes, facility structure or equipment, land or other facility assets. This estimate shall be submitted as an attachment to the Certification of Financial Assurance for Permit by Rule and Conditionally Authorized Operations/ Maintenance page(s) of the Unified Program Consolidated Form (x/99)).
Violation Notes:	Returned to compliance on 06/06/2017. Required annual Certification Of Financial Assurance forms that should have been submitted by 3/1/17 have not been submitted. Required documents must be submitted electronically to CERS by 4/24/17.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS

Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	03-30-2017
Citation:	22 CCR 45 67450.2(b)(2) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.2(b)(2)
Violation Description:	Failure to submit the signature page for the onsite treatment notification.
Violation Notes:	A complete, valid Professional Engineer certification for the waste and treatment tanks and secondary containment structures was not available. Please have the tank system certified by a California Registered Professional Engineer and provide a copy of the certification to this Agency within 60 days. Title 22 of the California Code of Regulations (22 CCR), Chapter 15, Article 10, Sections 66265.190-202 For more information about requirements, please visit the following link:

A AND G ELECTROPOLISH (Continued) **1000905600**

http://www.occupainfo.com/civicax/filebank/blobdload.aspx?BlobID=14782
Violation Division: Orange County Environmental Health
Violation Program: PBR
Violation Source: CERS

Site ID: 383989
Site Name: A & G ELECTROPOLISH
Violation Date: 03-18-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 10/06/2015. VIOLATION- Generator does not comply with Article 10 (Tank Management Standards) 23CCR 66262.34(a)(1), 67450.3(c)(9)(F). The process area containment floor contains 1-1.5? of standing liquid. Previous sampling of this liquid indicated the pH was 0-1. The containment tanks are reportedly emptied every two days. Containment areas and rinse containment tanks are regulated as hazardous waste tanks unless the hazardous waste is removed within 24 hours. This is a recurring violation.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 383989
Site Name: A & G ELECTROPOLISH
Violation Date: 03-30-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 03/30/2017. The filter cake container was observed improperly labeled. An employee affixed a proper label to the container. CORRECTED
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 383989
Site Name: A & G ELECTROPOLISH
Violation Date: 06-26-2017
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 08/02/2017. maintain housekeeping
Violation Division: Fountain Valley Fire
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-18-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for routine hazardous waste inspection. Consent to enter,

A AND G ELECTROPOLISH (Continued) **1000905600**

inspect, and take photographs was given by Haley Lakin. The facility is regulated under the permit by rule tier for treatment of rinse waters that are hazardous due to metal concentration and corrosivity. Four rinses are treated on site. Laboratory results dated 7/11/14 indicate the following: - Alkaline soak rinse: non-hazardous for Cd, Cr, Cu, Pb, Ni, Ag, Zn, and pH - Electropolish rinse: hazardous for chromium, copper, nickel, and pH - Nitric acid rinse: hazardous for pH - DI water rinse: non-hazardous for Cd, Cr, Cu, Pb, Ni, Ag, Zn, and pH Michael Lakin stated that one batch per week is typically treated. Facility documents indicate a batch is approximately 250 gallons. The volume of hazardous wastes being treated appears likely to meet large quantity generator (LQG) volumes of 275 gallons per month for RCRA waste or 3100 gallons non-RCRA waste per year. The facility will be regulated as a [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-10-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Your business is required to submit an Annual Permit Renewal Package Certification Of Financial Assurance for the onsite treatment of hazardous waste. A letter dated January 6, 2017, was mailed to your facility along with instructions on how to electronically submit the required documents by the due date of March 1, 2017. To date, your documents have not been electronically submitted to the California Environmental Reporting System (CERS). Required documents must be submitted to CERS via http://cers.calepa.ca.gov/ by April 24, 2017. Failure to submit the required documents may result in a fine of twenty-five thousand dollars ($25,000) for each day of the violation pursuant to Section 25189 of the California Health and Safety Code (H&SC).
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-06-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On site for follow up inspection. Consent to enter, inspect, and take photographs was given by Haley Lakin. The facility has installed a containment tank under the process area to capture the rinse waters from hosing down of parts following processing. The containment is sloped to a low point, which allows for liquid removal. The existing secondary containment that is not covered by the containment tank was observed to be dry or had minimal moisture from the processes conducted above. The containment tank is being used for accumulation of hazardous waste and is subject to Article 10 tank management standards [22CCR 66262.34(a)(1)]. Violation (I045) was corrected during the inspection. Photographs of the new containment structure were taken during the inspection.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

A AND G ELECTROPOLISH (Continued) **1000905600**

Eval General Type:	Other/Unknown
Eval Date:	02-26-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	PBR documents acceptable in CERS, put under review until reviewed for FA.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-30-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Consent to inspect and take photos was granted by the CEO, Gary Lakin. Susan Berg (Supervising Hazardous Materials Specialist) and Haley Lakin (Office Manager) were also present during this inspection. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date. Photos were taken. The following were observed: Filter cake The filter cake container was observed stored open and improperly labeled. An employee covered the container upon request and affixed a proper label to the container. Hazardous waste disposal documents and employee training records dated 6/29/16 were reviewed. The Business Emergency Plan was available for review. A copy of this report will be sent to haley@agelectropolish.com
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-26-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	updated need BEP
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-10-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site for follow up inspection to discuss facility compliance and violations observed on 6/25/14. The following conditions were observed: - Container of oily liquid has been removed from the outside storage area - Manifest for hauling of oily liquid dated 6/30/14 Violations (W009), (W010), and (W013) have been corrected. Violation (W022) was cited on a previous inspection report and remains outstanding. Chemical spillage was observed in the secondary containment on this date. Michael Lakin measured the depth of the liquid in containment to be 1/2-3/4" at two separate locations. A pH measurement of the liquid in containment was taken on 6/26/14, and indicated a pH of 0-1. The secondary containment under the chemical process tanks was observed to be continuously wet. Mr. Lakin stated that the containment floor is not cleaned daily, and could not specify

A AND G ELECTROPOLISH (Continued) **1000905600**

	the last time the grates/walkway had been removed to allow for cleaning. Due to the hazardous nature of [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-08-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for follow up inspection to assess conditions that were cited for violations during the routine inspection on 6/25/14. Consent to enter was given by Haley and Michael Lakin. Observed the process area containment. Tanks to catch rinse waters and process chemicals have been installed under the work platform, within the secondary containment. Mr. Lakin confirmed that the tanks are emptied into the treatment system daily. The waste analysis plan, waste analysis records, written inspection schedule, and closure plan are available for review. The waste analysis records dated 7/24/14 indicate the following: - Pre-grab alkaline soak: non-hazardous for metals and pH - Electropolish rinse: hazardous for Cr, Cu, Ni, and pH (1.1) - Nitric rinse: hazardous for pH (1.4) - DI water: non-hazardous for metals and pH Violations (X009), (X016), and (X018) have been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Tiered permitting annual notification documents declined in CERS due to: Facility and Unit pages: the facility is regulated for hazardous waste treatment under the PBR tier. It has a PBR unit, not CA (conditionally authorized). Please make the necessary revisions and resubmit. FA information will be reviewed separately.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-08-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for follow up inspection to assess conditions that were cited for violations during the routine inspection on 6/25/14. Consent to enter was given by Haley and Michael Lakin. Observed the process area containment. Tanks to catch rinse waters and process chemicals have been installed under the work platform, within the secondary containment. Mr. Lakin confirmed that the tanks are emptied into the treatment system daily. Violation (W022) has been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

A AND G ELECTROPOLISH (Continued) **1000905600**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-22-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspector Comments: Please be advised that this Agency has reviewed the 2016 Tiered Permitting Financial Assurance Self Certification for this facility. Breakdown of closure costs was not submitted. Breakdown of closure costs must be submitted electronically by 3/4/16.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-18-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine Permit by Rule inspection. Consent to enter, inspect, and take photographs was given by Haley Lakin. The facility conducts treatment of rinses with aqueous waste with metals and acid under Permit by Rule regulation. There is one treatment unit. There have been no changes to the system and no releases in the previous three years. The tank system is labeled with the required information. The process area containment floor contains 1-1.5? of standing liquid. Previous sampling of this liquid indicated the pH was 0-1. The following documents were available for review: inspection log, waste analysis plan, waste analysis records, closure plan, sewer agency permit and discharge records, Phase 1 Environmental checklist, and PE certification for hazardous waste treatment tanks and secondary containment dated 7/29/11. The PE certification for tanks and containment must be conducted every 5 years.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-30-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine Tiered Permit, Permit by Rule (PBR) inspection. Consent to inspect and take photos was granted by the CEO, Gary Lakin. Susan Berg (Supervising Hazardous Materials Specialist) and Haley Lakin (Office Manager) were also present during this inspection. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date, and no photos were taken. The following were properly labeled: T2 Waste Water Tank T3 Settling Tank T4 Filter Press The following documents were reviewed: Industrial Wastewater Discharge Class I Permit, tank inspection schedule and log, wastewater discharge

A AND G ELECTROPOLISH (Continued) **1000905600**

log, waste analysis plan, annual notification (made via CERS), annual notification acknowledgment letter from this Agency, and the Closure Plan. Hazardous waste disposal documents, employee training records and the Business Emergency Plan were also available for review. A complete, valid [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Onsite to conduct a routine Tiered Permit, Permit by Rule (PBR) inspection. Consent to inspect and take photos was granted by the Mike Lakin. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date, and no photos were taken. The following were properly labeled: T2 Waste Water Tank T3 Settling Tank T4 Filter Press The following documents were reviewed: Industrial Wastewater Discharge Class I Permit, tank inspection schedule and log, wastewater discharge log, waste analysis plan, annual notification (made via CERS), annual notification acknowledgment letter from this Agency, and the Closure Plan. Professional Engineer Site Assessment from the previous year was reviewed as well. Hazardous waste manifests and tank logs were reviewed during the continuation inspection conducted 4/27/18. The weight of hazardous waste generated per month indicate that this facility falls [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-02-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: ADMINISTRATIVE ENFORCEMENT ORDER Administrative Enforcement Order Issued this date. Consent Order signed for the following corrective actions: 11.1 By Thursday, June 30, 2016, Respondent must remove any accumulated hazardous waste liquid from the process area containment floor. Respondent must develop a system to maintain the process floors free of any accumulation of hazardous waste liquid. 11.2 Respondent must properly label all hazardous waste containers, including the filter cake container, with all required elements to include ?Hazardous Waste?, name and address of generator, physical and chemical characteristics of the Hazardous Waste, and the starting accumulation date. At the time of the meeting, Respondent has complied with this requirement. SEP Supplemental Environmental Project (SEP) for modification of the current secondary containment system to prevent accumulation of hazardous waste inside the process area floor and containment. The SEP shall [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-06-2017

A AND G ELECTROPOLISH (Continued) **1000905600**

Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and accepted annual financial assurance form submitted to CERS on 6/5/17. Violation I278 regarding failure to prepare a written estimate of the cost of closing treatment unit cited in the inspection report dated 4/10/17, has been corrected.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Enforcement Action:
Site ID: 383989
Site Name: A & G ELECTROPOLISH
Site Address: 18330 WARD ST
Site City: FOUNTAIN VALLEY
Site Zip: 92708
Enf Action Date: 06-02-2015
Enf Action Type: AEO - Unified Program
Enf Action Description: Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes: Fines/Penalties Assessed: $20,000.00. SEPs Value: $15,000.00. A&G ELECTROPOLISH CEO GARY LAKIN 18330 WARD STREET FOUNTAIN VALLEY, CA 92708 FA0052258 HW PR0062372 PBR PR0062375.
Enf Action Division: Orange County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 383989
Facility Name: A & G ELECTROPOLISH
Env Int Type Code: HMBP
Program ID: 10538935
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.697160
Longitude: -117.945530

Affiliation:
Affiliation Type Desc: Onsite Treatment Unit Owner Operator
Entity Name: Haley Lakin
Entity Title: Office Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Michael Lakin
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (714) 968-6438

A AND G ELECTROPOLISH (Continued) **1000905600**

Affiliation Type Desc:	Document Preparer
Entity Name:	Haley Lakin
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Gary Lakin
Entity Title:	Not reported
Affiliation Address:	18330 WARD ST
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	18330 WARD STREET
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Haley Lakin
Entity Title:	Office Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Gary Lakin
Entity Title:	Not reported
Affiliation Address:	18330 Ward Street
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6438

Affiliation Type Desc:	Parent Corporation
Entity Name:	A & G ELECTROPOLISH
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

A AND G ELECTROPOLISH (Continued) **1000905600**

Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6000

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52 **CIBA-GEIGY CORP** **HWP** **S109467273**
ENE **18435 BANDILIER CIRCLE** **CERS** **N/A**
1/2-1 **FOUNTAIN VALLEY, CA 92708**
0.868 mi.
4581 ft.

Relative:
Higher

Actual:
26 ft.

HWP:
EPA Id: CAD094718590
Cleanup Status: PROTECTIVE FILER
Latitude: 33.69505
Longitude: -117.9407
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: Not reported
Assembly District: 72
Senate District: 34
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:
EPA Id: CAD094718590
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: Protective Filer Status - PROTECTIVE FILER (APPROVED)
Actual Date: 11/01/1990

EPA Id: CAD094718590
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: Protective Filer Status - PROTECTIVE FILER (RECEIVED)
Actual Date: 09/20/1990

CERS TANKS:
Site ID: 253062
CERS ID: CAD094718590
Site Name: CIBA-GEIGY CORP
CERS Description: Hazardous Waste

Affiliation:
Affiliation Type Desc: Facility Contact
Entity Name: UNDELIVERABLE SURVEY 2-20-95LH

CIBA-GEIGY CORP (Continued) **S109467273**

Entity Title:	Not reported
Affiliation Address:	18435 BANDILIRE CIRCLE
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	927080000
Affiliation Phone:	7149642731
Affiliation Type Desc:	Facility Owner
Entity Name:	CLOSED COMPOSITE MATERIALS DEP
Entity Title:	Not reported
Affiliation Address:	LTR 10/15/87
Affiliation City:	--
Affiliation State:	99
Affiliation Country:	Not reported
Affiliation Zip:	--
Affiliation Phone:	0000000000

53
WSW
1/2-1
0.920 mi.
4856 ft.

MAX'S CLEANERS (MAGNOLIA CENTER) **ENVIROSTOR** **S106797633**
19171 MAGNOLIA STREET, SUITE 5 **N/A**
HUNTINGTON BEACH, CA 92646

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:

Facility ID:	30720016
Status:	Refer: 1248 Local Agency
Status Date:	07/26/2001
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0
NPL:	NO
Regulatory Agencies:	ORANGE COUNTY
Lead Agency:	ORANGE COUNTY
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Cypress
Assembly:	74
Senate:	37
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not Applicable
Latitude:	33.68394
Longitude:	-117.9725
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	30720016
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

MAX'S CLEANERS (MAGNOLIA CENTER) (Continued) **S106797633**

Completed Document Type:	SB 1248 Notification
Completed Date:	06/05/2001
Comments:	SB 1248 Orange County
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Count: 5 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
HUNTINGTON BEACH	S121698630	PRIME CLEANERS,HOOSHANG MOVAFAGHI;	18225 BROOKHURST AVE		DRYCLEANERS
HUNTINGTON BEACH	S121695586	KARE MORE CLEANERS	21501-A BROOKHURST	92646	DRYCLEANERS
HUNTINGTON BEACH	S121695698	KAREMORE CLEANERS	21501-A BROOKHURST ST	92646	DRYCLEANERS
HUNTINGTON BEACH	S121696111	KAREMORE CLEANERS	21501-A BROOKHURST ST	92646	DRYCLEANERS
HUNTINGTON BEACH	S121694427	KAREMORE CLEANERS, VICTOR LUONG, D	21501 BROOKHURST A & B	92646	DRYCLEANERS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/22/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 41

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 21

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/03/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 34
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 04/15/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/04/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/11/2018
Number of Days to Update: 29

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 32

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 27

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 49

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 10/24/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 40

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 03/07/2019
Date Data Arrived at EDR: 04/03/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 50

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/07/2019
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/22/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/24/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2019
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 34
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/07/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/07/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/02/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 51

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 30

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/27/2018
Date Data Arrived at EDR: 02/27/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 33

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/27/2019
Date Data Arrived at EDR: 03/28/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 34

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/15/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 10

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 06/05/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/07/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/21/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 39
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 04/18/2019
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 11
Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 01/23/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 34
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 03/19/2019
Date Data Arrived at EDR: 03/22/2019
Date Made Active in Reports: 04/09/2019
Number of Days to Update: 18

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/23/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 03/01/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 35

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Annually

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/22/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 11/02/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 41

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/10/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 41

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/15/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 14

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 50

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 51

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 23
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/05/2019
Number of Days to Update: 31
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/18/2019
Date Data Arrived at EDR: 03/19/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 41
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 59

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 58

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 27

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/14/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 17

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 29

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/10/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/20/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 41

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 29

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/16/2019
Date Data Arrived at EDR: 05/17/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 13

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/12/2019
Number of Days to Update: 28

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/17/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 12/19/2018
Date Data Arrived at EDR: 01/10/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 56

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/14/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/16/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/17/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/16/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Semi-Annually

UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Annually

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 28

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 13

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/19/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 50

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 34

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/23/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 02/05/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 04/01/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 9

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 31
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/07/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/12/2019
Number of Days to Update: 42
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 01/14/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46
Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/12/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 18
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/29/2019
Date Data Arrived at EDR: 01/31/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 36
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 01/04/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 60

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 67

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 33

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing
A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 03/06/2019
Date Data Arrived at EDR: 03/06/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 54
Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

SAN DIEGO CO. SAM: Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/15/2019
Date Made Active in Reports: 03/14/2019
Number of Days to Update: 27

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 15

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34
Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90
Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51
Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 53
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 27
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 03/18/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 33

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 42

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 35

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Annually

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 35
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/26/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 21
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/03/2019
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 13
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 22
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/04/2019
Number of Days to Update: 20
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/10/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/30/2019
Date Made Active in Reports: 02/14/2019
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/01/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/17/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

BROOKFIELD LA- FOUNTAIN VALLEY
9790 FINCH AVENUE
FOUNTAIN VALLEY, CA 92708

TARGET PROPERTY COORDINATES

Latitude (North):	33.691358 - 33° 41' 28.89''
Longitude (West):	117.9569 - 117° 57' 24.84''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	411310.5
UTM Y (Meters):	3728152.5
Elevation:	13 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640950 NEWPORT BEACH, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

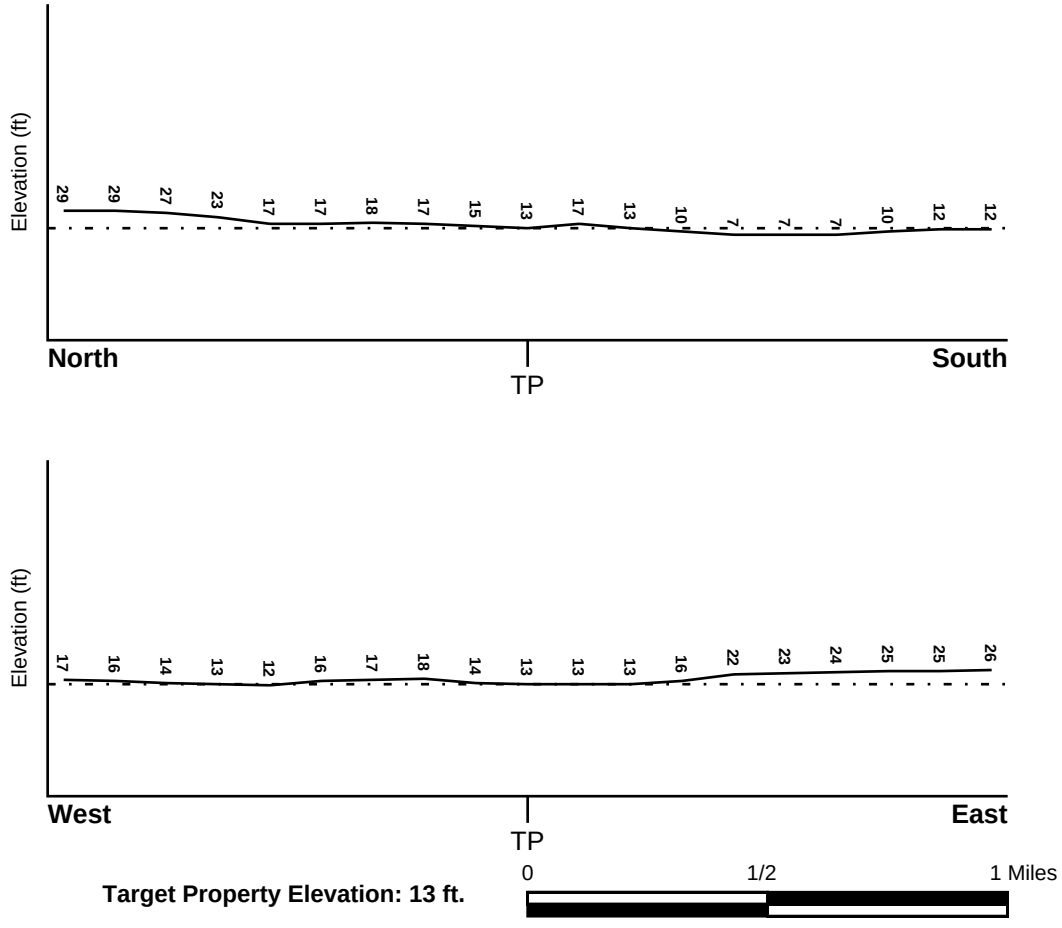
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 13 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06059C0254J	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06059C0253J	FEMA FIRM Flood data
06059C0261J	FEMA FIRM Flood data
06059C0262J	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
COSTA MESA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
A2	1/8 - 1/4 Mile NE	ENE
A3	1/4 - 1/2 Mile NE	Not Reported
B4	1/4 - 1/2 Mile SSE	Not Reported
B8	1/4 - 1/2 Mile SSE	SSW
B9	1/4 - 1/2 Mile SSE	SSW
H38	1/2 - 1 Mile NNE	SW

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
45	1/2 - 1 Mile ESE	NW,NWW,SW,SS
J46	1/2 - 1 Mile North	SW
M62	1/2 - 1 Mile WSW	S
M63	1/2 - 1 Mile WSW	S
O66	1/2 - 1 Mile WSW	SW
O69	1/2 - 1 Mile WSW	Not Reported
O70	1/2 - 1 Mile WSW	Varies
1G	1/2 - 1 Mile North	SW
2G	1/2 - 1 Mile NNE	SW
3G	1/4 - 1/2 Mile NE	Not Reported
4G	1/8 - 1/4 Mile NE	ENE
5G	1/4 - 1/2 Mile SSE	Not Reported
6G	1/2 - 1 Mile WSW	SW
7G	1/4 - 1/2 Mile SSE	SSW
8G	1/4 - 1/2 Mile SSE	SSW
9G	1/2 - 1 Mile WSW	S
10G	1/2 - 1 Mile WSW	S
11G	1/2 - 1 Mile WSW	Not Reported
12G	1/2 - 1 Mile WSW	Varies
13G	1/2 - 1 Mile ESE	NW,NWW,SW,SS

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

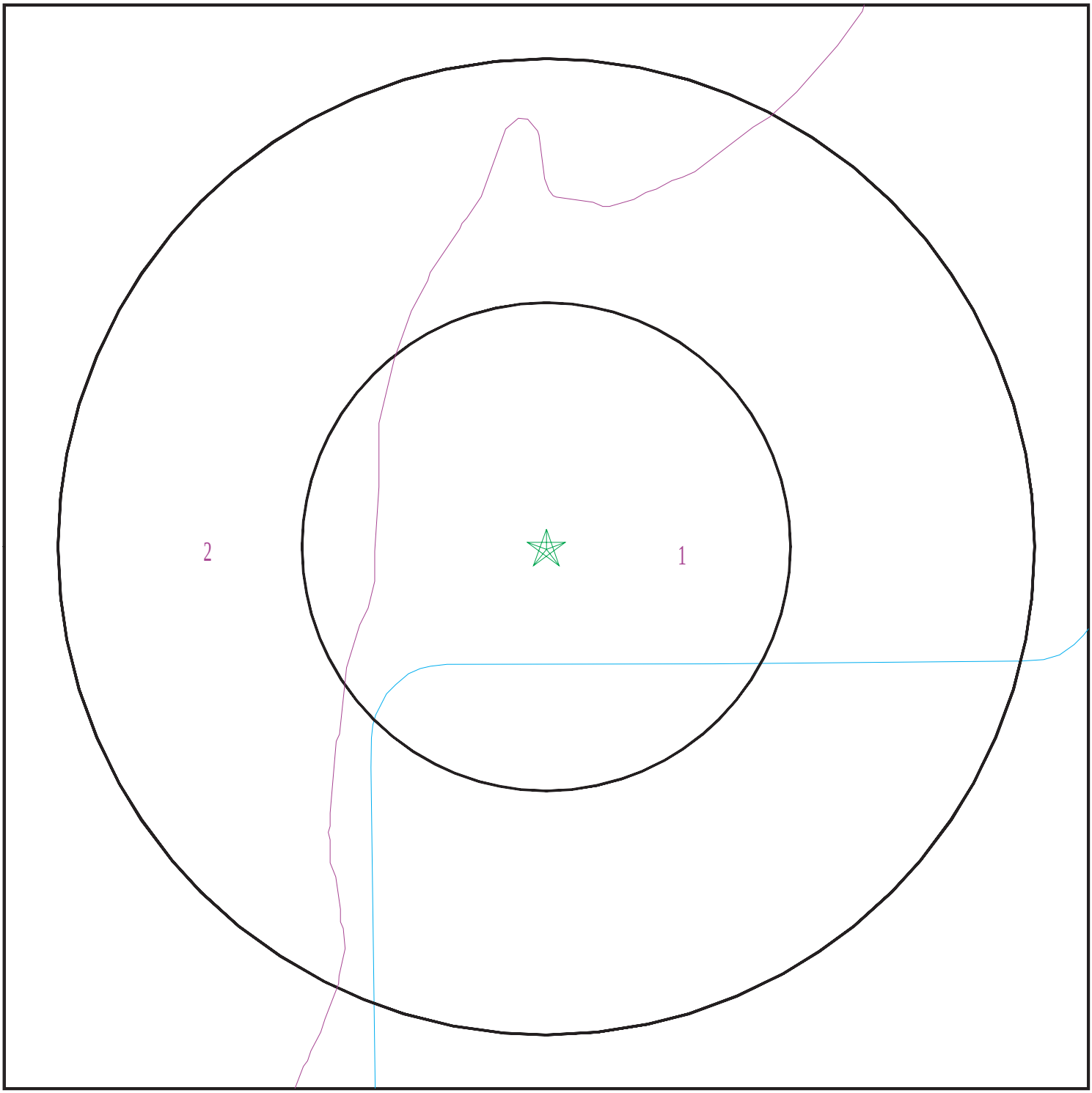
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5682876.2s



SITE NAME:	Brookfield LA- Fountain Valley	CLIENT:	Leighton and Associates, Inc.
ADDRESS:	9790 Finch Avenue Fountain Valley CA 92708	CONTACT:	Sabrina Gonzalez
LAT/LONG:	33.691358 / 117.9569	INQUIRY #:	5682876.2s
		DATE:	June 13, 2019 12:09 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: BOLSA

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	silt loam	Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9
2	11 inches	68 inches	silty clay loam	Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9

Soil Map ID: 2

Soil Component Name: HUENEME

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	27 inches	fine sandy loam	Not reported	Not reported	Max: 42 Min: 14	Max: 8.4 Min: 7.4
2	27 inches	59 inches	stratified sand to silt loam	Not reported	Not reported	Max: 42 Min: 14	Max: 8.4 Min: 7.4

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000136827	1/8 - 1/4 Mile NNW
5	USGS40000136777	1/4 - 1/2 Mile WSW
6	USGS40000136821	1/4 - 1/2 Mile WNW
B7	USGS40000136752	1/4 - 1/2 Mile SSE
B10	USGS40000136764	1/4 - 1/2 Mile SE
C11	USGS40000136798	1/4 - 1/2 Mile West
C12	USGS40000136799	1/4 - 1/2 Mile West
C13	USGS40000136800	1/4 - 1/2 Mile West
14	USGS40000136868	1/4 - 1/2 Mile NNE
15	USGS40000136735	1/4 - 1/2 Mile SSE
16	USGS40000136892	1/4 - 1/2 Mile North
D17	USGS40000136741	1/4 - 1/2 Mile SW
18	USGS40000136770	1/4 - 1/2 Mile ESE
D19	USGS40000136739	1/4 - 1/2 Mile SW
20	USGS40000136847	1/4 - 1/2 Mile ENE
21	USGS40000136894	1/2 - 1 Mile NNE
E22	USGS40000136919	1/2 - 1 Mile NNE
23	USGS40000136889	1/2 - 1 Mile NW
24	USGS40000136908	1/2 - 1 Mile NNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
E26	USGS40000136939	1/2 - 1 Mile NNE
G27	USGS40000136833	1/2 - 1 Mile ENE
F28	USGS40000136751	1/2 - 1 Mile ESE
29	USGS40000136720	1/2 - 1 Mile SW
F30	USGS40000136755	1/2 - 1 Mile ESE
G31	USGS40000136826	1/2 - 1 Mile ENE
H32	USGS40000136969	1/2 - 1 Mile NNE
H33	USGS40000136998	1/2 - 1 Mile North
H34	USGS40000136999	1/2 - 1 Mile North
35	USGS40000136808	1/2 - 1 Mile West
H36	USGS40000136997	1/2 - 1 Mile NNE
37	USGS40000136957	1/2 - 1 Mile NNW
40	USGS40000136915	1/2 - 1 Mile NE
41	USGS40000137035	1/2 - 1 Mile North
J43	USGS40000137034	1/2 - 1 Mile North
I47	USGS40000136750	1/2 - 1 Mile ESE
K48	USGS40000136769	1/2 - 1 Mile ESE
L49	USGS40000136672	1/2 - 1 Mile South
M51	USGS40000136742	1/2 - 1 Mile WSW
53	USGS40000137047	1/2 - 1 Mile NNE
N57	USGS40000137031	1/2 - 1 Mile NNW
L58	USGS40000136665	1/2 - 1 Mile South
59	USGS40000136825	1/2 - 1 Mile East
60	USGS40000136666	1/2 - 1 Mile SSW
61	USGS40000137048	1/2 - 1 Mile NNW
64	USGS40000137061	1/2 - 1 Mile NNW
65	USGS40000137014	1/2 - 1 Mile NE
N67	USGS40000137040	1/2 - 1 Mile NNW
68	USGS40000136952	1/2 - 1 Mile NE
71	USGS40000136658	1/2 - 1 Mile SSW
P72	USGS40000136652	1/2 - 1 Mile South
P73	USGS40000136651	1/2 - 1 Mile South
Q74	USGS40000136667	1/2 - 1 Mile SSW
S76	USGS40000136916	1/2 - 1 Mile NW
Q77	USGS40000136659	1/2 - 1 Mile SSW
78	USGS40000137013	1/2 - 1 Mile NE
R79	USGS40000136731	1/2 - 1 Mile ESE
80	USGS40000137091	1/2 - 1 Mile NNW
84	USGS40000137101	1/2 - 1 Mile NNE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

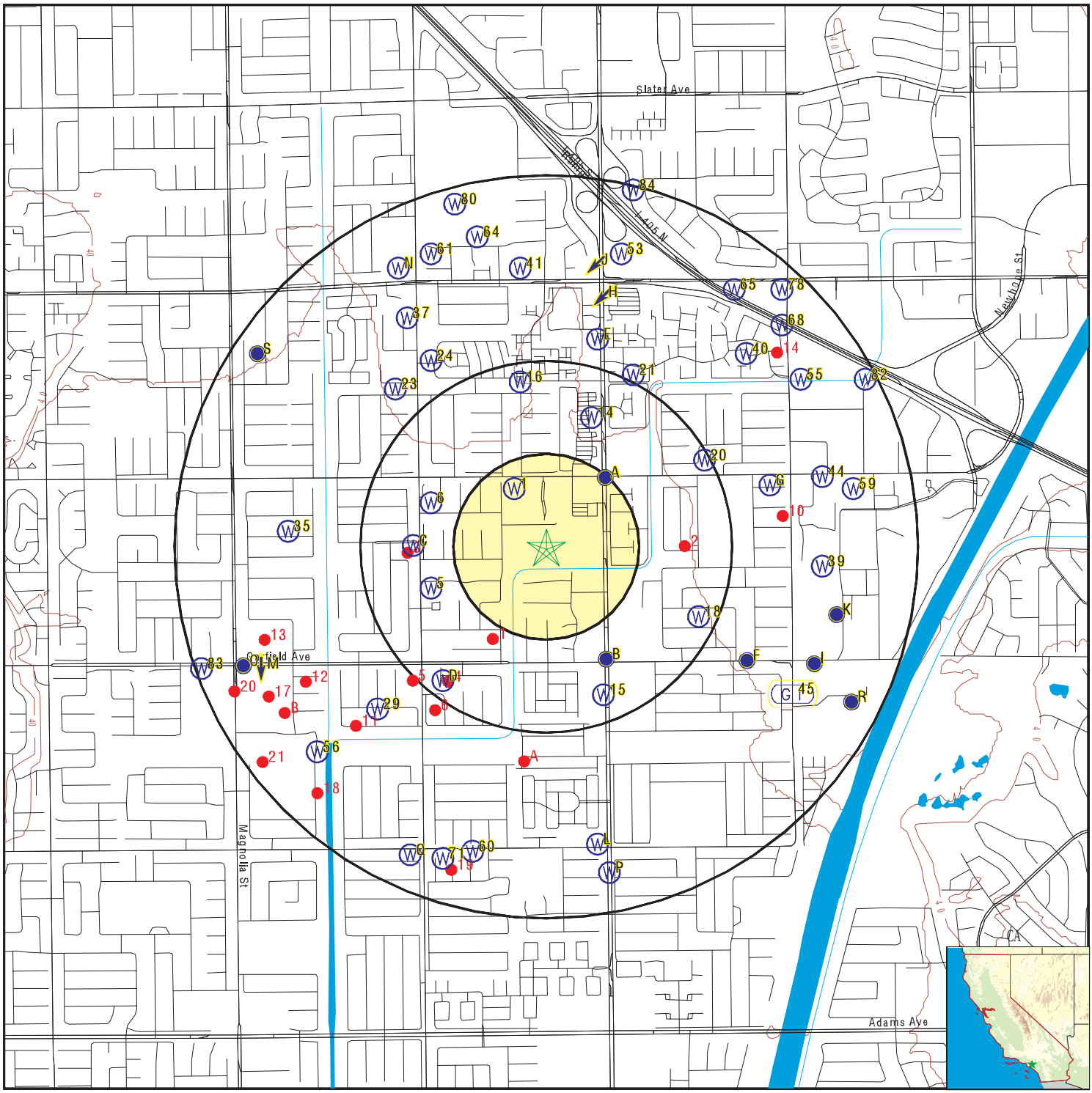
MAP ID	WELL ID	LOCATION FROM TP
F25	CADWR8000004904	1/2 - 1 Mile ESE
39	CADWR8000004916	1/2 - 1 Mile East
I42	CADWR8000004900	1/2 - 1 Mile ESE
44	CADWR8000004931	1/2 - 1 Mile ENE
I50	CADWR8000004903	1/2 - 1 Mile ESE
I52	CADWR8000004899	1/2 - 1 Mile ESE
K54	CADWR8000004911	1/2 - 1 Mile ESE
55	CADWR8000004956	1/2 - 1 Mile ENE
56	7091	1/2 - 1 Mile SW
R75	CADWR8000004888	1/2 - 1 Mile ESE
S81	CADWR8000004961	1/2 - 1 Mile WNW
82	CADWR8000004955	1/2 - 1 Mile ENE
83	CADWR8000004894	1/2 - 1 Mile WSW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CAOG13000006288	1/4 - 1/2 Mile SSW
2	CAOG13000006232	1/4 - 1/2 Mile East
3	CAOG13000005954	1/4 - 1/2 Mile West
4	CAOG13000216236	1/4 - 1/2 Mile SW
5	CAOG13000216702	1/2 - 1 Mile SW
6	CAOG13000216694	1/2 - 1 Mile SW
A7	CAOG13000216692	1/2 - 1 Mile South
A8	CAOG13000216695	1/2 - 1 Mile SSW
A9	CAOG13000216696	1/2 - 1 Mile South
10	CAOG13000006028	1/2 - 1 Mile East
11	CAOG13000216697	1/2 - 1 Mile SW
12	CAOG13000216700	1/2 - 1 Mile WSW
13	CAOG13000006269	1/2 - 1 Mile WSW
14	CAOG13000006088	1/2 - 1 Mile NE
B15	CAOG13000216699	1/2 - 1 Mile WSW
B16	CAOG13000216703	1/2 - 1 Mile WSW
17	CAOG13000216701	1/2 - 1 Mile WSW
18	CAOG13000216693	1/2 - 1 Mile SW
19	CAOG13000006093	1/2 - 1 Mile SSW
20	CAOG13000006261	1/2 - 1 Mile WSW
21	CAOG13000216698	1/2 - 1 Mile SW

PHYSICAL SETTING SOURCE MAP - 5682876.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Brookfield LA- Fountain Valley	CLIENT:	Leighton and Associates, Inc.
ADDRESS:	9790 Finch Avenue Fountain Valley CA 92708	CONTACT:	Sabrina Gonzalez
LAT/LONG:	33.691358 / 117.9569	INQUIRY #:	5682876.2s
		DATE:	June 13, 2019 12:09 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number

1
NNW
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000136827**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31J001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

A2
NE
1/8 - 1/4 Mile
Higher

Site ID:	083000824T
Groundwater Flow:	ENE
Shallow Water Depth:	8.94
Deep Water Depth:	14.02
Average Water Depth:	Not Reported
Date:	04/1999

AQUIFLOW **51921**

A3
NE
1/4 - 1/2 Mile
Higher

Site ID:	083001219T
Groundwater Flow:	Not Reported
Shallow Water Depth:	6.14
Deep Water Depth:	9.49
Average Water Depth:	Not Reported
Date:	11/14/1997

AQUIFLOW **34289**

B4
SSE
1/4 - 1/2 Mile
Higher

Site ID:	083000339T
Groundwater Flow:	Not Reported
Shallow Water Depth:	8.67
Deep Water Depth:	9.13
Average Water Depth:	Not Reported
Date:	09/23/1986

AQUIFLOW **65371**

5
WSW
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000136777**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31Q002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
6 **WNW** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000136821**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31K001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

	Database	EDR ID Number
B7 **SSE** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000136752**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31R007S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

			Database	EDR ID Number
B8 **SSE** **1/4 - 1/2 Mile** **Higher**	Site ID:	083000983T	**AQUIFLOW**	**39005**
	Groundwater Flow:	SSW		
	Shallow Water Depth:	10.45		
	Deep Water Depth:	12.87		
	Average Water Depth:	Not Reported		
	Date:	05/27/1998		

			Database	EDR ID Number
B9 **SSE** **1/4 - 1/2 Mile** **Higher**	Site ID:	083000983T	**AQUIFLOW**	**39006**
	Groundwater Flow:	SSW		
	Shallow Water Depth:	10.45		
	Deep Water Depth:	12.87		
	Average Water Depth:	Not Reported		
	Date:	05/27/1998		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

B10
SE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000136764**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32N003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

C11
West
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000136798**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31L001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

C12
West
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000136799**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31L002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C13
West
1/4 - 1/2 Mile
Higher | **FED USGS** | **USGS40000136800**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31L003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

14
NNE
1/4 - 1/2 Mile
Higher | **FED USGS** | **USGS40000136868**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31H003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

15
SSE
1/4 - 1/2 Mile
Higher | **FED USGS** | **USGS40000136735**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06A001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

16
North
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000136892**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31H004S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

D17
SW
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000136741**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06B002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

18
ESE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000136770**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32P003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D19
SW
1/4 - 1/2 Mile
Higher | **FED USGS** | **USGS40000136739**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06B003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

20
ENE
1/4 - 1/2 Mile
Higher | **FED USGS** | **USGS40000136847**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32F004S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

21
NNE
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000136894**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32D005S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E22
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136919**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31A002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

23
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000136889**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31F003S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

24
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000136908**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31B003S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F25
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004904**

State Well #:	05S10W32P002S	Station ID:	5161
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

E26
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136939**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31A012S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

G27
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136833**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32L003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

F28
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136751**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W05C001S	Type:	Well
Description:	Not Reported	HUC:	18070203

Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

29
SW
1/2 - 1 Mile
Higher

FED USGS **USGS40000136720**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06C001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

F30
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136755**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32P002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

G31
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136826**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32L001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported

Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

H32
NNE **FED USGS** **USGS40000136969**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31A001S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

H33
North **FED USGS** **USGS40000136998**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31A006S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

H34
North **FED USGS** **USGS40000136999**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31A011S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

35
West
1/2 - 1 Mile
Higher

FED USGS **USGS40000136808**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31M002S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

H36
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136997**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32D002S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

37
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000136957**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31C001S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database | EDR ID Number

H38
NNE
1/2 - 1 Mile
Higher

AQUIFLOW **67253**

Site ID:	083001125T
Groundwater Flow:	SW
Shallow Water Depth:	9.7
Deep Water Depth:	16.8
Average Water Depth:	Not Reported
Date:	05/11/1995

39
East
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004916**

State Well #:	05S10W32Q002S	Station ID:	5162
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

40
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136915**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32C004S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

41
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000137035**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W30R003S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I42
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004900**

State Well #:	06S10W05B004S	Station ID:	25341
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

J43
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000137034**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W30R005S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

44
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004931**

State Well #:	05S10W32K003S	Station ID:	5160
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

45
ESE
1/2 - 1 Mile
Higher

AQUIFLOW **65301**

Site ID:	083000137T
Groundwater Flow:	NW,NWW,SW,SS
Shallow Water Depth:	6.32
Deep Water Depth:	13.06
Average Water Depth:	Not Reported
Date:	06/06/1995

J46
North
1/2 - 1 Mile
Higher

AQUIFLOW **66512**

Site ID:	083000395T
Groundwater Flow:	SW
Shallow Water Depth:	8.34
Deep Water Depth:	9.8
Average Water Depth:	Not Reported
Date:	06/30/1998

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I47
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136750**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W05B004S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

K48
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136769**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32Q001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

L49
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000136672**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06H002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I50
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004903**

State Well #:	06S10W05B001S	Station ID:	7313
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

M51
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000136742**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06D003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

I52
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004899**

State Well #:	06S10W05B005S	Station ID:	7314
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

53
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000137047**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W29N001S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported

Well Hole Depth Units: Not Reported

K54
ESE **CA WELLS** **CADWR8000004911**
1/2 - 1 Mile
Higher

State Well #:	05S10W32Q001S	Station ID:	28717
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

55
ENE **CA WELLS** **CADWR8000004956**
1/2 - 1 Mile
Higher

State Well #:	05S10W32B006S	Station ID:	5158
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

56
SW **CA WELLS** **7091**
1/2 - 1 Mile
Lower

Seq:	7091	Prim sta c:	06S/11W-01A01 S
Frds no:	3010053002	County:	30
District:	08	User id:	TEE
System no:	3010053	Water type:	G
Source nam:	HOLTZ - DESTROYED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	334100.0	Longitude:	1175800.0
Precision:	8	Status:	DS
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3010053	System nam:	City of Huntington Beach
Hqname:	Not Reported	Address:	PO BOX 190
City:	HUNTINGTON BEACH	State:	CA
Zip:	92648	Zip ext:	Not Reported
Pop serv:	192000	Connection:	49209
Area serve:	HUNTINGTON BEACH		

N57
NNW **FED USGS** **USGS40000137031**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA
Organization Name:	USGS California Water Science Center

Monitor Location:	005S010W30P003S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

L58
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000136665**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06H001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

59
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000136825**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32K001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

60
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000136666**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06K001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		

Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

61
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000137048**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W30Q003S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

M62
WSW
1/2 - 1 Mile
Lower

AQUIFLOW **68273**

Site ID:	083001249T
Groundwater Flow:	S
Shallow Water Depth:	9.96
Deep Water Depth:	10.41
Average Water Depth:	Not Reported
Date:	03/31/1999

M63
WSW
1/2 - 1 Mile
Lower

AQUIFLOW **68274**

Site ID:	083001249T
Groundwater Flow:	S
Shallow Water Depth:	9.96
Deep Water Depth:	10.41
Average Water Depth:	Not Reported
Date:	03/31/1999

64
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000137061**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W30Q006S	Type:	Well
Description:	NAWQA DATA ENTRY COM + VER 9-25-2000 SNHAMLIN		
HUC:	18070203	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	California Coastal Basin aquifers
Formation Type:	Quaternary Alluvium	Aquifer Type:	Unconfined single aquifer
Construction Date:	19991130	Well Depth:	28.5
Well Depth Units:	ft	Well Hole Depth:	28.5
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	2000-07-18
Feet below surface:	12.12	Feet to sea level:	Not Reported

Note: Not Reported

65
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000137014**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32C011S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

O66
WSW
1/2 - 1 Mile
Higher

AQUIFLOW **51923**

Site ID:	083000638T
Groundwater Flow:	SW
Shallow Water Depth:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	25 ft
Date:	02/20/1987

N67
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000137040**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W30P005S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

68
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136952**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32C010S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported

Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

O69
WSW
1/2 - 1 Mile
Lower

AQUIFLOW **65108**

Site ID:	083000350T
Groundwater Flow:	Not Reported
Shallow Water Depth:	8.69
Deep Water Depth:	11.9
Average Water Depth:	Not Reported
Date:	03/1997

O70
WSW
1/2 - 1 Mile
Lower

AQUIFLOW **33974**

Site ID:	083000283T
Groundwater Flow:	Varies
Shallow Water Depth:	8.46
Deep Water Depth:	11.52
Average Water Depth:	Not Reported
Date:	1995

71
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000136658**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06K002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

P72
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000136652**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06J002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

P73
South
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000136651**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06J001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Q74
SSW
1/2 - 1 Mile
Lower | **FED USGS** | **USGS40000136667**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06L002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

R75
ESE
1/2 - 1 Mile
Higher | **CA WELLS** | **CADWR8000004888**

State Well #:	06S10W05B003S	Station ID:	28522
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

S76
NW
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000136916**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31D004S	Type:	Well
Description:	Not Reported	HUC:	18070201

Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19400801	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	115
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	60	Level reading date:	1986-08-19
Feet below surface:	23.38	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1986-05-01	Feet below surface:	18.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-03-03	Feet below surface:	20.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-11-04	Feet below surface:	23.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-08-16	Feet below surface:	23.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-14	Feet below surface:	15.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-02-15	Feet below surface:	15.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-10-31	Feet below surface:	21.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-08-22	Feet below surface:	20.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-05-15	Feet below surface:	17.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-02-08	Feet below surface:	12.66
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-07	Feet below surface:	15.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-08-10	Feet below surface:	19.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-12	Feet below surface:	14.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-10	Feet below surface:	15.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-03	Feet below surface:	18.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-06	Feet below surface:	18.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-05-06	Feet below surface:	13.74

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-26	Feet below surface:	17.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-06	Feet below surface:	18.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-04	Feet below surface:	17.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-12	Feet below surface:	15.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-04	Feet below surface:	13.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-30	Feet below surface:	18.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-26	Feet below surface:	18.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-16	Feet below surface:	17.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-07	Feet below surface:	18.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-08	Feet below surface:	17.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-02	Feet below surface:	22.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-30	Feet below surface:	17.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-01	Feet below surface:	16.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-11-06	Feet below surface:	17.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-18	Feet below surface:	21.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-02	Feet below surface:	20.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-12	Feet below surface:	29.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-27	Feet below surface:	33.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-03	Feet below surface:	39.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-11	Feet below surface:	41.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-11-01	Feet below surface:	39.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-14	Feet below surface:	37.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-06	Feet below surface:	29.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-26	Feet below surface:	32.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-02	Feet below surface:	33.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-05	Feet below surface:	34.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-26	Feet below surface:	35.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-07	Feet below surface:	29.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-02	Feet below surface:	27.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-12	Feet below surface:	28.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-07	Feet below surface:	27.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-10-29	Feet below surface:	29.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-05	Feet below surface:	31.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-05	Feet below surface:	31.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-03	Feet below surface:	26.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-20	Feet below surface:	25.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-30	Feet below surface:	24.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-07	Feet below surface:	28.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-12	Feet below surface:	27.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-11	Feet below surface:	26.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-13	Feet below surface:	19.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1973-01-10	Feet below surface:	24.2
Feet to sea level:	Not Reported	Note:	Not Reported

Q77
SSW **FED USGS** **USGS40000136659**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06L003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

78
NE **FED USGS** **USGS40000137013**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32C001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

R79
ESE **FED USGS** **USGS40000136731**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W05B003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19560217	Well Depth:	180
Well Depth Units:	ft	Well Hole Depth:	218
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	53	Level reading date:	1986-08-13
Feet below surface:	29.45	Feet to sea level:	Not Reported

Note:	Not Reported		
Level reading date:	1986-05-01	Feet below surface:	23.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-03-03	Feet below surface:	27.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-11-04	Feet below surface:	29.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-08-16	Feet below surface:	30.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-14	Feet below surface:	21.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-02-14	Feet below surface:	19.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-10-31	Feet below surface:	27.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-08-14	Feet below surface:	27.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-05-10	Feet below surface:	23.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-02-08	Feet below surface:	17.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-07	Feet below surface:	21.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-08-10	Feet below surface:	27.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-12	Feet below surface:	18.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-10	Feet below surface:	18.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-02	Feet below surface:	24.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-06	Feet below surface:	26.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-04	Feet below surface:	22.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-12	Feet below surface:	18.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-04	Feet below surface:	17.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-31	Feet below surface:	22.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-08-27	Feet below surface:	23.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-16	Feet below surface:	20.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-06	Feet below surface:	21.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-08	Feet below surface:	19.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-30	Feet below surface:	20.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-02	Feet below surface:	20.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-11-02	Feet below surface:	21.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-16	Feet below surface:	25.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-26	Feet below surface:	34.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-07	Feet below surface:	29.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-12	Feet below surface:	29.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-11	Feet below surface:	32.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-04	Feet below surface:	30.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-27	Feet below surface:	29.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-14	Feet below surface:	28.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-09	Feet below surface:	34.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-10-23	Feet below surface:	36.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-06	Feet below surface:	35.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-09	Feet below surface:	36.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-06	Feet below surface:	23.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-21	Feet below surface:	20.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1974-01-31	Feet below surface:	28.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-13	Feet below surface:	35.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-11	Feet below surface:	29.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-13	Feet below surface:	23.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-01-11	Feet below surface:	27.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-11-06	Feet below surface:	28.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-09-08	Feet below surface:	30.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-07-12	Feet below surface:	28.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-05-05	Feet below surface:	24.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-03-03	Feet below surface:	21.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-01-13	Feet below surface:	16.60
Feet to sea level:	Not Reported	Note:	Not Reported

80
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000137091**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W30Q001S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

S81
WNW
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004961**

State Well #:	05S10W31D004S	Station ID:	5157
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		

Well Completion Rpt #: Not Reported

82
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004955**

State Well #:	05S10W32G000S	Station ID:	25317
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

83
WSW
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004894**

State Well #:	06S11W01A003S	Station ID:	25342
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

84
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000137101**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W29M009S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

1G
North
1/2 - 1 Mile
Lower

AQUIFLOW **66512**

Site ID:	083000395T
Groundwater Flow:	SW
Shallow Water Depth:	8.34
Deep Water Depth:	9.8
Average Water Depth:	Not Reported
Date:	06/30/1998

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
2G **NNE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083001125T SW 9.7 16.8 Not Reported 05/11/1995	**AQUIFLOW**	**67253**
3G **NE** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083001219T Not Reported 6.14 9.49 Not Reported 11/14/1997	**AQUIFLOW**	**34289**
4G **NE** **1/8 - 1/4 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000824T ENE 8.94 14.02 Not Reported 04/1999	**AQUIFLOW**	**51921**
5G **SSE** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000339T Not Reported 8.67 9.13 Not Reported 09/23/1986	**AQUIFLOW**	**65371**
6G **WSW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000638T SW Not Reported Not Reported 25 ft 02/20/1987	**AQUIFLOW**	**51923**
7G **SSE** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000983T SSW 10.45 12.87 Not Reported 05/27/1998	**AQUIFLOW**	**39005**
8G **SSE** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000983T SSW 10.45 12.87 Not Reported 05/27/1998	**AQUIFLOW**	**39006**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
9G **WSW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083001249T S 9.96 10.41 Not Reported 03/31/1999	**AQUIFLOW**	**68273**
10G **WSW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083001249T S 9.96 10.41 Not Reported 03/31/1999	**AQUIFLOW**	**68274**
11G **WSW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000350T Not Reported 8.69 11.9 Not Reported 03/1997	**AQUIFLOW**	**65108**
12G **WSW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000283T Varies 8.46 11.52 Not Reported 1995	**AQUIFLOW**	**33974**
13G **ESE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000137T NW,NWW,SW,SS 6.32 13.06 Not Reported 06/06/1995	**AQUIFLOW**	**65301**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
SSW **OIL_GAS** **CAOG13000006288**
1/4 - 1/2 Mile

API #:	0405901284	Well #:	31-68
Well Status:	Plugged	Well Type:	DH
Operator Name:	Westates Petroleum Co.	Lease Name:	Bradley
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

2
East **OIL_GAS** **CAOG13000006232**
1/4 - 1/2 Mile

API #:	0405901227	Well #:	26
Well Status:	Plugged	Well Type:	DH
Operator Name:	The Superior Oil Co.	Lease Name:	Gisler
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

3
West **OIL_GAS** **CAOG13000005954**
1/4 - 1/2 Mile

API #:	0405900859	Well #:	1
Well Status:	Plugged	Well Type:	DH
Operator Name:	Atlantic Oil Company	Lease Name:	Pope
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

4
SW **OIL_GAS** **CAOG13000216236**
1/4 - 1/2 Mile

API #:	0405907473	Well #:	51-6
Well Status:	Plugged	Well Type:	OG
Operator Name:	Coast Supply Company Ltd.	Lease Name:	Lamb
Field Name:	Sunset Beach (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

5
SW
1/2 - 1 Mile

OIL_GAS **CAOG13000216702**

API #:	0405907484	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	E. A. Shamlin	Lease Name:	Harper
Field Name:	Talbert (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

6
SW
1/2 - 1 Mile

OIL_GAS **CAOG13000216694**

API #:	0405907476	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Lamb Oil Co.	Lease Name:	Lamb
Field Name:	Talbert (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

A7
South
1/2 - 1 Mile

OIL_GAS **CAOG13000216692**

API #:	0405907474	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Lamb Oil Co.	Lease Name:	Harper
Field Name:	Talbert (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

A8
SSW
1/2 - 1 Mile

OIL_GAS **CAOG13000216695**

API #:	0405907477	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Lamb Oil Co.	Lease Name:	Lamb
Field Name:	Talbert (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

A9
South
1/2 - 1 Mile

OIL_GAS **CAOG13000216696**

API #:	0405907478	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Lamb Oil Co.	Lease Name:	Walter
Field Name:	Talbert (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

10
East
1/2 - 1 Mile

OIL_GAS **CAOG13000006028**

API #:	0405900999	Well #:	1
Well Status:	Plugged	Well Type:	DH
Operator Name:	Sam B. Herndon, Operator	Lease Name:	Stephens Comm.
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

11
SW
1/2 - 1 Mile

OIL_GAS **CAOG13000216697**

API #:	0405907479	Well #:	32
Well Status:	Plugged	Well Type:	OG
Operator Name:	McCarthy Oil & Gas Corp.	Lease Name:	Lamb Community
Field Name:	Talbert (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

12
WSW
1/2 - 1 Mile

OIL_GAS **CAOG13000216700**

API #:	0405907482	Well #:	1-6
Well Status:	Plugged	Well Type:	OG
Operator Name:	Rancho Oil Co.	Lease Name:	Walter Lamb
Field Name:	Talbert (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

13
WSW
1/2 - 1 Mile

OIL_GAS **CAOG13000006269**

API #:	0405901264	Well #:	31-8
Well Status:	Plugged	Well Type:	DH
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Watson-Nau
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

14
NE
1/2 - 1 Mile

OIL_GAS **CAOG13000006088**

API #:	0405901073	Well #:	1
Well Status:	Plugged	Well Type:	DH
Operator Name:	Morton and Sons	Lease Name:	Crew Community
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

B15
WSW
1/2 - 1 Mile

OIL_GAS **CAOG13000216699**

API #:	0405907481	Well #:	2-6
Well Status:	Plugged	Well Type:	OG
Operator Name:	Pacific Supply Cooperative		
Lease Name:	Lamb	Field Name:	Talbert (ABD)
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

B16
WSW
1/2 - 1 Mile

OIL_GAS **CAOG13000216703**

API #:	0405907486	Well #:	3-6
Well Status:	Plugged	Well Type:	OG
Operator Name:	R. B. Watkins	Lease Name:	Lamb
Field Name:	Talbert (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

17
WSW
1/2 - 1 Mile

OIL_GAS **CAOG13000216701**

API #:	0405907483	Well #:	2-6
Well Status:	Plugged	Well Type:	OG
Operator Name:	Rancho Oil Co.	Lease Name:	Walter Lamb
Field Name:	Talbert (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

18
SW
1/2 - 1 Mile

OIL_GAS **CAOG13000216693**

API #:	0405907475	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	D. D. Dunlap and Dorothy Dunlap		
Lease Name:	Lamb	Field Name:	Talbert (ABD)
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

19
SSW
1/2 - 1 Mile

OIL_GAS **CAOG13000006093**

API #:	0405901078	Well #:	1
Well Status:	Plugged	Well Type:	DH
Operator Name:	Morton and Sons	Lease Name:	Lamb-Community
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

20
WSW
1/2 - 1 Mile

OIL_GAS **CAOG13000006261**

API #:	0405901256	Well #:	81
Well Status:	Plugged	Well Type:	DH
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Holtz 1
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

21
SW
1/2 - 1 Mile

OIL_GAS **CAOG13000216698**

API #:	0405907480	Well #:	1-6
Well Status:	Plugged	Well Type:	OG
Operator Name:	Pacific Supply Cooperative		
Lease Name:	Lamb	Field Name:	Talbert (ABD)
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92708	56	0

Federal EPA Radon Zone for ORANGE County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for ORANGE COUNTY, CA

Number of sites tested: 30

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.763 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX F

AGENCY FILES

Leighton

Jared Blumenfeld
Secretary for
Environmental Protection

Department of Toxic Substances Control

Meredith Williams, Acting Director
5796 Corporate Avenue
Cypress, California 90630

Gavin Newsom
Governor

June 14, 2019

Ms. Sabrina Gonzalez
Leighton, Irvine
sgonzalez@leightongroup.com

Site: 9790 Finch Ave., Fountain Valley
PR4-061319-03

Dear: Ms. Gonzalez:

We have received your Public Records Act Request for records from Department of Toxic Substances Control.

After a thorough review of our files we have found that, no such records exist at this office pertaining to the site/facilities referenced above.

We would like to inform you about Envirostor, a database that provides information and documents on over 5,000 DTSC cleanup sites. Envirostor can be accessed at: http://www.envirostor.dtsc.ca.gov/public.

Cypress is excited to announce the creation of Cypress regional file room email box. Please begin using our email box to request records. These boxes will also allow other regions to provide support regarding PRARs when needed. Please let me know if you have any questions or concerns.

All future PRARs (Public Records Act Requests) are to be emailed to:

CypressFileRoom@dtsc.ca.gov

and if needed, please continue to fax all requests to 714-484-5318.

If you have any questions, would like further information regarding your request, please contact our Regional Records Coordinator at (714) 484-5336

Sincerely,

Jone Barrio

Jone Barrio
Regional Records Coordinator
DTSC-Cypress Administrative Services

Printed on Recycled Paper

Kathy Heard

From: Fatana Temory
Sent: Friday, June 14, 2019 10:31 AM
To: Kathy Heard
Subject: FW: Public Records Request: Environmental
Attachments: 20190614203301135.pdf

Hi Kathy,

Judith responded with the following:

"It is a private school. Please advise City Clerk the City doesn't have any historical documentation on any environmental issues."

Let me know if we can assist an anything else.

Thanks!
Tana

-----Original Message-----
From: Fatana Temory
Sent: Friday, June 14, 2019 8:26 AM
To: Judith Marquez <Judith.Marquez@fountainvalley.org>; Judith Marquez <judithmarquez@caaprofessionals.com>
Cc: Temo Galvez <Temo.Galvez@fountainvalley.org>
Subject: Public Records Request: Environmental

Hi Judith,

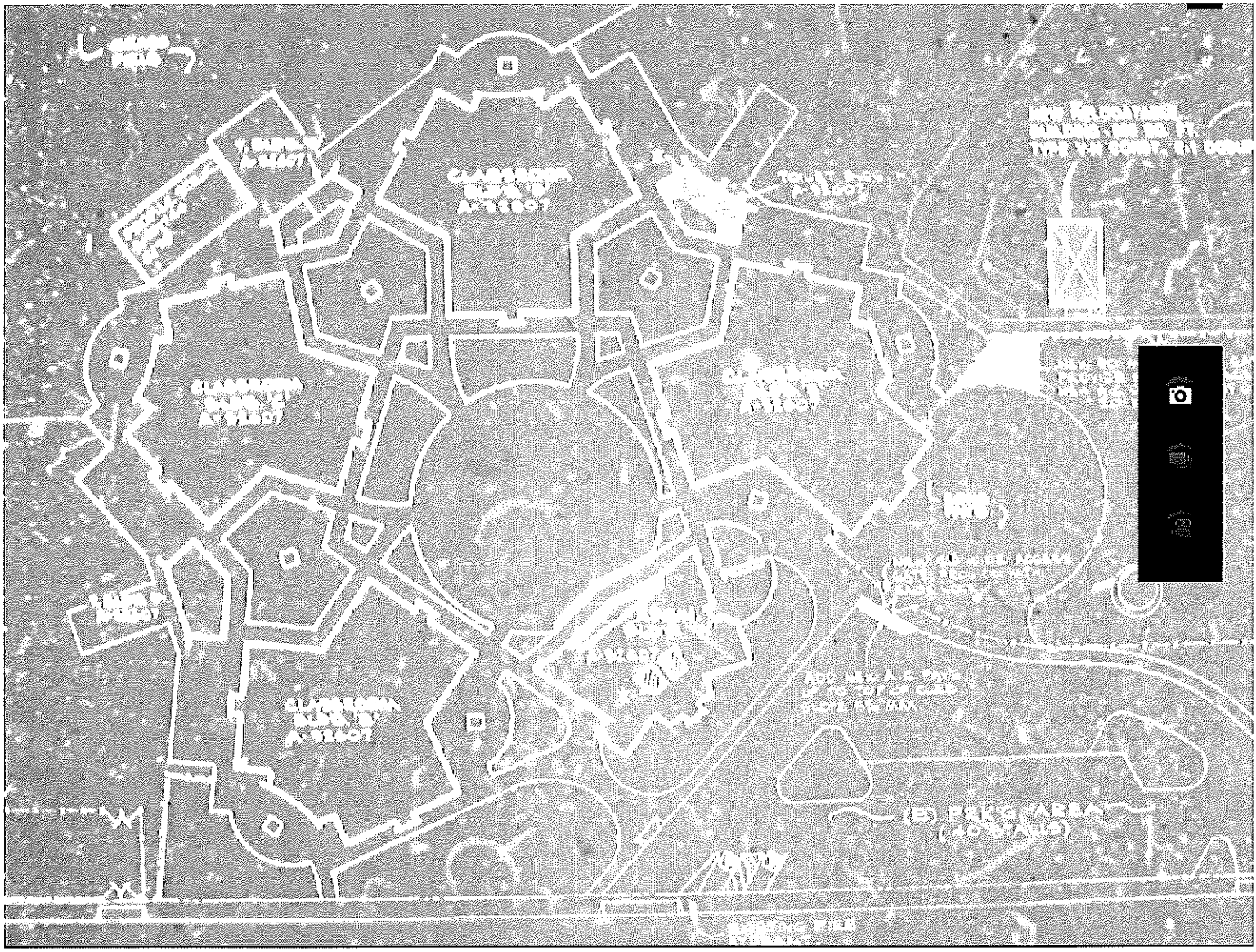
Please see attached for a Public Records Request assigned to you. The due date is June 23, 2019.

Thank you!

Best,

Fatana Temory
Administrative Assistant
City of Fountain Valley, Department of Public Works
10200 Slater Avenue, Fountain Valley, CA 92708 T (714) 593-4433 | F (714) 593-4554 fatana.temory@fountainvalley.org

9790 Flinch Ave.
Received from Bldg. Dept.



Sabrina Gonzalez

From: Kathy Heard <Kathy.Heard@fountainvalley.org>
Sent: Monday, June 17, 2019 10:11 AM
To: Sabrina Gonzalez
Subject: RE: Public Records/Building Records
Attachments: 20190617095703852.pdf; 20190617094836095.pdf

Hello Sabrina,

This email is in response to your recent public records request regarding 9790 Finch Avenue, Fountain Valley, CA
Your request was sent to the Fire Marshal in Fire Administration, the Environmental Services Dept. and the Building Department for responses.

Our Fire Marshal, Michelle Rudaitis responded that no records have been found regarding hazardous waste/materials, under-ground storage tanks, leaking tanks, cleanup or violations. It was sent to our Building Dept. and attached is the material that was sent back to me regarding your inquiry. The Environmental Services Dept. replied with the following: "It is a private school. Please advise the City Clerk the City doesn't have any historical documentation on any environmental issues" related to this property.

Sincerely,
Kathy Heard
Executive Assistant to the City Manager
City of Fountain Valley
Phone: 714-593-4410
www.fountainvalley.org

From: Sabrina Gonzalez [mailto:sgonzalez@leightongroup.com]
Sent: Thursday, June 13, 2019 8:21 AM
To: Rick Miller <Rick.Miller@fountainvalley.org>
Subject: Public Records/Building Records

Good morning,

Leighton and Associates, Inc. is requesting information for the following address:

- 9790 Finch Avenue, Fountain Valley, CA

We are requesting any information concerning hazardous waste/materials, underground storage tanks, leaking underground storage tanks cleanup, inspections, violations, or any other environmental sensitive spills, responses or concerns. We are also requesting any building records that you may have for this address.

Thank you for your assistance.

Sabrina Gonzalez
Staff Geologist
17781 Cowan
Irvine, Ca 92614
Cell – 949.614.9948
Office – 949.681.4293
Fax – 949.250.1114

Leighton
Solutions You Can Build On

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Please don't print this e-mail unless you really need to.

Department of Toxic Substances Control

Jared Blumenfeld
Secretary for
Environmental Protection

Meredith Williams, Ph.D.
Acting Director
9211 Oakdale Avenue
Chatsworth, California 91311

Gavin Newsom
Governor

June 14, 2019

Ms. Sabrina Gonzalez
Leighton and Associates, Inc.
17781 Cowan
Irvine, CA 92614

9790 Finch Avenue, Fountain Valley, CA
PR3-061319-03

Dear Ms. Gonzalez:

We have received your Public Records Act Request for records from the Department of Toxic Substances Control.

After a thorough review of our files we have found that no such records exist at this office pertaining to the site/facility referenced above.

We would also like to inform you about Envirostor, a database that provides information and documents on over 5,000 DTSC cleanup sites. Envirostor can be accessed at: http://www.envirostor.dtsc.ca.gov/public. Also, a computer is available in the Central Files of each DTSC Regional Office for use by community members to view Envirostor.

If you have any questions or would like further information regarding your request, please contact me at (818) 717-6522.

Sincerely,

Glenn Castillo/JVT
Regional Records Coordinator

Printed on Recycled Paper

Regulatory / Medical Health Services
Environmental Health Division – Public Records Request

Name: Meredith Church **Email:** mchurch@leightongroup.com **Date:** 7/2/19

1. Please use this form to describe and specify the records you need.
2. So that we can help you obtain the appropriate records, please describe the reason the records are being requested.

18583 Brookhurst St, Fountain Valley, Crown Cleaners File (closed 5/29/.03) URGENT REQUEST

3. For information on multiple sites (e.g., all sites on one street), provide a specific address number for each site. We are unable to conduct a search for a range of addresses.
4. Attach this completed form to your request at the Records Portal: orangecounty.nextrequest.com

Restaurants, Markets, Food Vehicles, and Other Food Facilities Note: Recent inspection reports for most food facilities are viewable free online: ocfoodinfo.com Inventory reports are available free online: ochealthinfo.com/eh/home/reports	
☐	Complaint Investigation
☐	Health Permit
☐	Application for the Health Permit
☐	Inspection report dated older than 2 years **Date(s) from** _____ **to** _____
☐	Food Plan Check Record SR Number_____

Hotel/Motel, Residential Housing	
☐	Complaint Investigation
☐	Inspection Report **Date(s) from** _____ **to** _____
☐	Notices sent to Owner

---Continued---

Hazardous Materials Programs

☑ **All Dates** ☐ **Date(s) from** _____ **to** _____

Inventory reports are available free online at ochealthinfo.com/eh/home/reports

CUPA (Please contact Anaheim Fire Dept to obtain CUPA records for addresses within Anaheim city limits.)

☐	Hazardous Materials Business Plan File (CERS) (Please contact these cities directly for Hazardous Materials Business Plan File, Chemical Disclosure, and Electronic Submittal: **Costa Mesa, Fountain Valley, Fullerton, Huntington Beach, La Habra, Orange**)
☑	Above Ground Petroleum Storage Tank (APST)
☑	Underground Storage Tank (Please contact these cities directly for UST records: Fullerton, Orange)
☑	Hazardous Waste
☑	Tiered Permitting
☐	CalARP
☐	Complaint record regarding specific Hazardous Materials facility
☑	Local Oversight Program (LOP)
☑	Underground Storage Tank (UST) removal record
☑	Industrial Cleanup Site
☐	Medical Waste Facility Record
☐	Solid Waste Facility

Other Programs

Date(s) from _____ **to** _____

☐	Body Art
☐	Public Pools/Spa - Please note the name of the **complex** where the pool is located: _____
☐	Pool complaint record
☐	Pool inspection report
☐	Pool Plan Check record SR# _____
☐	Beach water quality records; see also ocbeachinfo.com
☐	Cross Connection; backflow tester list can be found at ochealthinfo.com/eh/water/bftesters
☐	Liquid Waste Hauling
☐	Water Well records
☐	Other records:_____

1241 E. Dyer Road, Suite 120, Santa Ana, CA 92705
Telephone: (714) 433-6015
EHRecords@ochca.com
OrangeCounty.nextrequest.com

Sabrina Gonzalez

From: Orange County Public Records <orangecounty@public-records-requests.com>
Sent: Wednesday, June 26, 2019 10:56 AM
To: Sabrina Gonzalez
Subject: [External Message Added] Orange County public records request #19-1891

-- Attach a non-image file and/or reply ABOVE THIS LINE with a message, and it will be sent to staff on this request. --

Orange County Public Records

Hi there

A message was sent to you regarding record request #19-1891:

We are unable to locate some or all of the records requested. If you have any questions please contact this office at (714) 433-6015.

Please note that the cities of Anaheim, Fullerton, Orange, and Santa Ana monitor the underground storage tanks (UST) in those cities.

This Agency may not be the only source of records. Please check with the Fire Department, Water Quality Control Board, and/or the State department of Health Services for records.

The local Building Department may have the plans you are seeking

If you have any questions please call us at (714) 433-6015.

View Request 19-1891

http://orangecounty.nextrequest.com/requests/19-1891



POWERED BY NEXTREQUEST

The All in One Records Requests Platform

Questions about your request? Reply to this email or sign in to contact staff at Orange County.

Technical support: See our help page

Sabrina Gonzalez

From: OCSD Records and Info Portal <ocsd@mycusthelp.net>
Sent: Thursday, June 13, 2019 7:01 AM
To: Sabrina Gonzalez
Subject: Public Records Request :: P000924-061219

Follow Up Flag: Follow up
Flag Status: Flagged

--- Please respond above this line ---

Dear Sabrina,

The Orange County Sanitation District (OCSD) has completed its review of your June 12, 2019 Public Records Request.

Request Description:

"Leighton and Associates, Inc. is requesting information for the following address: 9790 Finch Avenue, Fountain Valley, CA. We are requesting any information concerning hazardous waste/materials, underground storage tanks, leaking underground storage tanks cleanup, inspections, violations, or any other environmental sensitive spills, responses or concerns."

Request Determination:

OCSD has reviewed its files and has determined that there are no responsive records associated with this request. If you have any questions regarding this request you may send a message via your Request Portal account or contact us directly at (714) 593-7050.

Sincerely,

Jana Gutierrez

Orange County Sanitation District

Please log in to review.

To monitor the progress or update this request please log into the Public Records and Information Center.

COUNTY OF ORANGE
HEALTH CARE AGENCY

REGULATORY HEALTH SERVICES
ENVIRONMENTAL HEALTH

JULIETTE A. POULSON, RN, MN
DIRECTOR

MIKE SPURGEON
DEPUTY AGENCY DIRECTOR
REGULATORY HEALTH SERVICES

STEVEN K. WONG, REHS, MPH
DIRECTOR
ENVIRONMENTAL HEALTH

MAILING ADDRESS:
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720

TELEPHONE: (714) 667-3600
FAX: (714) 972-0749
E-MAIL: environhealth@hca.co.orange.ca.us

Excellence
Integrity
Service

May 29, 2003

Henry Avila
Donahue Schriber Realty Group, L.P.
2200 W. Florida Avenue #300
Hemet, CA 92545

Subject: **Case Closure**

Re: Crown Cleaners
18583 Brookhurst Street
Fountain Valley, CA 92708
OCHCA Case #96IC031

Dear Mr. Avila:

This letter confirms the completion of remedial action at the above-referenced sites. With the provision that the information provided to this Agency was accurate and representative of existing conditions, it is the position of this office that no further action is required at this time.

This confirmation of completion is limited in scope. It is limited to site conditions made known to this Agency under the above-referenced case number. It is based on an evaluation of the health threat presented by the inhalation, ingestion, or dermal absorption of the residual contaminants. In addition, this evaluation considered the present and proposed use of the property. Changes in the present or proposed land use may require further site characterization and/or site mitigation activity.

The presence of halogenated volatile organic compounds (PCE, TCE and DCE) and the potential for residual contamination present at this site to cause further groundwater degradation was discussed with Kamron Saremi of the Santa Ana Regional Water Quality Control Board. Regional Board staff concurred that no further action is required at this time.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present or future operations at the site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site, which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health. It is the property owner's responsibility to notify this Agency of any changes in future contamination findings or site usage.

Scanned by CamScanner

If you have any questions regarding this matter, please contact Luis Lodrigueza at (714) 667-3717.

Sincerely,

Karen L. Hodel
Program Manager
Hazardous Materials Mitigation Section
Environmental Health Division

KLH:LL:

cc: Ann Sturdivant, Santa Ana Regional Water Quality Control Board
William Ragsdale, Converse Consultants

IC:crowncleaners.closure/lal

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Case Closure Rationale

D.B.A.: **Crown Cleaners**
18583 Brookhurst Street
Fountain Valley, CA 92708

OCHCA Case No.: **96IC31**

Responsible Party: Donahue Schriber Realty

Current Land Use: Commercial
Current Adjacent Land Use: Commercial
Future Land Use: Commercial

Soil Types: Clay/silty clay to 6' bg, followed by sand/silty sand
Depth to Groundwater: 10'-13' below grade (bg)

The subject Cleaners, one of several tenants within the Callens Corner Shopping Center, has been in operation since 1990 and has been the subject of at least three phases of environmental investigation conducted by Converse Consultants (Converse). The initial site investigation was conducted in May 1996 when Converse drilled twelve (12) hand auger borings—eight (8) surrounding the dry cleaning machine, one (1) in the boiler room and three (3) outside the rear door. Soil samples were collected at depths of 2' and 5' bg from the three initial boreholes, with 7'-deep samples also taken from two later outdoor boreholes, as well as 7'- and 9'- or 10'-deep samples collected from the seven subsequent indoor boreholes. These were all analyzed for halogenated volatile organic compounds (VOCs) by EPA Method 8010. Elevated concentrations of PCE (up to 8.9 mg/kg) and TCE (up to 0.64 mg/kg) were detected in the vicinity of the dry cleaning machine and in the boiler room.

Table I - Nature and Degree Contamination

Contaminants	Maximum Contaminant Concentrations				Cleanup Goals: G/water-MCL*^ Soil—PRG^
	Soil—Initial [mg/kg]	Soil—Final [mg/kg]	Groundwater [mg/l] (Crown Cleaners)	Groundwater [mg/l] (Adjacent Spaces)	
Tetrachloroethene (PCE)	63 (1' bg*) 5.4 (5' bg) 0.64 (10' bg)	8.04 (1' bg) 2.61 (5½' bg) 0.64 (10' bg)	0.76 (HA-15) 2/98 0.31 (MW-2^) 5/99 0.081 (MW-3) 5/99 1.0 (MW-3) 9/02 0.53 (MW-4) 5/99 0.035 (MW-4) 9/02	Upgradient (Albertson's) - 0.002 (7/02) Crossgradient (Outside rear door) – 0.066 (4/02) 0.16 (9/02) Downgradient (Water & Ice Shop) - 0.375 (3/02)	PRG= 19 mg/kg MCL= 0.005 mg/l
Trichloroethylene (TCE)	0.099 (0.5' bg) 0.64 (2' bg) 0.15 (5' bg) 0.012 (10' bg)	0.866 (1' bg) 0.64 (2' bg) 0.083 (5½' bg) 0.012 (10' bg)	0.037 (HA-15) 2/98 0.018 (MW-2) 5/99 0.003 (MW-3) 5/99 0.16 (MW-3) 9/02 0.036 (MW-4) 5/99 0.004 (MW-4) 9/02	Upgradient - ND** (7/02) Crossgradient - 0.03 (4.02) 0.11 (9/02) Downgradient - 0.094 (3/02)	PRG= 6.1 mg/kg MCL= 0.005 mg/l
Dichloroethylene (cis 1,2-DCE)	0.051 (2' bg) 0.017 (5' bg)	0.165 (1' bg) 0.018 (5½' bg)	0.014 (MW-3) 9/02 0.004 (MW-4) 5/99 ND (MW-4) 9/02	Upgradient - ND (7/02) Crossgradient - 0.02 (9/02) Downgradient - 0.01(3/02)	PRG= 150 mg/kg MCL= 0.006 mg/l

*Below grade ^US EPA-Region IX Preliminary Remediation Goal (Industrial) within 5' of final grade
^CA DHS Maximum Contaminant Levels **Not Detected ^Sampled only once, then abandoned

In response to this Agency's request for further assessment, Converse drilled in February 1998 five additional hand auger boreholes—three farther east and south of the dry cleaning machine, one between the machine and the boiler room, and one in the boiler room itself. Soil samples were obtained at depths of 1' and 3½' bg, with one grab groundwater sample also collected from the borehole (HA-15) southwest of the dry cleaning machine. All samples were tested for VOCs by EPA Method 8260B, and laboratory results showed the presence of solvents in soil at even higher PCE concentrations (up to 63 mg/kg between the boiler room and the machine, and up to 47 mg/kg southwest of the machine) than the previous ones. TCE was also detected but at much lower concentrations (maximum of 0.099 mg/kg in the borehole southwest of the machine). Low concentrations of cis-1,2-DCE (up to 0.022 mg/kg) and 1,2-DCA (up to 0.015 mg/kg) were also detected. Test results of the grab water sample (encountered at 13' bg) from HA-15 showed 0.76 mg/l PCE and 0.037 mg/l TCE. At this time, a monitoring well (MW-1) was installed just outside the rear door, with soil samples

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In July 2002, Converse drilled three geoprobe holes in the bakery section of Albertson's store (immediately opposite Crown Cleaners' machine and boiler) where previous boreholes showed elevated solvent concentrations to as deep as 10'bg. Groundwater samples (in duplicate) were collected from all boreholes, as requested by the Regional Board, and analyzed for VOCs by EPA Method 8260. Two laboratories—Associated and Del Mar—reported identical results, i.e., (1) ND PCE in two borings with trace PCE in one and (2) ND TCE and DCE in all borings. Unexpectedly, however, MTBE was detected at trace concentrations in all groundwater samples, and benzene was detected in the water sample from the easternmost boring (HA-32)—at 2 ug/l (Associated) [5.4 ug/l, Del Mar]. Del Mar also reported trace concentrations of toluene and xylenes in HA-32.

A vapor risk assessment was conducted for the Cleaners using OCHCA's mass-based model. The maximum concentration of each of PCE and TCE in soil, assumed to be present in 3 soil layers (½'-1½' bg, 1½'-6½' bg and 6½'-11' bg) spread over an area slightly more than half the total dry cleaner floor area, was used to calculate the total mass of PCE and TCE beneath the facility. The total mass of PCE and TCE in groundwater was also calculated from the maximum detected concentration of each and the porosity of the aquifer, and then directly inputted into the model. The combined excess cancer risk from both PCE and TCE in soil and in groundwater was then calculated. The result showed an acceptable risk level of less than one in one million ($<1 \times 10^{-6}$). A supplemental risk assessment was also run for both the Albertson's grocery store and the Water & Ice Shop, using the same conservative methodology as with Crown Cleaners. The resulting combined excess cancer risk from residual PCE/TCE contamination in both soil and groundwater for each tenant space was less than one in one million.

Regional Board staff was consulted regarding the presence of contamination in groundwater. The highest concentrations of PCE (max of 1.0 mg/l) and TCE (max 0.16 mg/l) are confined to groundwater beneath the western halves of Crown Cleaners and the Water & Ice Shop and just beyond the back doors of both tenant spaces. Because the source of contamination has been removed and no future release is likely due to the presence of a secondary containment beneath the machine, no further groundwater degradation is anticipated. In view of this, and the expected naturally attenuation of existing groundwater contamination over time, Regional Board staff decided not to require further groundwater investigation or remedial action for the site at this time.

Based on the low concentrations of PCE, TCE and DCE beneath the dry cleaner and adjacent tenant sites that do not pose any serious threat to health or safety, as well as the Regional Board's position that no further groundwater investigation is required, it is recommended that this case be closed.

5/16/03 Karen Y. Hale 5/28/03

Luis Lodrigueza
Hazardous Waste Specialist

IC:crowncleaners/closure

May 15, 2003

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CRWQCB - REGION 8
ACS 9/22
2003 SEP 22 AM 8:27
MGC

February 14, 2003

Mr. Luis Lodrigueza
Orange County Health Care Agency
2009 E. Edinger Avenue
Santa Ana, California 92705

Subject: **RESPONSE LETTER**
Request For Confirmation Sample Clarification
Crown Cleaners
18583 Brookhurst Street
Placentia, California
Converse Project No. 00-42-703-02
OCHCA Case File No. 96IC31

Dear Mr. Lodrigueza:

Converse Consultants (Converse), on behalf of Donahue Schriber, presents this response to your request for clarification of excavation confirmation sample ACF24EWW and its reported PCE concentration of 8.040 milligrams per kilogram (mg/Kg).

During the excavation and confirmation sampling activities at the above referenced site, the analytical results of one confirmation sample (Sample CF24EWW) indicated a PCE concentration of 2.65 ppm. Based on this result, Mr. Louis Lodrigueza requested the removal of approximately one to two additional feet of soil along the west side of Excavation E. Upon completing this subsequent removal, confirmation Sample ACF24EWW was collected and submitted for analysis. Based on the analytical results of other confirmation samples, representative samples previously collected in this area and the further removal noted above, Converse believed that no further excavation would be required.

The excavation was then backfilled with slurry and the floor was finished with concrete prior to the reported analysis of Sample ACF24EWW. Subsequent analytical results of confirmation sample ACF24EWW indicated a PCE concentration of 8.040 mg/Kg. Based on the analytical results of other confirmation samples and representative samples previously collected in this area, Converse estimates that approximately one cubic foot (ft^3) in the vicinity of Sample ACF24EWW is impacted with a concentration of PCE exceeding the residential Preliminary Cleanup Goal (PRG) of 5.7 mg/kg, but below the industrial PRG of 19.0 mg/Kg. The location of the confirmation samples, the approximate area of additional soil removal, the locations of previous samples and the estimated area of soil impacted by PCE concentrations greater than 5.7 mg/kg are shown on Figures 1 and 2.

Converse believes that the impacted soil left in place poses no threat to human health. No further assessment or remediation activities are necessary at this time. Converse believes

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the Remedial Action Plan approved for this site as been implemented satisfactorily with the contaminant plume largely removed and respectfully request site closure. We are available at your convenience for a meeting.

If you have any questions concerning this letter, please contact either William Ragsdale or Stanley White at (714) 444-9660.

Sincerely,

CONVERSE CONSULTANTS

William Ragsdale
Senior Staff Environmental Scientist

Stanley G. White, R.G.
Senior Geologist,

Attachment:

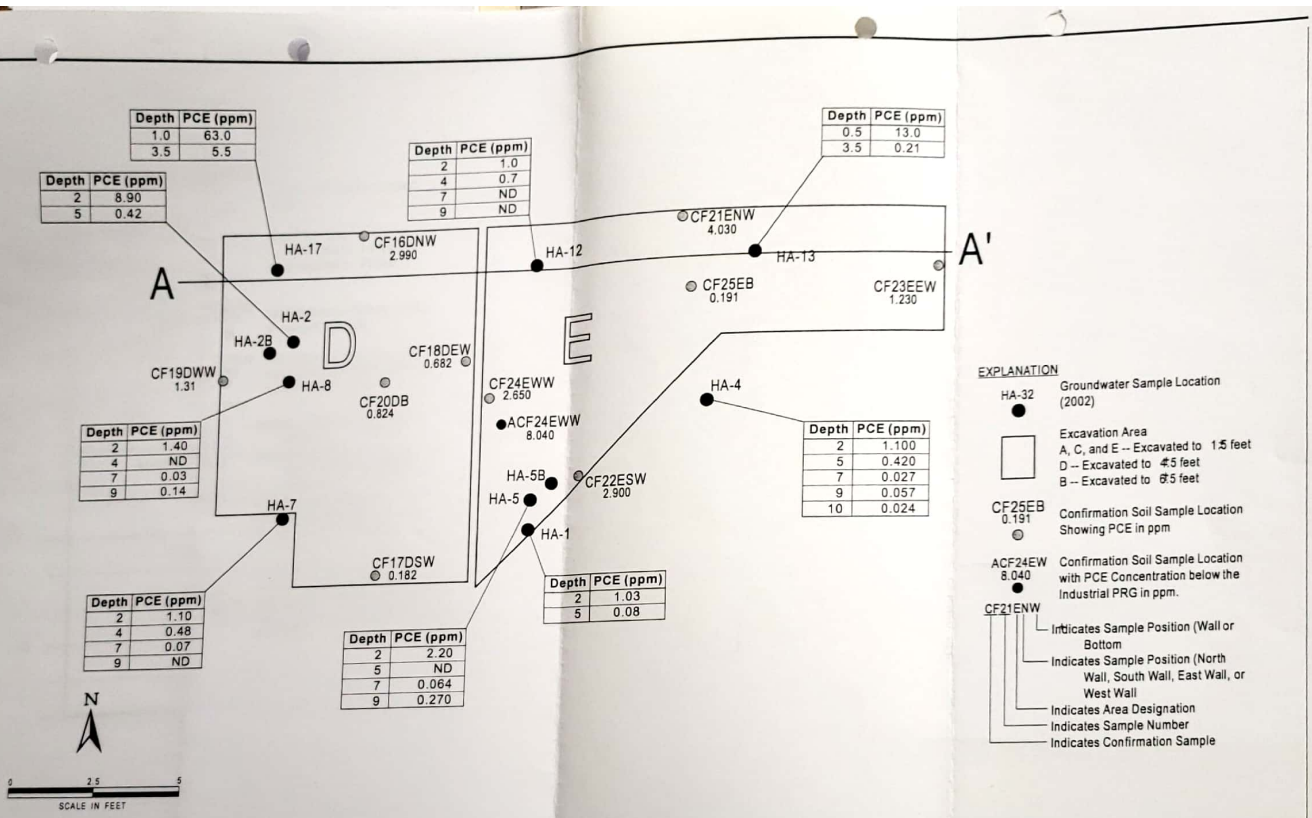
Figure 1 – PCE Soil Concentration Map
Figure 2 – Cross Section

Dist: 1/addressee

1/Mr. Henry A. Avila
Donahue Schriber Realty Group, L. P.
2200 W. Florida Ave., #300
Hemet, California 92545

1/Mr.Kamron Saremi
Santa Ana RWQCB
3737 Main Street, Suite 500
Riverside, CA 92501-3339

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Depth	PCE (ppm)
1.0	63.0
3.5	5.5

Depth	PCE (ppm)
2	8.90
5	0.42

Depth	PCE (ppm)
2	1.0
4	0.7
7	ND
9	ND

Depth	PCE (ppm)
0.5	13.0
3.5	0.21

Depth	PCE (ppm)
2	1.40
4	ND
7	0.03
9	0.14

Depth	PCE (ppm)
2	1.100
5	0.420
7	0.027
9	0.057
10	0.024

Depth	PCE (ppm)
2	1.10
4	0.48
7	0.07
9	ND

Depth	PCE (ppm)
2	2.20
5	ND
7	0.064
9	0.270

Depth	PCE (ppm)
2	1.03
5	0.08

EXPLANATION

HA-32 ● Groundwater Sample Location (2002)

Excavation Area
A, C, and E -- Excavated to 15 feet
D -- Excavated to 4.5 feet
B -- Excavated to 6.5 feet

CF25EB 0.191 ● Confirmation Soil Sample Location Showing PCE in ppm

ACF24EW 8.040 ● Confirmation Soil Sample Location with PCE Concentration below the Industrial PRG in ppm.

CF21ENW
- Indicates Sample Position (Wall or Bottom
- Indicates Sample Position (North Wall, South Wall, East Wall, or West Wall
- Indicates Area Designation
- Indicates Sample Number
- Indicates Confirmation Sample

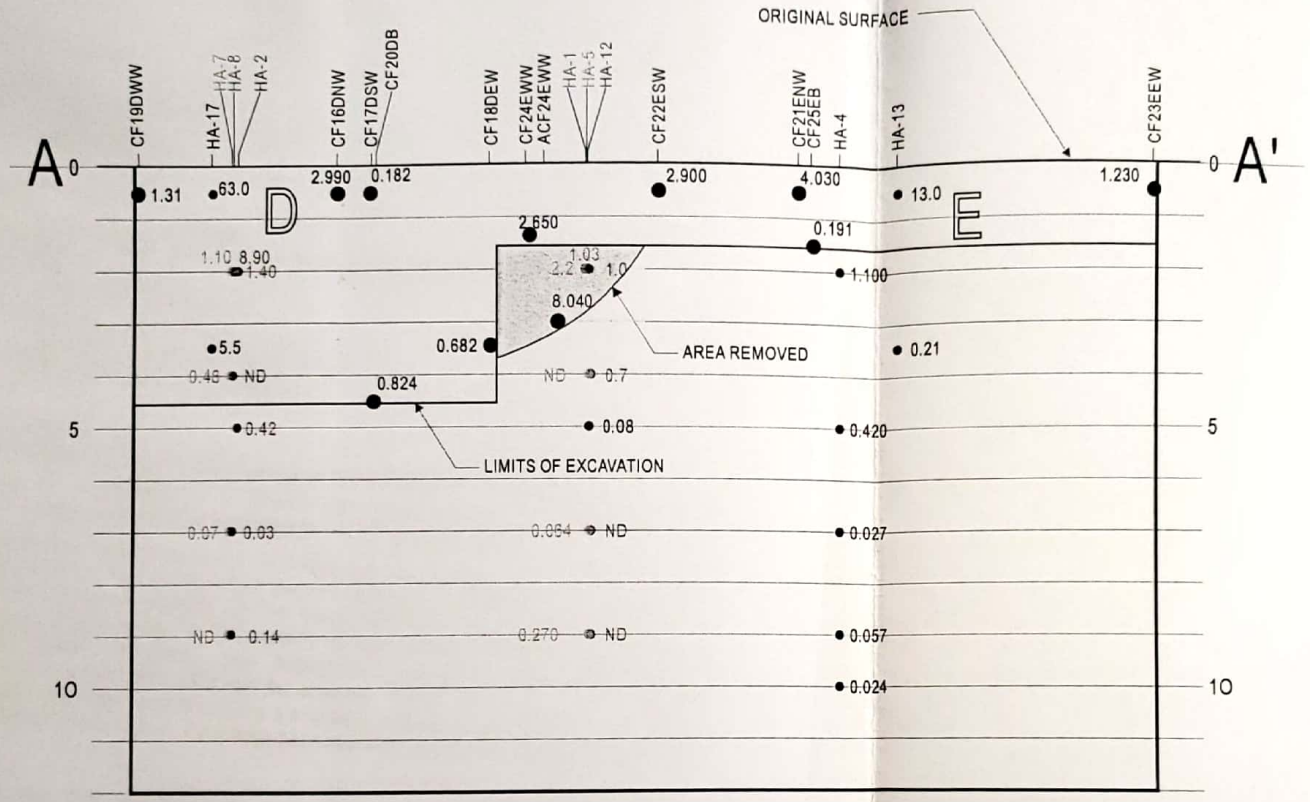
PCE SOIL CONCENTRATION MAP

CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Geotechnical Engineering and Applied Sciences

Scale: AS SHOWN
Project No.: 00-42-703-02
Date: 2/03
Prepared By: KLF
Checked By: WLR
Approved By: WLR
Figure No.: 1

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EXPLANATION

HA-32 ● Groundwater Sample Location (2002)

Excavation Area
E -- Excavated to 1.5 feet ±
D -- Excavated to 4.5 feet ±

CF25EB 0.191 ● Confirmation Soil Sample Location Showing PCE in ppm

ACF24EW 8.040 ● Confirmation Soil Sample Location with PCE Concentration below the Industrial PRG in ppm.

CF21ENW
- Indicates Sample Position (Wall or Bottom
- Indicates Sample Position (North Wall, South Wall, East Wall, or West Wall
- Indicates Area Designation
- Indicates Sample Number
- Indicates Confirmation Sample

HA-7 HA-8 HA-2
1.10 8.90 1.40

Colors used solely to differentiate Samples when samples appear to overlap in the section. Sample Name, Location, and Data Point are in corresponding colors for each level

CROSS SECTION

CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Geotechnical Engineering and Applied Sciences

Scale	AS SHOWN
Date	2/03
Prepared By	KLF
Checked By	WLR
Approved By	WLR
Project No.	00-42-703-02
Figure No.	2

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Over 50 Years of Dedication in Geotechnical Engineering and Environmental Sciences

October 1, 2002

Mr. Henry A. Avila
Donahue Schriber Reality Group, L.P.
2200 West Florida Avenue #300
Hemet, California 92545

Subject: **Remedial Action And Groundwater Sampling Report**
Crown Cleaners
18583 Brookhurst Street
Placentia, California
Converse Project No. 00-42-703-02

Converse Consultants (Converse) is pleased to submit this Final Report that summarizes the findings and results of the recently completed fieldwork and the remedial actions conducted in June 2002 for the above referenced property. For Site Location Map, see Figure 1. Our services were completed in accordance with our scope of work and contract Number 0531-2002.

Background

Based on the results of previous assessments conducted at the property, Converse prepared a Remedial Action Plan (RAP), dated June 6, 2002, for the removal of PCE impacted soil with concentrations that exceed the EPA residential Preliminary Remediation Goal (PRG) of 5.7 ppm. In preparation for initiating remedial action at the site, the RAP was submitted to the OCHCA for review and approved by the OCHCA in their letter dated *May 20, 2002* on the condition that three (3) additional groundwater samples are collected from the Albertson's Store north of the dry cleaners using a limited access Geoprobe drilling rig. In accordance with the scope of work presented in the approved RAP, and the OCHCA condition of approval, the following remedial and groundwater sampling activities were completed at the site.

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REMEDIAL ACTIVITIES

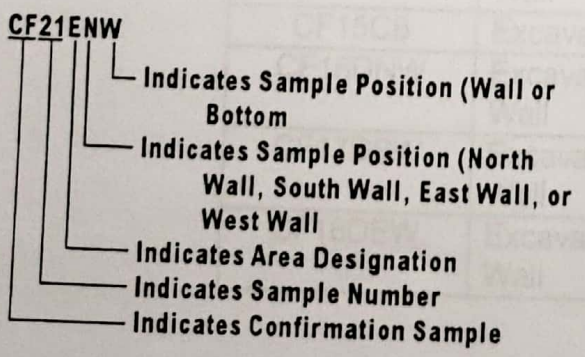
Prior to initiating remedial activities at the site, a site specific Health and Safety Plan was prepared, all permits needed to complete the work were obtained and Under Ground Service Alert (USA) was notified a minimum of forty eight hours prior to the start of work. The front of the dry cleaning suite was segregated from the work area in the rear by placing sheets of visqueen from ceiling to floor (approximately 15-feet) across the entire suite between north and south walls (approximately 20-feet).

On June 22, 2002 Foss Environmental (Foss) removed the dry cleaning machine that was located in the vicinity of the proposed excavations. The concrete floor over the five excavation areas was saw cut and removed. The soil within these areas was then excavated by hand to the proposed depth of 1.5, 4.5 or 6.5 feet bgs. The locations and depths of the excavations are shown on Figure 2. The excavation extended up to but not beneath the footings of the building in order to maintain the structural integrity of the building.

During the excavation, the area was monitored to identify elevated levels of fugitive emissions using a photo ionization detector (PID). No concentrations of PCE above the Site Specific Health and Safety Plan action level were encountered during the completion of the excavation. The air monitoring records are presented in Appendix A.

Upon completion of the excavation, twenty-seven (27) confirmation soil samples were collected from the bottom and sidewalls (approximately 10 to 12-inches above the bottom) of the excavations as directed by Mr. Louis Lodrigueza, a representative of the OCHCA. The samples were sealed, labeled, placed in a chilled cooler and transported to a State Certified Laboratory under chain-of-custody documentation. The confirmation samples were analyzed in accordance with EPA Method 8260 for Volatile Organic Compounds (VOCs) on a 24-hour turn around basis. All of the confirmation soil samples were collected in accordance with EPA Method 5035. The confirmation sample PCE analytical results are presented in Table 1 below.

Sample Number Definition:



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TABLE 1
Confirmation Sample PCE Analytical Results

Sample Number	Location	PCE Analytical Result (mg/kg)
CF1ANW	Excavation A North Wall	0.004
CF2ASW	Excavation A South Wall	1.90
CF3AEW	Excavation A East Wall	4.480
ACF3AEW	Excavation A East Wall Resample	2.260
CF4AWW	Excavation A West Wall	0.649
CF5AB	Excavation A Bottom	1.030
CF6BNW	Excavation B North Wall	2.610
CF7BSW	Excavation B South Wall	7.36
CF8BEW	Excavation B East Wall	0.540
CF9BWW	Excavation B West Wall	0.125
CF10BB	Excavation B Bottom	0.363
CF11CNW	Excavation C North Wall	0.427
CF12CSW	Excavation C South Wall	1.030
CF13CEW	Excavation C East Wall	0.293
CF14CWW	Excavation C West Wall	2.610
CF15CB	Excavation C Bottom	1.200
CF16DNW	Excavation D North Wall	2.990
CF17DSW	Excavation D South Wall	0.182
CF18DEW	Excavation D East Wall	0.682

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TABLE 1
Confirmation Sample PCE Analytical Results

Sample Number	Location	PCE Analytical Result (mg/kg)
CF19DWW	Excavation D West Wall	1.31
CF20DB	Excavation D Bottom	0.824
CF21ENW	Excavation E North Wall	4.030
CF22ESW	Excavation E South Wall	2.900
CF23EEW	Excavation E East Wall	1.230
CF24EWW	Excavation E West Wall	2.650
ACF24EWW	Excavation E West Wall Resample	8.040
CF25EB	Excavation E Bottom	0.191

mg/kg = milligrams per kilogram
ND = not detected at the laboratory reporting limit

Analytical results indicated that the confirmation samples, with the exception of two samples, contained PCE concentrations less than the 5.7 mg/kg residential PRG. Analytical results of Samples CF7BSW and ACF24EWW indicated PCE concentrations of 7.36 and 8.04 mg/kg respectively in these samples. Sample CF7BSW was collected from the south wall of excavation area B, located adjacent to a column footing. To avoid undermining this footing, no additional soil in this area was removed. During the sampling activities Mr. Louis Lodrigueza requested the removal of approximately one to two additional feet of soil along the west side of excavation E (in the vicinity of Sample CF24EWW). Upon completing this removal, Sample ACF24EWW was collected and no further excavation was completed. Based on the results the remedial activities and previous soil samples collected in these excavations, Converse estimates that less than 0.5-cubic yard (yd^3) and less than 1-$yd^3$of soil affected by PCE concentrations of greater than 5.7 mg/kg was left in place in the excavations B and E respectively.

The complete confirmation sample analytical results are presented in the Laboratory Analytical Report in Appendix B.

Upon completion of the confirmation sampling, the excavation was backfilled with sand slurry and finished with four–inches of concrete, reinforced with rebar, to match the existing floor.

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On June 28, 2002, the floor in the vicinity of the dry cleaning machine was coated with a PCE-resistant paint and baseboards were installed on the walls in the vicinity of the dry cleaning machine. Upon curing of the floor coating, the dry cleaning machine and containment pan were reinstalled. Secondary containment pans were subsequently installed beneath the evaporator and drums containing waste PCE and filters.

On July 10, 2002, approximately 55-yd^3 of PCE-affected soil was delivered to Kettleman Hills Disposal Facility (a Class I Landfill) in Kettleman City, California for disposal. A copy of the transportation and disposal manifest is presented in Appendix C.

GROUNDWATER SAMPLING

On July 25, 2002, in compliance with the OCHCA request for additional groundwater sampling, Converse completed three soil borings inside the Albertson's Market to the north of the site. Borings HA-30, HA-31, and HA-32 were completed to a depth of approximately 16-feet bgs using a limited access hydraulically driven Geoprobe drilling rig. Upon completion of the borings, groundwater samples were recovered using a low flow pump and Teflon tubing. The samples were collected in 40-milliliter VOA Vials, labeled, placed in a chilled ice chest and transported to a state certified laboratory for analysis. The samples were handled and transported using EPA chain-of-custody protocol. During sampling duplicate samples were collected for submittal to a secondary laboratory for the purpose of quality assurance and quality control measures.

All of the groundwater samples were analyzed for Volatile Organic Compounds (VOCs) using EPA Method 8260 by Associated Laboratories in Orange California, duplicate samples were also submitted to Del Mar Analytical Laboratory. The groundwater PCE analytical results are summarized below. For the analytical results for analytes other than PCE, see the complete Laboratory analytical Report in Appendix B.

TABLE 2
Groundwater Sample PCE Analytical Results

Sample Number	Location	PCE Analytical Result (ug/l)
HA-30	Albertson's	ND ***(ND)***
HA-31	Albertson's	0.002 ***(0.0018)***
HA-32	Albertson's	ND ***(ND)***

ug/l = micrograms per liter
ND = not detected at the laboratory reporting limit
BOLD ITIALICS = secondary lab results

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Summary of Results

Based on the completion of the remedial activities presented in the Remedial Action Plan dated June 6, 2002, and the laboratory analysis of confirmation soil samples, Converse presents the following summary of results.

- With the exception of two areas, the analytical results of the soil samples collected from the sidewalls and bottoms of the excavations indicated that soil with PCE concentrations greater than the residential PRG of 5.7 mg/kg had been removed. These analytical results also indicated that soil beneath the column footing in the vicinity of Sample CF7BSW and soil in the bottom of excavation E, in the vicinity of Sample ACF24EWW are affected by PCE concentrations of 7.36 and 8.04 mg/kg respectively. These concentrations are slightly above the PCE residential PRG of 5.7 but well below the industrial PRG of 19 mg/kg. Converse estimates that the PCE affected soil remaining in these two areas totals less than 1.5 yd^3.

- Laboratory analytical results of three groundwater samples collected in the Market immediately north of the site indicated a detectable concentration (0.002ug/l) of PCE in Sample HA-31. No other concentrations were detected in groundwater samples collected in this area.

- Converse believes that with current removals of the PCE impacted soil, and its proper disposal no further remediation of the dry cleaning facility is needed.

Recommendations

Based on the completion of the remedial actions at the site and the above results, Converse recommends that this report be submitted to the OCHCA and requests that the Orange County Health Care Agency issue a letter requiring no further action for this site at this time.

Closure

This report has been prepared for the exclusive use of Donahue Schriber Reality Group, L.P. in accordance with the terms and conditions under which these services were provided. Any reliance on this report by third parties shall be at third party's sole risk. Our services have been performed in accordance with applicable state and local ordinances, and generally accepted practices in the geosciences. No other warranty, either expressed or implied, is made.

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Converse Consultants is not responsible or liable for any claims or damages associated with interpretation of available information provided by others. Site exploration identifies actual subsurface conditions only at those points where samples are taken, when they are taken. Data derived through sampling and analytical testing are extrapolated by geoscientists, who then render an opinion about overall subsurface conditions. Actual conditions in the areas not sampled may differ from the predictions. This report should not be regarded as a guarantee that no further contamination, beyond that which was detected in our investigation, is present beneath the property. In the event that changes to the property occur, or additional, relevant information about the property is brought to our attention, the recommendations contained in this report may not be valid unless these changes and additional relevant information are reviewed and the recommendations of this report are modified in writing.

If you have questions or comments relative to the findings presented herein, please call me at (714) 444-9660.

Sincerely,
CONVERSE CONSULTANTS

REGISTERED GEOLOGIST
STANLEY G. WHITE
NO. 7342
EXP. 10/03
STATE OF CALIFORNIA

William Ragsdale
Senior Staff Environmental Scientist

Stanley G. White, R.G.
Senior Geologist

Norman S. Eke, REA
Managing Officer

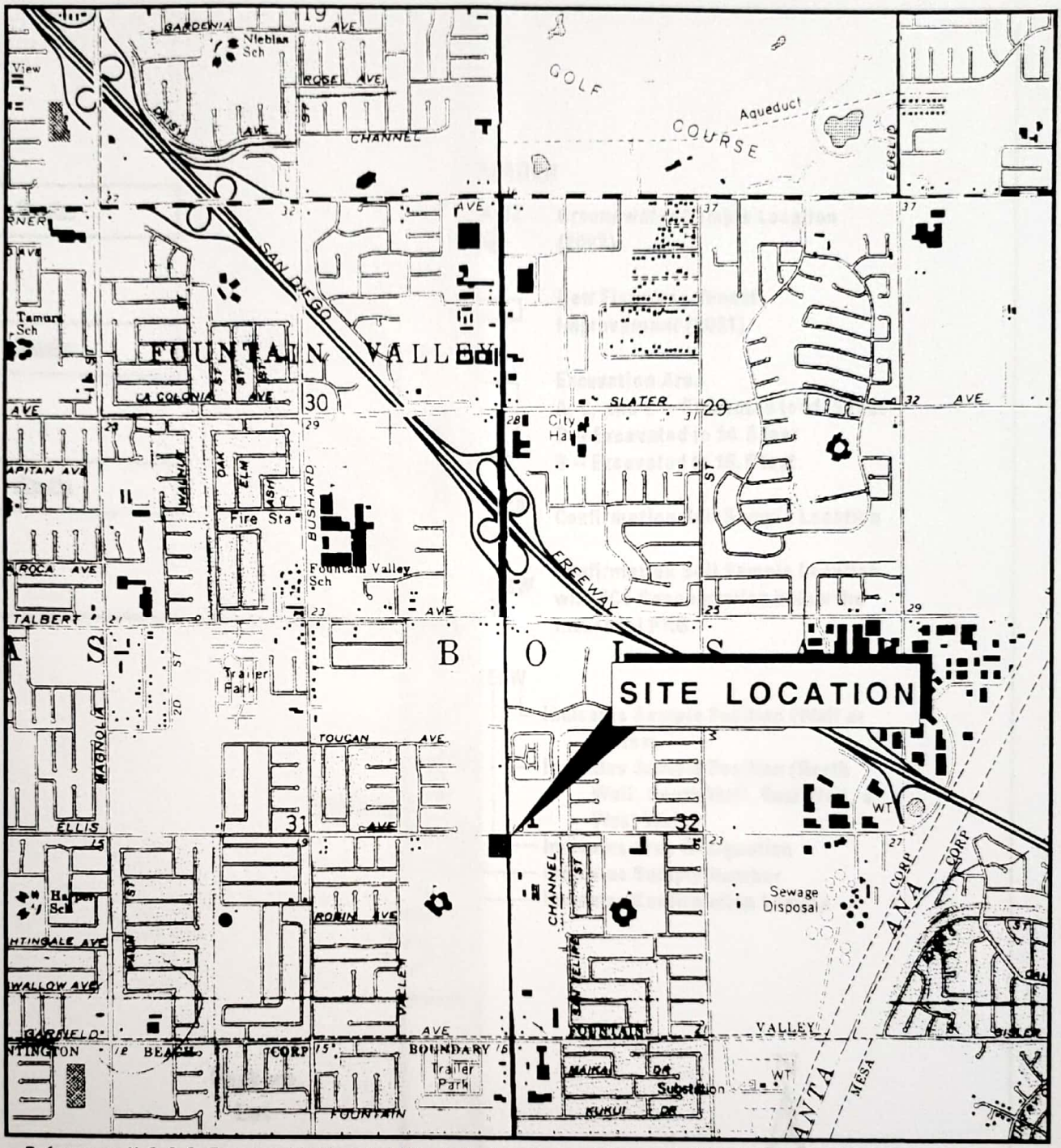
cc: Louis Lodrigueza – Orange County Health Care Agency

Encl: Figure 1 - Site Location Map
Figure 2 - Site Map
Appendix A - Air Monitoring Records
Appendix B – Laboratory Analytical Reports
Appendix C –Soil Transportation and Disposal Manifests

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FIGURES

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Reference: U.S.G.S. Topographic Map, 7.5 Minute Series, Newport Beach, California Quadrangle, Photorevised 1972.

SITE LOCATION MAP

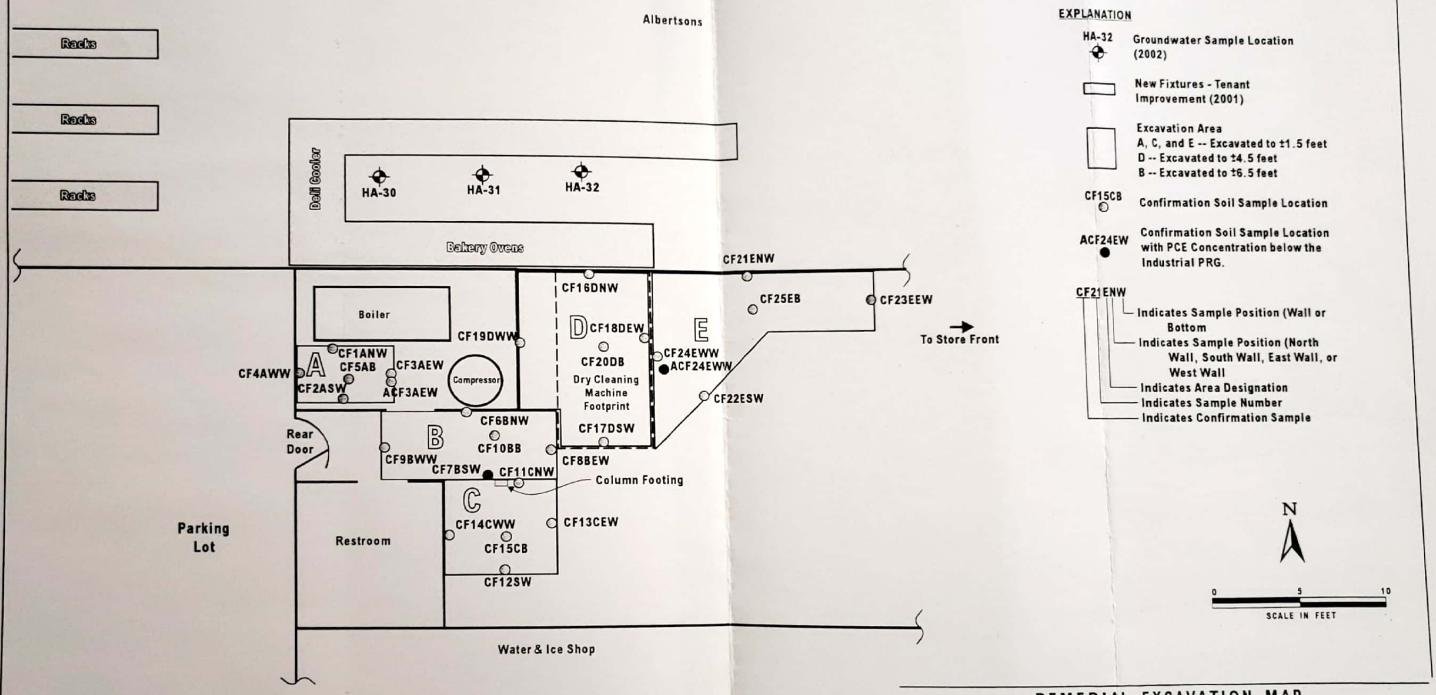
CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Project No.
00-42-703-02

Figure No.
1

Converse Consultants
Geotechnical Engineering and Applied Sciences

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REMEDIAL EXCAVATION MAP

CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Converse Consultants
Geotechnical Engineering and Applied Sciences

Scale	AS SHOWN
Project No.	00-42-703-02
Date	9/02
Prepared By	KLF
Checked By	
Approved By	
Figure No.	2

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CONVERSE ENVIRONMENTAL WEST

Celebrating 50 Years of Dedication in Engineering and Environmental Sciences

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KLH
ES

August 6, 1996

Ms. Lisa Barkemeyer
Diversified Shopping Centers
P.O. Box 5047
Costa Mesa, California 92628-5047

Report is in Elpando File

Subject: **Summary Report - Site Investigation Results**
Crown Cleaners (existing dry cleaner facility)
18583 Brookhurst Street
Fountain Valley, California
Converse Project No. 96-42318-03

Dear Ms. Barkemeyer:

Introduction

Converse Environmental West (Converse) is pleased to submit this Report summarizing the findings from our facility walkthrough and subsequent field investigation at Crown Cleaners. The work was conducted between April 25, 1996 and May 22, 1996, at the above referenced property. Our services were performed in accordance with our proposals dated April 17, 1996, May 6, 1996, and May 21, 1996.

Purpose and Scope of Work

In order to reduce uncertainties associated with site use as a dry cleaner, Converse has evaluated site conditions at the subject property for potential adverse environmental impacts.

General concerns noted with any solvent based dry cleaner operation include the following areas:

- Possible discharge of solvents in the subsurface soils (through seams and cracks in the floors), both in the areas where solvent is stored (past and present), and in the area near the dry cleaner equipment exists (past and present).
- Possible unauthorized discharge of solvents into the sewer system. Because the facility is older than 10 years, the sewer pipes may have leaked, causing the solvents to impact the soils in the area of the sewer lateral, prior to connection to the common main service pipe.

Converse Environmental *WEST*
15245 Alton Parkway, Suite 100
Irvine, California 92718-2307

Telephone: (714) 453-2880
Facsimile: (714) 453-2888
http://www.converseconsultants.com/

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- Solvents may be present within the roof area due to possible venting of a previous dry cleaning machine.

In order gain a higher level of confidence that the dry cleaner business has not negatively impacted the subject property, Diversified Shopping Centers requested that a sampling and analyses plan be developed to investigate if solvents had impacted the subsurface soils in the area of the existing dry cleaner equipment and outside the rear door of the facility.

Background

On April 25, 1996, Converse conducted a visit to the referenced facility. The Crown Cleaners facility is a one story building, attached to other businesses within a shopping center. The facility consisted of a central area where clothes were stored on hanging racks. The rear portion of the building included a dry cleaning area where the dry cleaning equipment and a steam boiler were located. The dry cleaning area appeared well kept. The floor around the dry cleaning machine was covered with tile. The floor under the dry cleaning equipment was exposed rough concrete.

Near the rear door we observed a room with a steam boiler, compressor, and hot water heater. Current permits for the use of the boiler and compressor were on display. An approximately 20 foot long, covered roll-off storage shed was located outside the rear of the business. The shed is reportedly used for general storage of equipment and supplies.

Converse met with Mr. Greg Brown (current owner and operator), to discuss the operations and general history of the Crown Cleaners facility. Mr. Brown explained that he has been the owner/operator of the facility since October 1994 (approximately 19 months). Mr. Brown has used the current solvent dry cleaning machine since he has owned the business. The solvent used at this facility is tetrachloroethene (PCE), in a dry to dry process.

Dry Cleaning Equipment and Solvent Storage

Mr. Brown said that the existing dry cleaning equipment was on-site when he purchased the business. Labels on the equipment infer the equipment may have been manufactured and/or installed around October 1990. Mr. Brown said that the dry cleaning business had been at this location for approximately 8 years prior to October 1994 when he purchased the business. The prior owner was reportedly Mr. Jack Enlow, who operated several other dry cleaning business in the County. Converse could not specifically identify when the existing equipment was installed or what equipment may have been at the property prior to the current equipment.

According to Mr. Brown, the current dry cleaning machine has three solvent tanks that each hold approximately 20 gallons of PCE. Currently, there is no other bulk storage of new PCE at the property other than the machine. When the PCE volume in the machine runs low, Mr. Brown requests a refill from his supplier. Waste solvent and filters are currently stored in drums supplied by Safety Kleen. The waste solvent is stored inside the business. Spent filters from the

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dry cleaning equipment are stored in steel drums in the storage shed outside of the rear of the business. All of the Safety Kleen steel drums observed at the site were in good condition.

Mr. Brown stated that he has not experienced spills or releases of PCE from the machine or the stored spent solvent.

Permits, Manifests, and Inspections

Converse reviewed the current annual SCAQMD permit for the operation of a dry cleaning business (permit No. D87457, expires November 16, 1996). According to Mr. Brown, SCAQMD has not issued any violations for the Crown Cleaners site.

Mr. Brown produced records documenting that spent solvent and filters had been removed from the property under manifest (including a site specific EPA identification number) since October 1994 (the past 18 months). The records revealed that Safety Kleen has transported and disposed of waste materials generated at this site. Mr. Brown stated that he manifests spent solvent and/or used filters from the property on a monthly basis.

Mr. Brown stated that he has not received any violations for the facility.

Converse reviewed an Orange County Health Care Agency (OCHCA) inspection report, dated June 14, 1995. Four compliance issues were indicated on the report: 1) waste solvent drums were not sealed, 2) residual solvent was noticed in the plastic buckets used to transfer waste solvent from the dry cleaning equipment to the storage drums, 3) need to keep drums inside the business, and 4) manifests were not readily available for review. Mr. Brown stated he corrected the compliance issues by: 1) sealing the waste solvent drums (except when filling), 2) draining the plastic buckets were more completely into the waste solvent storage drums, 3) storing the empty solvent storage drums either inside the business or in a roll-off storage shed located behind the business, and 4) he sent copies of all 1995 manifests to OCHCA, as requested. According to Mr. Brown, the partially filled or full spent solvent drums were always kept near the dry cleaner equipment

Converse asked Mr. Brown if any other records or information concerning the business practices of the prior owner were available. Mr. Brown produced a box of records, apparently kept by the prior owner (Mr. Jack Enlow). Converse reviewed the available records, including OCHCA inspection reports and manifest documents. No violations were noted from the OCHCA inspection reports dated January 1989, March 1990, March 1991, October 1992, and October 1993. No OCHCA inspection reports were reviewed for inspections that may have occurred during 1994. Manifests and invoices for waste solvent and/or spent filters that had been removed from the business dating back to March 1989 were also reviewed.

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Field Investigation Work

Subsequent to our reconnaissance and record review, on May 7, 1996, Converse performed the following services:

- Conducted soil sampling activities at three (3) locations at the existing dry cleaner facility. Two locations (HA-1 and HA-2) were adjacent to the existing dry cleaner equipment and one location (HA-3) was outside of the rear door (See Figure 1). Soil samples were collected at each location at depths of 2 and 5 feet below ground surface (bgs) and field screened with an organic vapor analyzer (OVA).

- Performed chemical analyses on three (3) selected soil samples (one from each location) in accordance with EPA Method 8010 for purgeable halocarbons (i.e. tetrachloroethene (PCE) and trichloroethene (TCE)). The analytical work was expedited, in accordance with your request. For analytical results, see Table 1.

Based on the soil sample head space OVA readings, Converse submitted the shallow soil samples to Associated Laboratories for chemical analysis. Based on the analytical results, Converse recommended that the deeper soil samples collected at each of the three locations also be analyzed for purgeable halocarbons.

The following table presents the results from the initial field investigation work:

Location	Field OVA Reading	PCE Concentration	TCE Concentration
HA-1 @ 2 feet bgs	3 ppm	1.03 ppm	0.12 ppm
HA-1 @ 5 feet bgs	3 ppm	0.08 ppm	0.02 ppm
HA-2 @ 2 feet bgs	25 ppm	8.90 ppm	0.18 ppm
HA-2 @ 5 feet bgs	3 ppm	0.40 ppm	0.07 ppm
HA-3 @ 2 feet bgs	2 ppm	0.40 ppm	nondetect
HA-3 @ 5 feet bgs	2 ppm	nondetect	nondetect

PCE and TCE were detected in the subsurface soils near the existing dry cleaner equipment and only PCE was detected outside the rear door of the facility. Generally, the concentrations of the detected compounds (PCE/TCE) decreased with depth. Based on the analytical findings, Converse recommended that a more extensive investigation program be developed and implemented to investigate the lateral and vertical extent of soil contamination.

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On May 22 and 23, 1996, Converse performed the following additional services:

- Conducted soil sampling activities at nine (9) locations at the existing dry cleaner facility. Six locations (HA-4 through HA-8, and HA-12) were located near the existing dry cleaner equipment, two (HA-10 and HA-11) were located outside of the rear door, and one (HA-9) was located in the boiler room. For all hand auger locations, see Figure 1. Soil samples were collected within the building at depths of 2, 5, 7, and 9 feet bgs and field screened with and OVA. Soil samples were collected outside the rear door of the building, at depths of 2, 5, and 7 feet bgs and field screened with an OVA.

- Submitted thirty-three (33) soil samples for chemical analysis in accordance with EPA Method 8010 for purgeable halocarbons (i.e. tetrachloroethene (PCE) and trichloroethene (TCE)). For analytical results, see Table 1.

- Performed permeability testing (ASTM D 5084-90) on three soil samples at locations HA-6 (5 feet bgs), HA-7 (2.5 feet bgs), and HA-11 (7.5 feet bgs).

Summary of Findings

Generally, the subsurface soils encountered consisted of a low permeability silty clay from below the concrete floor to a depth of approximately 5-6 feet bgs. The permeability results for the three samples tested (HA-6; 5 feet bgs, HA-7; 2.5 feet bgs, and HA-11; 7.5 feet bgs) ranged between 1.2×10^{-7} to 9.1×10^{-8} cm/sec. For permeability test results, see Table 2.

Below the silty clay, a silty sand was encountered between approximately 6 and 10 feet bgs. Groundwater was encountered a depth of approximately 10 feet bgs at hand auger location HA-8. Converse was unable to collect a water sample from location HA-8. Converse did not advance any of the other sampling locations below 9.5 feet bgs, therefore no other groundwater sampling was attempted.

Tetrachloroethene (PCE) and trichloroethene (TCE) were detected in the subsurface soils near the existing dry cleaner equipment, the boiler room, and outside the rear door of the facility. The concentrations of the detected compounds (PCE/TCE) were highest at shallower depths (2 feet bgs) and generally decreased with depth. However, soil sample HA-4 at a depth of 10-10.5 feet bgs, in the capillary fringe above the groundwater, revealed 24 parts per billion (ppb). For analytical results, see Table 1.

The highest concentration of solvents detected during this investigation work was reported at location HA-2 (8.9 ppm PCE at 2.5 feet bgs). The highest concentration of PCE/TCE reported from soil samples collected and analyzed from below 5 feet bgs was 0.27 ppm PCE (HA-5 at 9 feet bgs). For analytical reports for all soil samples analyzed, see Appendix A.

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Conclusions

The results of the soil sampling and analysis program indicate a release of dry cleaner solvents (PCE/TCE) has occurred in the area of the existing dry cleaner equipment. The release has impacted an area estimated to be at least 16 feet wide and 30 feet long, centered below the existing dry cleaner equipment. Although every soil sample collected and analyzed from a depth of 2 feet bgs revealed detectable PCE, the concentrations of PCE/TCE decrease with distance from the existing dry cleaner equipment.

- Based on the interview with Mr. Brown (current tenant) and observations noted during the site walk, it is our opinion that handling and disposal of chemicals by the current occupant was typical of dry cleaning operations. Although we saw no evidence of spills, and current practices appear appropriate for the operation, Converse is unaware how prior owners may have operated the dry cleaner business and what dry cleaner equipment they may have used.
- The concentration of PCE and TCE reported at depths of 7 and 9 feet bgs reveal a smaller impacted area (approximately 16 feet by 12 feet), centered below the existing dry cleaner equipment.
- The date of release and the responsible party for the release could not be determined.
- The potential impact to groundwater from the released solvents has not been determined, however a detection of PCE was noted in the capillary fringe.

Recommendations

Based on the analytical results, Converse recommends that this Summary Report be submitted the Orange County Health Care Agency (County) and the Santa Ana Regional Water Quality Control Board (Board) for their review.

In order to minimize the release of additional dry cleaner solvents into the subsurface soils, Converse recommends that the floor under and around the existing dry cleaning equipment be inspected for cracks and sealed. In addition, a pan should be installed under the existing dry cleaning equipment to contain spilled solvents.

Converse will request that the County evaluate the analytical results in accordance with their simplified vapor diffusion model to identify if the levels of PCE/TCE create a public health excess lifetime cancer risk (ELCR) greater than the acceptable 1×10^{-6} level. If the model results are favorable, the County will likely refer this case to the Board. If the model results are not favorable, the County will request that a Corrective Action Plan be developed to mitigate the impacted soil that presents a public health excess lifetime cancer risk

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The Santa Ana Regional Water Quality Control Board (Board) oversees cases where an unauthorized release of chemicals has, or has the potential to, impact groundwater. After the Board has reviewed this report, they will determine additional investigation work, if any, which will be required to investigate the impact to the groundwater from the unauthorized release of solvents from this site.

Warranty and Limitations

The scope of work presented herein does not constitute a complete Phase I site assessment (ASTM 1527-94, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process). The findings presented herein are based on our evaluation of currently available data and were prepared in accordance with generally accepted environmental principles common to the local area in which we practice. We make no other warranty, either expressed or implied.

Converse is not responsible for the accuracy of the information provided by others. This report should not be regarded as a guarantee that no subsurface contamination is present beyond what has been disclosed. There may be subsurface conditions that cannot be reasonable predicted with the services performed to date.

We trust that this report meets your current needs. If you have any questions or comments relative to this report, please contact the undersigned at (714) 453-2880.

Sincerely,

CONVERSE ENVIRONMENTAL WEST

REGISTERED GEOLOGIST
HENRY B. AMES
No. 6304
Exp. 9/97
STATE OF CALIFORNIA

Henry B. Ames, R.G. 6304
Senior Geologist

Thomas J. Scheil, R.G.E.
Vice President

hba/jp/tjs

Dist: 3/Addressee

Encl: Table 1 - Laboratory Results of Soil Samples
Table 2 - Summary of Permeability Test Results
Figure 1 - Site Plan
Appendix A - Analytical Reports

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TABLE 1

Laboratory Results of Soil Samples

Crown Cleaners
18583 Brookhurst Street
Fountain Valley, California
(Converse Project No. 96-42318-01)

EPA Laboratory Method 8010 - Purgeable Halocarbons
Results in Parts Per Million (ppm)

Sample Depth (feet)	Soil Boring HA-1		Soil Boring HA-5		Soil Boring HA-2		Soil Boring HA-8		Soil Boring HA-3		Soil Boring HA-4	
	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE
2-2.5'	1.03	0.12	2.2*	0.14*	8.9	0.18	1.4	0.14	0.4	ND	1.1	0.18
5-5.5'	0.08	0.02	NT	NT	0.42	0.07	NT	NT	ND	ND	0.42	0.05
7-7.5'	--	--	0.064	ND	--	--	0.03	ND	--	--	0.027	ND
9-9.5'	--	--	0.27	ND	--	--	0.14	ND	--	--	0.057	ND
10-10.5'	--	--	--	--	--	--	--	--	--	--	0.024	ND
Detection Limits	0.01		0.01		0.01		0.01		0.01		0.01	
Date Sampled	05/07/96		05/22/96		05/07/96		05/22/96		05/07/96		05/22/96	

LEGEND:
PCE = Tetrachloroethene
TCE = Trichloroethene
parts per million = milligrams per kilogram (mg/kg)
ND = Not Detected above laboratory method detection limits
NT = Collected soil sample not analyzed
-- = No Sample Collected
Note - All other target compounds were not detected. See laboratory analytical report.
* = Soil sample HA-5 collected at 2-2.5' also contained 0.46 ppm of cis-1,2-Dichloroethene and 0.2 ppm of Acetone
** = Soil sample collected at indicated depth
Note: HA-5 boring location is a continuation of boring HA-1
HA-8 boring location is a continuation of boring HA-2

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TABLE 1
Laboratory Results of Soil Samples
Crown Cleaners
18583 Brookhurst Street
Fountain Valley, California
(Converse Project No. 96-42318-01)

EPA Laboratory Method 8010 - Purgeable Halocarbons
Results in Parts Per Million (ppm)

Sample Depth (feet)	Soil Boring HA-6		Soil Boring HA-7		Soil Boring HA-9		Soil Boring HA-10		Soil Boring HA-11		Soil Boring HA-12	
	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE
2-2.5'	0.76	0.13	1.1	0.13	1.2	0.64	0.07	0.01	0.04	ND	1.0	ND
			(2.5-3')**									
5-5.5'	0.29	0.03	0.48	0.03	0.05	0.03	0.01	ND	ND	ND	0.70	0.15
	(5.5-6')**											
7-7.5'	0.10	ND	0.07	ND	ND	ND	ND	ND	0.01	ND	ND	ND
									(7.5-8')**			
9-9.5'	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
					(8.5-9')**							
10-10.5'	--	--	--	--	--	--	--	--	--	--	--	--
Detection Limits	0.01		0.01		0.01		0.01		0.01		0.01	
Date Sampled	05/22/96		05/22/96		05/22/96		05/22/96		05/22/96		05/23/96	

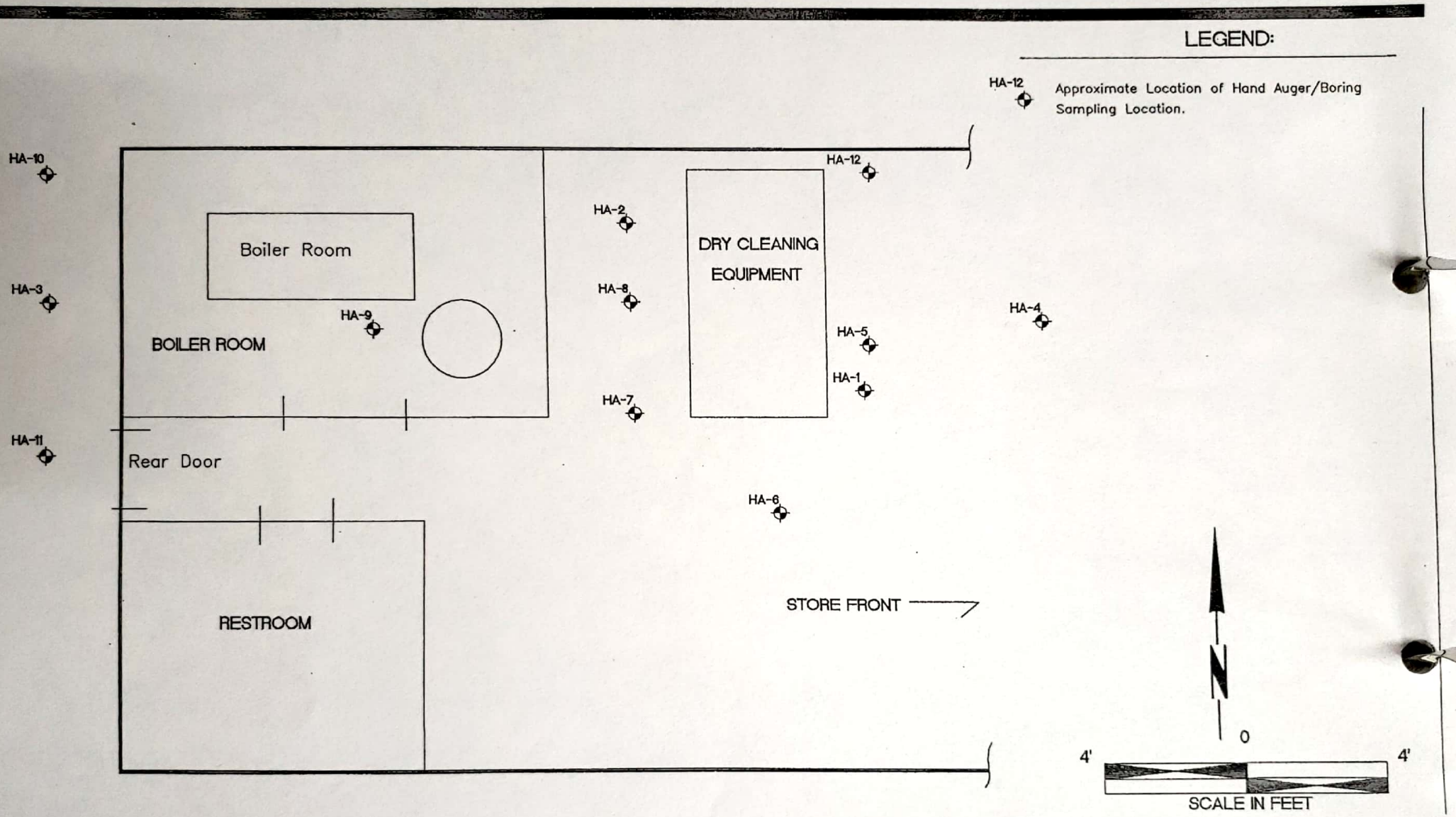
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Note - All other target compounds were not detected. See laboratory analytical report.
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o f cis-1,2-Dichloroethene and 0.2 ppm of Acetone
** = Soil sample collected at indicated depth
Note: HA-5 boring location is a continuation of boring HA-1
HA-8 boring location is a continuation of boring HA-2

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Table No. 2. Summary of Permeability Test Results (Job No. 96-42318-03)

Sample ID/Depth.	Soil Description	Undisturbed Dry Density (pcf)	Initial/Final Water Content (%)	Permeability (cm/sec)
HA-6/3-5.5	Silty Clay (CL), Black	103	18.9 / 23.9	2.2x10-7
HA-7/2-2.5	Silty Clay (CL), Black	103	22.3 / 25.0	1.2x10-7
HA-11/7-7.5	Silty Clay (CL), Black	101	20.6 / 25.2	$9.1X10^{-8}$

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SITE PLAN

CROWN CLEANERS
18583 Brookhurst Street
Fountain Valley, California
For: Diversified Shopping Centers

Converse Consultants Orange County

Scale	AS SHOWN
Date	5-28-96
Prepared By	SSM
Checked By	HBA
Approved By	HBA
Project No.	96-42318-03
Figure No.	1

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Sabrina Gonzalez

From: WB-RB8-FileReview8 <FileReview8@waterboards.ca.gov>
Sent: Tuesday, June 18, 2019 8:35 AM
To: Sabrina Gonzalez
Subject: RE: Public Records Request

Good morning,

After careful review of our records, we show we have no files for the following site:
9790 Finch Avenue, Fountain Valley, CA

If we can be of further assistance, please do not hesitate to contact us again.

Thank you,
File Review Desk
3737 Main St. Suite 500
Riverside, CA 92501

From: Sabrina Gonzalez <sgonzalez@leightongroup.com>
Sent: Wednesday, June 12, 2019 4:43 PM
To: WB-RB8-FileReview8 <FileReview8@waterboards.ca.gov>
Subject: Public Records Request

Good afternoon,

Leighton and Associates, Inc. is requesting information for the following address:

- 9790 Finch Avenue, Fountain Valley, CA

We are requesting any information concerning hazardous waste/materials, underground storage tanks, leaking underground storage tanks cleanup, inspections, violations, or any other environmental sensitive spills, responses or concerns.

Thank you for your assistance.

Sabrina Gonzalez
Staff Geologist
17781 Cowan
Irvine, Ca 92614
Cell – 949.614.9948
Office – 949.681.4293
Fax – 949.250.1114

Leighton
Solutions You Can Build On

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COUNTY OF ORANGE
PUBLIC HEALTH SERVICES
HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH

OCHCA CASE # 13IC008

RO # 3597

CASE ACTIVITY LOG

COMPANY NAME/DBA: CROWN CLEANERS

ADDRESS: 18583 Brookhurst St.

CITY: Fountain Valley STATE: CA ZIP CODE: 92708

CONTACT: Laura Tanaka Office Phone: _____ Fax: _____

Cell Phone: _____ E-mail: _____

DATE	STAFF	ACTIVITIES
4/3/2013	L. Lodigneza	Opened case file; prepared RAA Notification/emailed to DTSC; prepared RAP letter.
4/8	Lodigneza	Reviewed Conweb's Ltd P.I. TSR report/M.n. 8/13. Prepared letter concurring w/ proposed addl site characterization
5/23/2013	Lodigneza	Received letter fr. Conweb (on behalf of Dorothea Gehber) requesting withdrawal from V.C.A. agreement. Case Termination protocol - case terminated - no certification.

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH SERVICES
ENVIRONMENTAL HEALTH

Excellence
Integrity
Service

RECEIVED HCA
MAR 29 2013
ENVIRONMENTAL HLTH

MARK REFOWITZ
DIRECTOR

DAVID M. SOULELES, MPH
DEPUTY AGENCY DIRECTOR

RICHARD SANCHEZ, REHS, MPH
DIRECTOR
ENVIRONMENTAL HEALTH

MAILING ADDRESS:
1241 E. DYER ROAD, STE 120
SANTA ANA, CA 92705-5611

TELEPHONE: (714) 433-6000
FAX: (714) 754-1732
E-MAIL: ehealth@ochca.com

OCHCA Case# 13IE008 PO 3597

HAZARDOUS MATERIALS MITIGATION SECTION

REQUEST FOR REMEDIAL ACTION SUPERVISION

A. Site Name CROWN CLEANERS

Site Address 18583 (Street) BROOKHURST STREET, (Suite) FOUNTAIN VALLEY (City) 92708 (Zip Code)

Site Owner DONAHUE SCHRIBER REALTY GROUP Telephone (714) 545-1400

Site Owner's Mailing Address 200 E. BAKER ST #100 (Street), COSTA MESA (Suite), CA (City) 92626 (Zip Code)

B. Person or Entity Responsible for Cleanup DONAHUE SCHRIBER REALTY GROUP

Mailing Address 200 E. BAKER STREET (Street) #100 (Suite), COSTA MESA (City), CA 92626 (Zip Code)

Contact Person Michael Osborne Telephone (714) 966-6475

C. Application Submitted by:

Name of Company or Person: CONVERSE CONSULTANTS

Mailing Address 185 E. PALLARINO AVE (Street) #B (Suite), COSTA MESA (City), CA 92626 (Zip Code)

Contact Person LAURA TANAKA Telephone (714) 444-9660 EXT. 104

I have read the remedial action agreement conditions listed on page 2 of this application. As provided in Section 101480(b), Article 5, Chapter 4, Division 101 of the California Health and Safety Code, I request that Orange County Health Care Agency, Environmental Health provide remedial action supervision at the site named in Section A above. Where not the responsible party, I have been authorized to act on behalf of the responsible party. I understand that charges payable by the responsible party or the authorized representative will be incurred for the time spent by Orange County Health Care Agency's staff for cleanup oversight activities.

Scott Lawrence — Name of Responsible Party/Authorized Representative (Please Print)

Signature of Responsible Party/Authorized Representative — 03.26.13 Date

Send billing invoices to: Name MICHAEL OSBORNE

Address 200 E. BAKER STREET (Street) #100 (Suite), COSTA MESA (City), CA 92626 (Zip Code)

Site Information: CROWN CLEANERS IS LOCATED IN THE CALLENS CORNER SHOPPING CENTER. CURRENT MACHINE ON-SITE IS A HYDROCARBON BASED DETERGENT.

- Is this site any of the following: listed on the Department of Toxic Substances Control's (DTSC) Calsites list; the subject of a cleanup order or enforceable agreement issued by DTSC; the subject of a remedial action initiated by DTSC; the subject of a corrective action order issued by DTSC; or a facility subject to DTSC hazardous waste treatment facility tiered permitting requirements? yes ☐ no ☒ unknown ☐
- Is this site listed on a Regional Water Quality Control Board's (RWQCB) Leaking Underground Storage Tank Information System (LUSTIS) or Spills, Leaks, Investigation and Cleanup (SLIC) list or the subject of a cleanup and abatement order issued by a RWQCB? yes ☐ no ☒ unknown ☐
- What is the property's current land use zoning designation? C-1, LOCAL BUSINESS ZONE

Agreement Conditions:

- The issuance of a remedial action certification of completion is dependent on adequate completion of acceptable site assessment and remedial activities and attainment of cleanup goals established by Orange County Health Care Agency, Environmental Health (OCHCA) or the appropriate RWQCB.
- Site testing, monitoring and analysis will be required, as necessary, to properly determine the nature and extent of the release. A site assessment plan that shows proposed soil and water sampling and analyses should be submitted to OCHCA for concurrence before implementation. Any remedial action plan should be approved by OCHCA before implementation and work performed must be shown to have been effective in mitigating the actual or potential adverse effects of the release. **OCHCA must be notified at least 48 hours in advance of any site verification of mitigation sampling activity.** Where a remedial action has not been effective, implementation of an alternate effective remedial action is expected.
- Remedial goals will be based on risk assessment considerations that reflect site-specific characteristics and the property's current land use zoning designation. If a land use change is planned or foreseen, OCHCA should be advised.
- OCHCA may, after giving adequate notice, withdraw in whole or part from the supervision of the remedial action should it determine: the responsible party is not in compliance with the remedial action agreement; available staff resources, technical expertise or technical capabilities are not available to adequately supervise the remedial action; the release of the waste that is the subject of the remedial action is of a sufficiently complex nature or may present such a significant potential hazard to human health or the environment that it should be referred to DTSC or a RWQCB; requested site assessment or remedal action plans have not been received in a timely manner; or implementation of approved plans has not occurred in a timely manner.
- Should OCHCA withdraw from the case, in whole or part, OCHCA may refer the case to DTSC or the RWQCB
- OCHCA may discuss this case with staff at DTSC or the RWQCB at any time in the review process.
- An hourly service fee at Environmental Health's current rate established per resolution of the Orange County Board of Supervisors for work performed by direct oversight staff will be charged. Billings are sent out quarterly and are due within 30 days of receipt of the invoice. A late payment fee of 25% is applicable.
- OCHCA reserves the right to send copies of all correspondence to the property owner and others as appropriate.
- The contact person named in Section C, page 1 will be the point of contact for the responsible party unless OCHCA is otherwise advised.
- Pursuant to California law, all information in the site's cleanup file may be public record subject to disclosure to any member of the public who requests it. If it is necessary to include confidential information in your communications with the County the County recommends that you clearly and prominently mark the information you believe falls into this category. The County will attempt to notify you if disclosure of such information is requested, in order to give you an opportunity to seek a court order prohibiting disclosure of such information. Due to the short statutory time period for the County's compliance with requests for public records, the County will be able to give you only a short period of time in which to seek a court order before the County will be required to disclose the requested information. Further, it is your responsibility to assert that information you believe is confidential should not be disclosed; the County will not make such a claim for you, but will obey a valid court order obtained by you prohibiting disclosure of such information.

Converse Consultants
Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

May 15, 2013

Mr. Luis Lodrigueza
Hazardous Waste Specialist
County of Orange Health Care Agency
Environmental Health Division
Hazardous Materials Mitigation Section
1241 East Dyer Road, Suite 120
Santa Ana, California 92705-5611

Subject: **Withdrawal of Remediation Action Supervision**
Crown Cleaners
18583 Brookhurst Street
Fountain Valley, California
OCHCA Case No. 131C008

Mr. Lodriqueza:

Converse Consultants (Converse) respectively is withdrawing from the Remediation Action Supervision program for the referenced site.

After further review of the prior assessment reports, the concentrations of tetrachloroethylene (PCE) and trichloroethylene (TCE) detected in the groundwater during Converse's sampling event in March 2013 appear to be of the same magnitude as when the original case received closure in May 2003 (OCHCA Case #961C031).

If you have any questions, please contact either Michael Van Fleet at (626) 930-1267 or Laura Tanaka at (714) 444-9660, Extension 104.

Sincerely,

CONVERSE CONSULTANTS

Michael Van Fleet, PG
Senior Geologist

Laura Tanaka
Principal Environmental Scientist

Dist.: 1/Addressee via Electronic Mail

cc: mosborne@dsrg.com

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH SERVICES
ENVIRONMENTAL HEALTH

MARK REFOWITZ
INTERIM DIRECTOR

DAVID M. SOULELES, MPH
DEPUTY AGENCY DIRECTOR

RICHARD SANCHEZ, REHS, MPH
DIRECTOR
ENVIRONMENTAL HEALTH

MAILING ADDRESS:
1241 E. DYER RD., #120
SANTA ANA, CA 92705-5611

TELEPHONE: (714) 433-6000
FAX: (714) 754-1732
E-MAIL: ehealth@ochca.com

Excellence
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April 4, 2013

Michael Osborne
Donahue Schriber Realty Group
200 E. Baker Street Suite 100
Costa Mesa, CCA 92626

Subject: **Limited Phase II Investigation Report**

Re: Crown Cleaners @ Callens Corner
18583 Brookhurst Street
Fountain Valley, CA 92708
OCHCA Case #13IC008

Dear Mr. Osborne:

Orange County Health Care Agency (OCHCA) Environmental Health has reviewed the subject report (March 8, 2013) submitted by Converse Consultants (Converse). OCHCA concurs with the recommendation of Converse to conduct additional investigation to further characterize the contamination at the site. It is expected that a work plan for such additional investigation will be submitted to OCHCA (electronic copy to Kamron Saremi of the Santa Ana Regional Water Quality Control Board, SARWQCB, ksaremi@waterboards.ca.gov) for review/approval.

If you have any questions regarding this matter, please contact the undersigned at (714) 433-6253 or LLodrigueza@ochca.com.

Sincerely,

Luis Lodrigueza
Hazardous Waste Specialist
Hazardous Materials Mitigation Section
Environmental Health Division

cc: Kamron Saremi, Santa Ana Regional Water Quality Control Board (electronic copy)
Laura Tanaka, Converse Consultants (electronic copy)

Lodrigueza, Luis

From: Mislang, Violeta@DTSC <Violeta.Mislang@dtsc.ca.gov>
Sent: Friday, April 05, 2013 3:19 PM
To: Lodrigueza, Luis
Subject: RE: SB 1248 Notification

Luis,

Orange County Health can oversee the proposed assessment remediation at 18583 Brookhurst Street, Fountain Valley, under SB 1248.

Thank you for the notification,

Violet

Violeta Mislang
Brownfields and Environmental Restoration Program
Department of Toxic Substances Control
5796 Corporate Avenue
Cypress, California 90241
(714) 484-5387
vmislang@dtsc.ca.gov

From: Lodrigueza, Luis [mailto:LLodrigueza@ochca.com]
Sent: Wednesday, April 03, 2013 7:38 AM
To: Mislang, Violeta@DTSC
Cc: Senga, Robert@DTSC
Subject: SB 1248 Notification

For your review.

Luis Lodrigueza
Hazardous Waste Specialist
OCHCA Environmental Health
Hazardous Materials Mitigation Section
(714) 433-6253

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH SERVICES
ENVIRONMENTAL HEALTH

MARK REFOWITZ
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DEPUTY AGENCY DIRECTOR

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FAX: (714) 754-1732
E-MAIL: ehealth@ochca.com

Excellence
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April 3, 2013

Michael Osborne
Donahue Schriber Realty Group
200 E. Baker Street Suite 100
Costa Mesa, CCA 92626

Subject: **Request for Remediation Action Supervision**

Re: Crown Cleaners
18583 Brookhurst Street
Fountain Valley, CA 92708
OCHCA Case #13IC008

Dear Mr. Osborne:

Orange County Health Care Agency (OCHCA) Environmental Health has received the request you submitted for remedial action supervision as provided for in the California Health and Safety Code (H&SC), Division 101, Chapter 4, Article 5, Section 101480 (b), at the above referenced site. This Agency agrees to provide remedial oversight in accordance with the conditions specified on page 2 of "Request for Remedial Action Supervision" unless the California Department of Toxic Substances Control or Regional Water Quality Control Board (RWQCB) objects to OCHCA's oversight of the project within 10 business days of receipt of notification.

Where a preliminary site assessment has not already been submitted, please submit a site assessment work plan for review and concurrence by HCA staff prior to implementation. This review will help ensure the planned site assessment work includes required information. The site assessment work plan should be designed to accomplish the identification of the lateral and vertical extent of soil contamination and the concentration of contaminants. The plan should include:

1. A site history that will serve as rationale for the selection of the locations of soil samples and soil borings and laboratory methods.
2. The proposed number and locations of soil samples and soil borings, and sampling methodology.
3. The proposed laboratory analysis and method.

After completion of site assessment, a report that outlines the findings of the site assessment and presents a proposed remedial action plan should be submitted to OCHCA staff for review and concurrence. A health and safety plan will be required where site remedial activities may pose a threat to public health. After the remedial action plan has been fully implemented, remediation completion will be determined by site sampling overseen by OCHCA staff. Upon the satisfactory completion of site assessment and

necessary soil remediation, this Agency will issue a letter of completion. Where the site assessment reveals a possible threat to groundwater resources, the appropriate RWQCB will be so notified. When the RWQCB requires soil remedial action you will be requested to submit remedial action plans to both Agencies for review and concurrence.

All required permits must be obtained prior to beginning exploratory borings and construction of wells. All borings and abandoned wells must be properly sealed. Wells should be secured to prevent unauthorized access. For further information regarding required well permits and well abandonment, please contact this Agency's Water Quality Section at (714) 433-6287 or (714) 433-6288. Drilling procedures, well design and construction must be accomplished in a manner that prevents the spread of contamination. Design and procedures should be developed by a registered professional (P.G., C.E.G., R.C.E., C.H.G., or equivalent) with expertise in subsurface investigations. Reports that include logs of soil borings or any findings or conclusions relating to subsurface information must be signed by a properly registered professional (P.G., C.E.G., C.H.G., or equivalent).

If any material removed from the site is a hazardous waste, send photocopies of the manifests, signed by the receiving facility, used to transport the material as verification of its proper transportation and disposal or treatment. Contaminated soil not meeting hazardous waste criteria should not be removed off site to other than a Class I hazardous waste landfill or permitted hazardous waste treatment facility without verification by this Agency and approval of the appropriate RWQCB.

Be advised that an owner of non-residential real property who knows, or has reasonable cause to believe, that any release of a hazardous substance has come to be located on or beneath that real property shall, prior to sale, lease, or rental of the real property, give written notice of that condition to each buyer, lessee, or renter of the real property (H&SC, Division 20, Chapter 6.8, Section 25359.7[a]). Also any lessee or renter of real property who knows or has reasonable cause to believe that any release of a hazardous substance has come or will come to be located on or beneath that real property shall, following its discovery, give written notice of that condition to the owner of the real property or the lessor (H&SC Division 20, Chapter 6.8, Section 25359.7[b]).

If you have any questions regarding this matter, please contact the undersigned at (714) 433-6253 or LLodrigueza@ochca.com.

Sincerely,

Luis Lodrigueza
Hazardous Waste Specialist
Hazardous Materials Mitigation Section
Environmental Health Division

cc: Ann Sturdivant, Santa Ana Regional Water Quality Control Board (electronic copy)
Kamron Saremi, Santa Ana Regional Water Quality Control Board (electronic copy)
Laura Tanaka, Converse Consultants (electronic copy)

Converse Consultants

Consulting Engineering and
Applied Sciences
185 East Paularino Avenue, Suite B
Costa Mesa, California 92626
Telephone: 714) 444-9660
Facsimile: (714) 444-9640

Transmittal

RECEIVED HCA
MAR 29 2013
ENVIRONMENTAL HLTH

Date: March 28, 2013

Project: Crown Cleaners, Fountain Valley
Converse Project No. 13-42-124-01

To: Mr. Luis Lodrigueza
Hazardous Waste Specialist
OCHCA Environmental Health
Hazardous Materials Mitigation Section
1241 East Dyer Street, Suite 120
Santa Ana, California 92705-5611

We are sending you the following:

☐	Regular Mail	☒	CA Overnight
☐	Express Mail	☐	Client Pickup
☐	Messenger	☐	Converse Deliver
☐	FedEx	☐	UPS

Quantity	Description
1	Hazardous Materials Mitigation Section, Request for Remedial Action Supervision
1	March 8, 2013, Limited Phase II Subsurface Investigation Report and File Review Callens Corner – Crown Cleaners 18583 Brookhurst Street Fountain Valley, Caliofrnia 92708 Converse Project No. 13-42-124-01

Remarks:

Luis,
Let me know if you need any additional information.

Copies To:

Sent By:

Laura Tanaka
Principal Environmental Scientist

Converse Consultants

Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

March 8, 2013

Mr. Kurt Stoffel, P.E.
Teachers Insurance and Annuity Association
730 Third Avenue, 4th Floor
New York, New York 10017

Subject: **LIMITED PHASE II SUBSURFACE INVESTIGATION REPORT & FILE REVIEW**
Callens Corner – Crown Cleaners
18583 Brookhurst Street
Fountain Valley, California 92708
Converse Project No. 13-42-124-01

Mr. Stoffel:

Converse Consultants (Converse) is pleased to submit the attached report that summarizes the activities and the results of the *Limited Phase II Subsurface Investigation Report and File Review* that was conducted at the referenced property.

We appreciate the opportunity to be of service. Should you have any questions or comments regarding this report, please contact either Laura Tanaka at (714) 444-9660, Extension 104 or Norman Eke at (626) 930-1260.

CONVERSE CONSULTANTS

Michael Van Fleet, PG
Senior Geologist

PROFESSIONAL GEOLOGIST
MICHAEL A. VAN FLEET
No. 7869
STATE OF CALIFORNIA

Laura Tanaka
Principal Environmental Scientist

Norman S. Eke
Managing Officer

Encl: Figure 1 – Site Location Map
Figure 2 – Boring Location Map
Table 1 – Soil Sample Analytical Results
Table 2 – Groundwater Sample Analytical Results
Appendix A – Boring Logs
Appendix B – Analytical Reports and Chain of Custody Documentation
Appendix C – File Review Documents

Introduction

Converse Consultants (Converse) appreciates the opportunity to present this *Limited Phase II Subsurface Investigation Report* for the property at 18583 Brookhurst Street in Fountain Valley, Orange County, California (Site), which is currently occupied by Crown Cleaners (Cleaners). See Figure 1 – Site Location Map, for the general location of the Site. The work in this report was performed in general accordance with the terms and conditions of our agreement for environmental services dated March 1, 2013 and scope of work presented in a proposal dated February 8, 2013 prepared by Property Solutions, Inc .

Background

The Cleaner is located within a single-story attached commercial building included in the Callens Corner shopping center located at the southwest corner of Brookhurst Street an Ellis Avenue. Other retail businesses are located to the north and south of the Site with parking areas to the east and west. The scope of work proposed by Property Solutions was based on the findings and recommendations from a Phase I Environmental Assessment (EA) report dated February 1, 2013, also by Property Solutions.

The EA report indicated Crown Cleaners had a release discovered in 1996. Tetrachloroethene (PCE) and trichloroethene (TCE) were reported to have impacted subsurface soils and groundwater. In 2002 additional investigation (soil and groundwater sampling) and remediation (removal of approximately 60 cubic yards of impacted soil) were performed under the oversight of Converse and No Further Action status was granted for the Site by the Orange County Health Care Agency (OCHCA) and the California Regional Water Quality Control Board in 2003. However, the Cleaners was reported to have continued to use PCE until at least May 2005.

Objective

The objective of the scope of services was to evaluate the subsurface soil and groundwater conditions beneath the Site for the potential presence of contamination from Volatile Organic Compounds (VOCs), including PCE and TCE, associated with the current and former dry cleaning operations.

Scope of Work

At the request of Teachers Insurance and Annuity Association (TIAA), and based on the proposal by Property Solutions dated February 8, 2013, Converse completed the following authorized scope of work, to achieve the above objective:

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- Prepared a Site specific Health and Safety Plan.
- Reviewed available files from the California State Resources Water Control Board (SRWCB), Regional Water Quality Control Board (RWQCB) GeoTracker website regarding offsite adjacent gas stations and provided a summary of pertinent information.
- Marked boring locations, and contacted Underground Service Alert.
- Obtained a permit from the City of Fountain Valley for the collection of groundwater samples.
- Conducted a geophysical survey in the vicinity of the proposed boring locations to clear for underground obstructions.
- Collected soil samples from three (3) locations; two (2) within the dry cleaning suite, and one (1) outside the rear door. Soil samples were collected at depths of approximately 2 feet, 5 feet and 10 feet below ground surface (bgs). All soil samples were screened in the field for VOCs with a photo ionization detector (PID).
- Groundwater samples were collected at a depth of approximately 11 feet below ground surface (bgs) in two of the boring locations. All soil and groundwater samples were submitted under chain-of–custody documentation to a State certified laboratory.
- A total of six soil samples and two groundwater samples were analyzed in accordance with Environmental Protection Agency (EPA) Method 8260B/5035A for VOCs.
- Prepared this Limited Phase II Subsurface Investigation Report.

Field Activities

On March 7, 2013, following the completion of a geophysical survey by Southwest Geophysics to clear for obstructions, Converse oversaw advancement of borings using dual-tube direct-push methods. Based on field observations, the original scope of work in the Property Solutions proposal was reduced from six (6) borings to five (5) borings due to the presence of equipment that restricted access.

A total of five (5) borings were attempted, but refusal was encountered at two (2) of the locations within the suite. The other three (3) borings (B1 through B3) were completed to depths of 10 or 15 feet bgs. Boring B1 was located outside the rear entrance of the Cleaners suite on asphalt pavement. Borings B2 and B3 were located inside the Cleaners suite, just southeast and south, respectively, of the Cleaners primary cleaning unit. Boring locations are depicted on the Figure 2 - Boring Location Map.

Three (3) soil samples were collected from each boring at approximately 2, 5 and 10 feet bgs. A total of nine (9) soil samples were collected. Soil samples were continuously collected during drilling using a 4-foot long Geoprobe sampler fitted with an

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inner acetate sleeve. After advancing the sampler, the sleeve containing soil was removed. The retrieved soils were inspected for lithologic conditions and signs of potential contamination. Descriptions of the soils encountered are provided on boring logs in Appendix A. A portion of the sleeves were cut at the appropriate sample intervals for laboratory analysis. Subsamples of each of the nine (9) soil samples were collected from the sleeves in accordance with EPA Method 5035A in laboratory-supplied VOA kits. The sample sleeves were then fitted with Teflon sheets and plastic end caps, and the sample containers were stored in a chilled container for delivery to a state-certified laboratory under chain of custody documentation.

Groundwater samples were collected at borings B1 and B2 after collection of the soil samples. With the Geoprobe sampling rods advanced to approximately 15-feet bgs, an approximate ¾-inch screened PVC pipe was placed inside the rods. The rods were then retracted up to 4 feet bgs exposing the PVC to the open borehole. Grab samples of groundwater were then collected from both borings within the screened PVC pipe using disposable bailers. Samples were transferred from the bailers into laboratory supplied VOA sample containers, and these containers were then sealed and placed in a chilled container for delivery to a state-certified laboratory. Groundwater was measured following sample collection using a metered water level sounder at approximately 11-feet bgs.

After completing soil and groundwater sample collection, the three drilled borings were backfilled using bentonite granules, which were hydrated in-place, and re-surfaced to match existing cover. Two (2) of the boreholes were located in areas were the floor is sealed with a vinyl chemical sealant. The sealant in these areas will later be re-sealed to match the existing surface by an outside vendor.

All Geoprobe sampling equipment were decontaminated between uses to limit the potential for cross contamination between borings. The non-disposable downhole sampling equipment was washed with water and non-phosphate detergent, rinsed with tap water and final rinsed with distilled water.

PID readings from all nine (9) soil sample were less than the 7.1 part per million, which is likely attributed to moisture. No field-evident odors or discoloration was observed in the soil from the three (3) borings. Boring logs describing the encountered subsurface soils are included in Appendix A.

Upon completion of sample collection, all samples were placed in a chilled cooler and transported to a California certified environmental laboratory under chain of custody documentation. However; upon receipt of the samples, the laboratory contacted Converse and indicated the groundwater samples had been compromised. Based on this information, Converse returned to the Site on March 5, 2013 to re-collect groundwater samples. Converse oversaw the advancement of two (2) borings to 15 feet bgs adjacent to locations B1 and B2, and collected groundwater grab samples using the same methods described above.

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Sample Analytical Results

All of the soil and groundwater samples were submitted to American Environmental Testing Laboratory, Inc. (AETL), a state-certified laboratory. Six (6) of the nine (9) collected soil samples, and both groundwater samples, were analyzed for VOCs using EPA Method 8260B/5035A.

Soil samples not analyzed have been archived by AETL. The soil and groundwater sample analytical results are summarized on Tables 1 and 2, and the complete laboratory analytical reports and the chain of custody documentation are provided in Appendix B.

Soil Samples

The analytical results for the soil samples indicate the following:

- Benzene, cis-1,2-dichloroethene (DCE), trans-1,3-DCE, PCE and TCE were detected in the samples analyzed at maximum concentrations of 1.16, 50.3, 5.17, 5,750, and 1,000 micrograms per kilogram (µg/kg), respectively.
- All other VOCs were Not Detected (ND) at or above PQLs, which ranged from range from 10.0 to 50 µg/kg in the samples analyzed.

Groundwater Samples

The analytical results for the groundwater samples indicate the following:

- 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE and TCE were detected in the samples analyzed at maximum concentrations of 2.04, 441, 18.6, 41.5, and 467 micrograms per Liter (µg/L), respectively.
- All other VOCs were ND at or above PQLs, which ranged from that range from 10.0 to 50 µg/L in the samples analyzed.

Discussion

The U.S. EPA Region 9 has established Regional Screening Levels (RSLs), which are generic screening values, not de facto cleanup standards, for selected analytes in soil, air, tap water and groundwater. RSLs have been established for both Residential and Industrial/Commercial Soil and Air (RSL-Rs and RSL-Is, respectively).

Primary standards for drinking water are regulated by the California Code of Regulations using Maximum Contaminant Levels (MCLs) for organic and inorganic chemicals. The following sections discuss the findings of this assessment relative to these standards.

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Soil Samples

One (1) soil sample from boring B3 at 5-feet bgs was reported with a TCE concentration of 1,000 µg/kg. This concentration exceeds the U.S. EPA RSL-R of 910 µg/kg, but does not exceed the U.S. EPA RSL-I of 6,400 µg/kg. None of the other reported VOC concentrations exceed either of their respective U.S. EPA RSL values.

Groundwater Samples

The groundwater sample collected from boring B1 was reported with cis-1,2-DCE, trans-1,2-DCE, PCE and TCE concentrations of 441, 18.6, 41.5 and 467 µg/L, respectively, which exceeds the California MCLs of 6, 10, 5, and 5 µg/L.

The groundwater sample collected from boring B2 was reported with cis-1,2-DCE, PCE, and TCE concentrations of 22.9, 42.2 and 40.8 µg/L, respectively, which also exceeds the California MCLs.

The remaining VOCs in both groundwater samples were either ND above the PQLs, or were reported with concentrations below the California MCLs.

File Review – RWQCB GeoTracker Database

Current information pertaining to the following two (2) sites, located adjacent to the subject property on which the Cleaners is located, was reviewed on the RWQCB's GeoTracker website (geotracker.waterboards.ca.gov):

- Arco #1912, 18480 Brookhurst Street, Fountain Valley, CA
- Thrifty Oil #383, 18520 Brookhurst Street, Fountain Valley, CA

A copy of the document list and the most current monitoring report for each site is provided in Appendix C. A summary of findings for each site is provided below.

- **Arco #1912, 18480 Brookhurst Street**
  The Arco station is located at the northwest corner of Brookhurst Street and Ellis Avenue. This has been open since 1985 and has been an ongoing remediation case since 2002. Twenty-four (24) monitoring wells are located at this site.

  According to the *Fourth Quarter 2012 Quarterly Groundwater Monitoring and Remediation Report* prepared by Stratus Environmental, Inc. on November 28, 2012, 23 of the 24 groundwater monitor wells were sampled. According to Stratus, the analytical results were consistent with the recent quarterly results with the maximum concentrations detected in the following wells:

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Chemical	Max. Conc. (µg/L)	Well Number and Comments
Gasoline Range Organics	990	Well B-1; on-site well
Benzene	53	Well B-6; on-site well
MTBE	90	Well B-25; off-site well located in Ellis Ave.
TBA	21,000	Well B-24; on-site well Well B-25; off-site well located in Ellis Ave. TBA detected in 13 wells and concentrations within historical range detected.

Groundwater is located approximately 9.5-feet to 11-feet bgs. The direction of groundwater is in a southerly direction. The lower water-bearing zone, which is located approximately 60 to 65-feet bgs, had no detectable concentrations of dissolved hydrocarbons or fuel oxygenates for the 28th consecutive monitoring event.

Noted in the RWQCB's summary is that the contamination plume is not stable or decreasing and is therefore an impediment to granting closure.

- **Thrifty Oil #383, 18520 Brookhurst Street**
  The Thrifty Oil site is located at the southeast corner of Brookhurst Street and Ellis Avenue. This case has been open since 1987 and has been an ongoing remediation case since 2000. Fourteen (14) monitoring wells are located at this site.

  According to the *Semi-annual Status Report – Second Half 2012, and Request for Low-Risk Case Closure Report* prepared by the Thrifty Oil Company on October 11, 2012, there has been a significant decrease in the maximum TBA concentrations (6.100 µ/L in the first half of 2012 to 3,400 µ/L in the second half). It was the opinion of the Thrifty Oil that the contamination plume was stable and that the remaining concentrations beneath the site would attenuate naturally. Based on this, Thrifty Oil requested closure.

  According to the site summary sheet, there are 17 groundwater monitoring wells. Two (2) of these wells are located offsite (one in Brookhurst Street and one to the south of the site). The depth to groundwater was recorded at 7.95 to 9.47 feet below the top of casing for the shallow groundwater zone, and 10.8 to 12.12 feet in the deeper zone. The direction of groundwater flow for the shallow zone is towards the west-northwest, and towards the southwest for the deeper zone.

  The maximum concentrations detected were as follows:

Chemical	Max. Conc. (µg/L)	Well Number and Comments
TPH as gasoline	125	Well BW-3; on-site well
Benzene	1.3	Well HVE-2; on-site well
MTBE	5.6	Well HVE-1; on-site well

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Chemical	Max. Conc. (µg/L)	Well Number and Comments
TBA	3,400	Well BW-4; on-site well

No detected concentrations were detected in the wells utilized to monitor the deeper groundwater zone.

Noted in the RWQCB's summary is that the contamination plume is not stable or decreasing, and that there was significant rebound in concentrations after remediation and therefore an impediment to granting closure.

Based on our review of the current documents, it does not appear that the two (2) adjacent gas stations have impacted Callens Corner. In addition, the potential for environmental concern from these sites is low due to the involvement and oversight of a regulatory agency; monitoring of the contamination is currently on-going, and the identification of responsible parties.

Conclusions

Based on our findings during our assessment activities, Converse concludes the following:

- One (1) soil sample from boring B3 at 5-feet bgs was reported with a TCE concentration that exceeds the U.S. EPA RSL-R but is less than U.S. EPA RSL-I.
- The remaining soil samples analyzed were either ND above the PQLs or were reported with concentrations below either of their respective U.S. EPA RSLs.
- The reported concentrations of cis-1,2-DCE, PCE and TCE in both groundwater samples exceed the respective California MCLs. Additionally, the trans-1,2-DCE concentration in the sample from location B1 exceeds the California MCL.
- The remaining VOCs in both groundwater samples were either ND above the PQLs or reported with concentrations below the California MCLs.
- The two (2) adjacent gas stations do not appear to have impacted Callens Corner.

Recommendations

Based on the above information, further assessment, including soil, soil gas and groundwater sampling, to characterize the source and extent of PCE, TCE and DCE beneath at the Site.

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- Complete and submit a Workplan for additional characterization to the appropriate lead agency (Orange County Health Care Agency and/or Santa Ana Regional Water Quality Control Board) for input and approval.
- Upon approval, execute the activities outlined Workplan and submit a report outlining the findings, conclusions and recommendations.
- Once the extent of the impacts to the soil and groundwater have been characterized, appropriate remedial activities may need to be conducted to reduce chemical concentrations if the release is determined to have been from an onsite source.

Reliance

This letter report is for the sole benefit and exclusive use of Teachers Insurance and Annuity Association and Donahue Schriber Realty Group, LP in accordance with the terms and conditions that are presented in our proposal under which these services have been provided. The preparation of this report has been in accordance with generally accepted environmental practices. No other warranty, either express or implied, is made. This letter report should not be regarded as a guarantee that no further contamination beyond that which could be detected within the scope of this assessment is present at the Site.

This report should not be regarded as a guarantee that no further contamination, beyond that which could be detected within the scope of this assessment, is present at the Property. Converse makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. It is possible that information exists beyond the scope of this assessment. It is not possible to absolutely confirm that no hazardous materials and/or substances exist at the Property. If none are identified as part of a limited scope of work, such a conclusion should not be construed as a guaranteed absence of such materials, but merely the results of the evaluation of the property at the time of the assessment. Also, events may occur after the Property visit, which may result in contamination of the Property. Additional information, which was not found or available to Converse at the time of report preparation, may result in a modification of the conclusions and recommendations presented.

Any reliance on this report by Third Parties shall be at the Third Party's sole risk. Should Opus Bank wish to identify any additional relying parties not previously identified, a completed Application of Authorization to Use (see following page) must be submitted to Converse Consultants.

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Converse Consultants

Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

Application for Authorization to Use

TO: Converse Consultants
185 East Paularino Avenue, Suite B
Costa Mesa, California 92626

Project Title & Date: _____

Project Address: _____

FROM: (Please identify name & address of person/entity applying for permission to use the referenced report.)

_____

_____

_____

Applicant _____ hereby applies for permission to use the referenced report in order to:

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Applicant wishes or needs to use the referenced report because:

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Applicant also understands and agrees that the referenced document is a copyrighted document and shall remain the sole property of Converse Consultants. Unauthorized use or copying of the report is strictly prohibited without the express written permission of Converse Consultants. *Applicant* understands and agrees that Converse Consultants may withhold such permission at its sole discretion, or grant such permission upon agreement to Terms and Conditions, such as the payment of a re-use fee, amongst others.

Applicant Signature: _____

Applicant Name (print): _____

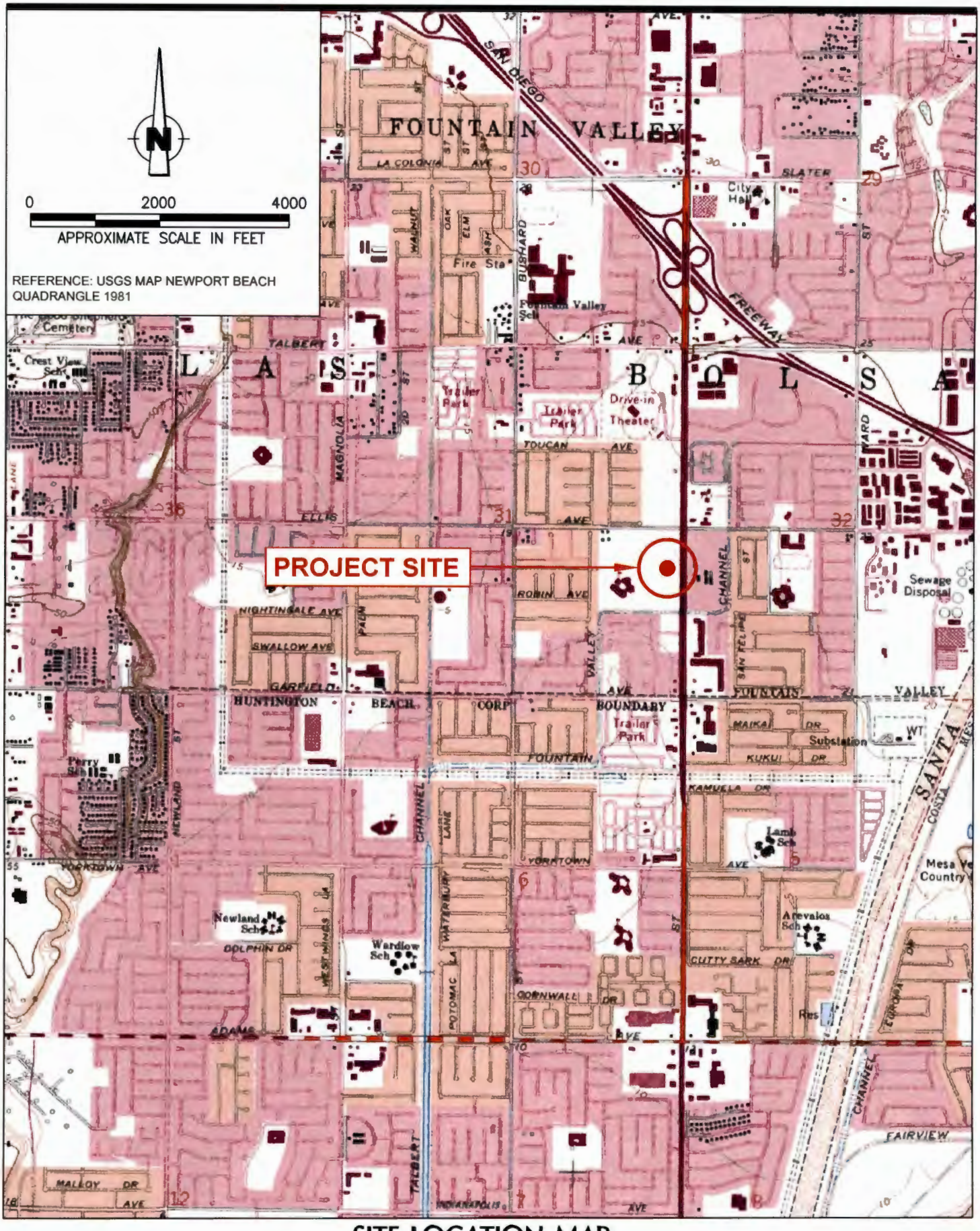
Title: _____

Date: _____

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Figures & Tables

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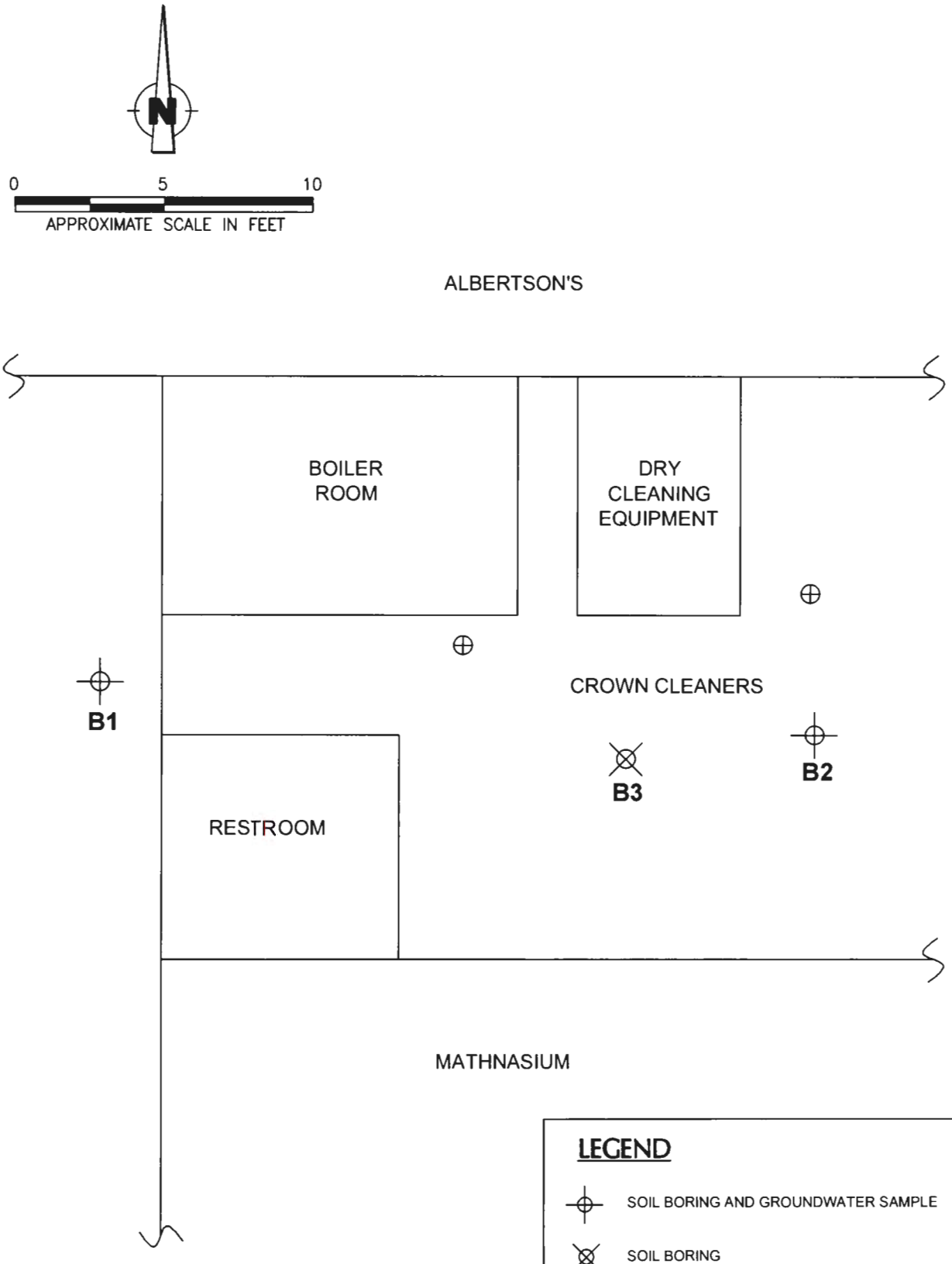
SITE LOCATION MAP

Converse Consultants

CROWN CLEANERS
18583 BROOKHURST AVE.
FOUNTAIN VALLEY, CA

Project No. 13-42-124-01

Figure No. 1



BORING LOCATION MAP

Converse Consultants

CROWN CLEANERS
18583 BROOKHURST AVE.
FOUNTAIN VALLEY, CA

Project No. 13-42-124-01

Figure No. 2

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Callens Corner - Crown Cleaners
Fountain Valley, California

Boring Identification	Sample Depth (feet BGS)	Location	Date Sampled	EPA METHOD 8260 Volatile Organic Compounds (µg/kg)					
				Benzene	cis-1,2-DCE	trans-1,2-DCE	PCE	TCE	All Other Analytes
B1	2	Outside Cleaners - West of Back Door	3/3/2013	--	--	--	--	--	--
	5			ND	*11.3 J*	ND	ND	ND	ND
	10			ND	ND	ND	**21.9**	**11.9**	ND
B2	2	Inside Cleaners - Southeast of Drycleaning Unit	3/3/2013	--	--	--	--	--	--
	5			ND	**16.7**	ND	**155**	**41.4**	ND
	10			ND	*7.46 J*	ND	**17.0**	*9.47 J*	ND
B3	2	Inside Cleaners - South of Drycleaning Unit	3/3/2013	--	--	--	--	--	--
	5			*1.16 J*	**50.3**	*5.17 J*	**5,750**	**1,000**	ND
	10			ND	*6.87 J*	ND	**18.4**	**10.3**	ND
EPA Regional Soil Screening Levels (RSLs) - Residential				**1,100**	**160,000**	**150,000**	**22,000**	**910**	**NA**
EPA Regional Soil Screening Levels (RSLs) - Industrial				**5,400**	**2,000,000**	**690,000**	**110,000**	**6,400**	**NA**
Method Detection Limit (MDL)				**1**	**5**	**5**	**5**	**5**	**NA**
Pract ical Quantitation Limits (PQL)				**10**	**10**	**10**	**10**	**10**	**NA**

-- - Not Annalyzed
µg/kg- Micrograms per Kilogram
DCE - Dichloroethene
PCE - Tetrachloroethene
TCE - Trichloroethene

ND - Not detected at or above laboratory detection limits
J - Estimated Concentration Value Between the MDL and PQL.
BGS - Below Ground Surface
NA - Not Applicable
- Exceeds EPA RSL for Residential Soils

TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
Callens Corner - Crown Cleaners

Fountain Valley, California

Boring Identification	Sample Depth (feet BGS)	Location	Date Sampled	EPA METHOD 8260 Volatile Organic Compounds (µg/L)					
				1,1- DCE	cis-1,2-DCE	trans-1,2-DCE	PCE	TCE	All Other Analytes
B1	11	Outside Cleaners - West of Back Door	3/5/2013	**2.04**	**441**	**18.6**	**41.5**	**467**	ND
B2	11	Inside Cleaners - Southeast of Drycleaning Unit	3/5/2013	***0.940 J***	**22.9**	**1.57**	**42.2**	**40.8**	ND
Maximum Contaminant Levels (MCLs) - California				**6**	**6**	**10**	**5**	**5**	**NA**
Method Detection Limit (MDL)				**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**NA**
Pract ical Quantitation Limits (PQL)				**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**NA**

µg/L- Micrograms per Liter
BGS - Below Ground Surface
DCE - Dichloroethene
PCE - Tetrachloroethene
TCE - Trichloroethene

NA - Not Applicable
ND - Not detected at or above laboratory detection limits
J - Estimated Concentration Value Between the MDL and PQL.
- Exceeds California MCL

Boring Logs

Appendix A

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Log of Boring No. B-1

Dates Drilled: 3/3/2013 Logged by: AF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): 11

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES DRIVE	SAMPLES BULK	VOCs (PPM)	OTHER
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.				
		3" ASPHALT				
		CLAYEY SILT (ML): gray, moist, loose to slightly consolidated.	X		5.5	
5			X		2.7	
		SAND (SP): brown, fine, well sorted, moist.				
10		**CLAY (CL):** black, moist, very soft.	X		4.6	
		SILTY CLAY (CL): olive, moist, very soft.				
		SILTY SAND (SM): brown, very fine grained, moderately sorted, wet.				
		CLAYEY SILT (ML): wet, dark gray.				
15		Total depth = 15 feet. Groundwater encountered at 11 feet.				

Converse Consultants

Project Name
CROWN CLEANERS
18583 BROOKHURST AVE
FOUNTAIN VALLEY, CA

Project No. 13-42-124-01

Drawing No. B-1

Log of Boring No. B-2

Dates Drilled: 3/3/2013 Logged by: AF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): 11

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES DRIVE	SAMPLES BULK	VOCs (PPM)	OTHER
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.				
		4" CONCRETE				
		SILTY CLAY (SM): gray, moist, loose to slightly consolidated.	X		3.7	
5			X		4.6	
		SAND (SP): brown, fine, well sorted, moist.				
10		**SILTY SAND (SM):** dark brown, minor clay, poorly sorted, wet.	X			
		CLAYEY SILT (ML): wet, dark gray.				
15		Total depth = 15 feet. Groundwater encountered at 11 feet.				

Converse Consultants

Project Name
CROWN CLEANERS
18583 BROOKHURST AVE
FOUNTAIN VALLEY, CA

Project No. 13-42-124-01

Drawing No. B-2

Log of Boring No. B-3

Dates Drilled: 3/3/2013 Logged by: AF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES: DRIVE	SAMPLES: BULK	VOCs (PPM)	OTHER
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.				
		4" CONCRETE				
		SILTY CLAY (SM): gray, moist, loose to slightly consolidated.	X		6.0	
5			X		5.1	
		SAND (SP): brown, fine, well sorted, moist.				
10			X		7.1	
		Total depth = 10 feet. Groundwater not encountered during drilling.				

Converse Consultants

Project Name
CROWN CLEANERS
18583 BROOKHURST AVE
FOUNTAIN VALLEY, CA

Project No. 13-42-124-01

Drawing No. B-3

Analytical Reports and Chain of Custody Documentation

Appendix B

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Ordered By

Converse Consultants
222 E. Huntington Drive Suite 211
Monrovia, CA 91016-8006

Telephone: (626) 930-1200
Attention: Laura Tanaka

Number of Pages	**12**
Date Received	**03/04/2013**
Date Reported	**03/06/2013**

Job Number	Order Date	Client
68762	03/04/2013	CONVRS

Project ID: 13-42-124-01
Project Name: Callens Corner-Crown Cleaners
Site: Crown Cleaners
15583 Brookhurst Street
Fountain Valley, CA 92708

Enclosed please find results of analyses of 6 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

№ 82701

AETL JOB No. 68762 Page 1 of 2 A.E.

COMPANY: Converse Consultants
PROJECT MANAGER: Laura Tanaka
COMPANY ADDRESS: 222 E. Huntington, Monrovia, CA
PHONE: (626) 930-1200
FAX:
PROJECT NAME: Gallens Corner - Crown Cleaners
PROJECT #: 13-42-124-01
SITE NAME / ID / ADDRESS: Crown Cleaners / 15583 Brookhurst St., Fountain Valley, CA
PO #: 13-42-124-01

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	8260B-VOCs	HOLD	TEST INSTRUCTIONS & COMMENTS
B1-2	68762.01	3/3/13	0835	SOIL	4 VOAs; 1 Acetate Sleeve	HCl		X	HOLD
B1-5	68762.02		0840				X		
B1-10	68762.03		0847				X		
B1-GW	68762.04		0900	GW	6 VOAs		X	X	SAMPLE DAMAGE
B2-2	68762.05		1045	SOIL	4 VOAs; 1 Acetate Sleeve			X	HOLD
B2-5	68762.06		1055				X		
B2-10	68762.07		1100				X		
B2-GW	68762.08		1110	GW	6 VOA's		X	X	SAMPLE DAMAGE
B3-2	68762.09		1155	SOIL	4 VOAs; 1 Acetate Sleeve			X	HOLD
B3-5	68762.10		1200				X		
B3-10	68762.11		1205				X		
Trip Blank	68762.12		-	DI water	2 VOA's	None		X	HOLD
EQUIP. Blank	68762.13		1130	DI water	3 VOA's	HC		X	HOLD

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	62	PROPERLY COOLED (Y / N / NA)	
CUSTODY SEALS (Y / N / NA)		SAMPLES INTACT (Y / N / NA)	
RECEIVED IN GOOD COND (Y / N)		SAMPLES ACCEPTED (Y / N)	

TURN AROUND TIME

☐ NORMAL ☒ RUSH
☐ SAME DAY
☐ NEXT DAY
☒ 2 DAYS
☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Alex Fernandez	Printed Name:	Printed Name:
Date: 3/4-13 Time: 1015	Date: Time:	Date: 3/4-13 Time: 1115
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETC 3.**
Signature:	Signature:	Signature:
Printed Name: Wright	Printed Name:	Printed Name:
Date: 3/4-13 Time: 1015	Date: Time:	Date: 3/4-13 Time: 1115

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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Ordered By

Converse Consultants
222 E. Huntington Drive Suite 211
Monrovia, CA 91016-8006

Project ID: 13-42-124-01
Date Received 03/04/2013
Date Reported 03/06/2013

Telephone: (626)930-1200
Attention: Laura Tanaka

Job Number	Order Date	Client
68762	03/04/2013	CONVRS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 13 samples with the following specification on 03/04/2013.

Lab ID	Sample ID	Sample Date	Matrix	QTY of Containers
68762.01	B1-2	03/03/2013	Soil	5
68762.02	B1-5	03/03/2013	Soil	5
68762.03	B1-10	03/03/2013	Soil	5
68762.04	B1-GW	03/03/2013	Aqueous	5
68762.05	B2-2	03/03/2013	Soil	5
68762.06	B2-5	03/03/2013	Soil	5
68762.07	B2-10	03/03/2013	Soil	5
68762.08	B2-GW	03/03/2013	Aqueous	5
68762.09	B3-2	03/03/2013	Soil	5
68762.10	B3-5	03/03/2013	Soil	5
68762.11	B3-10	03/03/2013	Soil	5
68762.12	Trip Blank	03/03/2013	Aqueous	2
68762.13	Equipment Blank	03/03/2013	Aqueous	3

The samples were analyzed as specified on the enclosed chain of custody.
Analytical non-conformances have been noted on the report.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Converse Consultants
222 E. Huntington Drive
Suite 211
Monrovia, CA 91016-8006

Telephone: (626)930-1200
Attn: Laura Tanaka

Site

Crown Cleaners
15583 Brookhurst Street
Fountain Valley, CA 92708

Page: 2

Project ID: 13-42-124-01
Project Name: Callens Corner-Crown Cleaners

AETL Job Number	Submitted	Client
68762	03/04/2013	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0304132A1

Our Lab I.D.			Method Blank	68762.02	68762.03	68762.06	
Client Sample I.D.				B1-5	B1-10	B2-5	
Date Sampled				03/03/2013	03/03/2013	03/03/2013	
Date Prepared			03/04/2013	03/04/2013	03/04/2013	03/04/2013	
Preparation Method			5030	5035A	5035A	5035A	
Date Analyzed			03/04/2013	03/04/2013	03/04/2013	03/04/2013	
Matrix			Soil	Soil	Soil	Soil	
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Acetone	25	50	ND	ND	ND	ND	
Benzene	1.0	10.0	ND	ND	ND	ND	
Bromobenzene (Phenyl bromide)	5.0	10.0	ND	ND	ND	ND	
Bromochloromethane	5.0	10.0	ND	ND	ND	ND	
Bromodichloromethane	5.0	10.0	ND	ND	ND	ND	
Bromoform (Tribromomethane)	25	50	ND	ND	ND	ND	
Bromomethane (Methyl bromide)	15	30	ND	ND	ND	ND	
2-Butanone (MEK)	25	50	ND	ND	ND	ND	
n-Butylbenzene	5.0	10.0	ND	ND	ND	ND	
sec-Butylbenzene	5.0	10.0	ND	ND	ND	ND	
tert-Butylbenzene	5.0	10.0	ND	ND	ND	ND	
Carbon Disulfide	25	50	ND	ND	ND	ND	
Carbon tetrachloride	5.0	10.0	ND	ND	ND	ND	
Chlorobenzene	5.0	10.0	ND	ND	ND	ND	
Chloroethane	15	30	ND	ND	ND	ND	
2-Chloroethyl vinyl ether	50	50	ND	ND	ND	ND	
Chloroform (Trichloromethane)	5.0	10.0	ND	ND	ND	ND	
Chloromethane (Methyl chloride)	15	30	ND	ND	ND	ND	
2-Chlorotoluene	5.0	10.0	ND	ND	ND	ND	
4-Chlorotoluene	5.0	10.0	ND	ND	ND	ND	
1,2-Dibromo-3-chloropropane (DBCP)	25	50	ND	ND	ND	ND	
Dibromochloromethane	5.0	10.0	ND	ND	ND	ND	
1,2-Dibromoethane (EDB)	5.0	10.0	ND	ND	ND	ND	
Dibromomethane	5.0	10.0	ND	ND	ND	ND	
1,2-Dichlorobenzene	5.0	10.0	ND	ND	ND	ND	
1,3-Dichlorobenzene	5.0	10.0	ND	ND	ND	ND	
1,4-Dichlorobenzene	5.0	10.0	ND	ND	ND	ND	

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ANALYTICAL RESULTS

Project ID: 13-42-124-01
Project Name: Callens Corner-Crown Cleaners

AETL Job Number	Submitted	Client
68762	03/04/2013	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0304132A1

Our Lab I.D.			Method Blank	68762.02	68762.03	68762.06	
Client Sample I.D.				B1-5	B1-10	B2-5	
Date Sampled				03/03/2013	03/03/2013	03/03/2013	
Date Prepared			03/04/2013	03/04/2013	03/04/2013	03/04/2013	
Preparation Method			5030	5035A	5035A	5035A	
Date Analyzed			03/04/2013	03/04/2013	03/04/2013	03/04/2013	
Matrix			Soil	Soil	Soil	Soil	
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Dichlorodifluoromethane	15	30	ND	ND	ND	ND	
1,1-Dichloroethane	5.0	10.0	ND	ND	ND	ND	
1,2-Dichloroethane (EDC)	5.0	10.0	ND	ND	ND	ND	
1,1-Dichloroethene	5.0	10.0	ND	ND	ND	ND	
cis-1,2-Dichloroethene	5.0	10.0	ND	11.3J	ND	16.7	
trans-1,2-Dichloroethene	5.0	10.0	ND	ND	ND	ND	
1,2-Dichloropropane	5.0	10.0	ND	ND	ND	ND	
1,3-Dichloropropane	5.0	10.0	ND	ND	ND	ND	
2,2-Dichloropropane	5.0	10.0	ND	ND	ND	ND	
1,1-Dichloropropene	5.0	10.0	ND	ND	ND	ND	
cis-1,3-Dichloropropene	5.0	10.0	ND	ND	ND	ND	
trans-1,3-Dichloropropene	5.0	10.0	ND	ND	ND	ND	
Ethylbenzene	1.0	10.0	ND	ND	ND	ND	
Hexachlorobutadiene	15	30	ND	ND	ND	ND	
2-Hexanone	25	50	ND	ND	ND	ND	
Iodomethane	5.0	10.0	ND	ND	ND	ND	
Isopropylbenzene	5.0	10.0	ND	ND	ND	ND	
p-Isopropyltoluene	5.0	10.0	ND	ND	ND	ND	
4-Methyl-2-pentanone (MIBK)	25	50	ND	ND	ND	ND	
Methyl-tert-butyl ether (MTBE)	2.0	10.0	ND	ND	ND	ND	
Methylene chloride (DCM)	25	50	ND	ND	ND	ND	
Naphthalene	5.0	10.0	ND	ND	ND	ND	
n-Propylbenzene	5.0	10.0	ND	ND	ND	ND	
Styrene	5.0	10.0	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethane	5.0	10.0	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	5.0	10.0	ND	ND	ND	ND	
Tetrachloroethene	5.0	10.0	ND	ND	21.9	155	
Toluene (Methyl benzene)	1.0	10.0	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	5.0	10.0	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	5.0	10.0	ND	ND	ND	ND	
1,1,1-Trichloroethane	5.0	10.0	ND	ND	ND	ND	
1,1,2-Trichloroethane	5.0	10.0	ND	ND	ND	ND	
Trichloroethene	5.0	10.0	ND	ND	11.9	41.4	
Trichlorofluoromethane	5.0	10.0	ND	ND	ND	ND	

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ANALYTICAL RESULTS

Project ID: 13-42-124-01
Project Name: Callens Corner-Crown Cleaners

AETL Job Number	Submitted	Client
68762	03/04/2013	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0304132A1

Our Lab I.D.			Method Blank	68762.02	68762.03	68762.06	
Client Sample I.D.				B1-5	B1-10	B2-5	
Date Sampled				03/03/2013	03/03/2013	03/03/2013	
Date Prepared			03/04/2013	03/04/2013	03/04/2013	03/04/2013	
Preparation Method			5030	5035A	5035A	5035A	
Date Analyzed			03/04/2013	03/04/2013	03/04/2013	03/04/2013	
Matrix			Soil	Soil	Soil	Soil	
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
1,2,3-Trichloropropane	5.0	10.0	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	5.0	10.0	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	5.0	10.0	ND	ND	ND	ND	
Vinyl Acetate	25	50	ND	ND	ND	ND	
Vinyl chloride (Chloroethene)	15	30	ND	ND	ND	ND	
o-Xylene	1.0	10.0	ND	ND	ND	ND	
m,p-Xylenes	1.0	20.0	ND	ND	ND	ND	
Our Lab I.D.			Method Blank	68762.02	68762.03	68762.06	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Bromofluorobenzene	75-125		104	107	104	103	
Dibromofluoromethane	75-125		107	108	105	112	
Toluene-d8	75-125		99.2	94.7	97.8	99.0	

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ANALYTICAL RESULTS

Ordered By

Converse Consultants
222 E. Huntington Drive
Suite 211
Monrovia, CA 91016-8006

Telephone: (626)930-1200
Attn: Laura Tanaka
Page: 5

Site

Crown Cleaners
15583 Brookhurst Street
Fountain Valley, CA 92708

Project ID: 13-42-124-01
Project Name: Callens Corner-Crown Cleaners

AMEC Job Number	Submitted	Client
68762	03/04/2013	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0304132A2

Our Lab I.D.			Method Blank	68762.07			
Client Sample I.D.				B2-10			
Date Sampled				03/03/2013			
Date Prepared			03/04/2013	03/04/2013			
Preparation Method			5030	5035A			
Date Analyzed			03/05/2013	03/05/2013			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Acetone	25	50	ND	ND			
Benzene	1.0	10.0	ND	ND			
Bromobenzene (Phenyl bromide)	5.0	10.0	ND	ND			
Bromochloromethane	5.0	10.0	ND	ND			
Bromodichloromethane	5.0	10.0	ND	ND			
Bromoform (Tribromomethane)	25	50	ND	ND			
Bromomethane (Methyl bromide)	15	30	ND	ND			
2-Butanone (MEK)	25	50	ND	ND			
n-Butylbenzene	5.0	10.0	ND	ND			
sec-Butylbenzene	5.0	10.0	ND	ND			
tert-Butylbenzene	5.0	10.0	ND	ND			
Carbon Disulfide	25	50	ND	ND			
Carbon tetrachloride	5.0	10.0	ND	ND			
Chlorobenzene	5.0	10.0	ND	ND			
Chloroethane	15	30	ND	ND			
2-Chloroethyl vinyl ether	50	50	ND	ND			
Chloroform (Trichloromethane)	5.0	10.0	ND	ND			
Chloromethane (Methyl chloride)	15	30	ND	ND			
2-Chlorotoluene	5.0	10.0	ND	ND			
4-Chlorotoluene	5.0	10.0	ND	ND			
1,2-Dibromo-3-chloropropane (DBCP)	25	50	ND	ND			
Dibromochloromethane	5.0	10.0	ND	ND			
1,2-Dibromoethane (EDB)	5.0	10.0	ND	ND			
Dibromomethane	5.0	10.0	ND	ND			
1,2-Dichlorobenzene	5.0	10.0	ND	ND			
1,3-Dichlorobenzene	5.0	10.0	ND	ND			
1,4-Dichlorobenzene	5.0	10.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: 13-42-124-01
Project Name: Callens Corner-Crown Cleaners

AETL Job Number	Submitted	Client
68762	03/04/2013	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0304132A2

Our Lab I.D.			Method Blank	68762.07			
Client Sample I.D.				B2-10			
Date Sampled				03/03/2013			
Date Prepared			03/04/2013	03/04/2013			
Preparation Method			5030	5035A			
Date Analyzed			03/05/2013	03/05/2013			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Dichlorodifluoromethane	15	30	ND	ND			
1,1-Dichloroethane	5.0	10.0	ND	ND			
1,2-Dichloroethane (EDC)	5.0	10.0	ND	ND			
1,1-Dichloroethene	5.0	10.0	ND	ND			
cis-1,2-Dichloroethene	5.0	10.0	ND	7.46J			
trans-1,2-Dichloroethene	5.0	10.0	ND	ND			
1,2-Dichloropropane	5.0	10.0	ND	ND			
1,3-Dichloropropane	5.0	10.0	ND	ND			
2,2-Dichloropropane	5.0	10.0	ND	ND			
1,1-Dichloropropene	5.0	10.0	ND	ND			
cis-1,3-Dichloropropene	5.0	10.0	ND	ND			
trans-1,3-Dichloropropene	5.0	10.0	ND	ND			
Ethylbenzene	1.0	10.0	ND	ND			
Hexachlorobutadiene	15	30	ND	ND			
2-Hexanone	25	50	ND	ND			
Iodomethane	5.0	10.0	ND	ND			
Isopropylbenzene	5.0	10.0	ND	ND			
p-Isopropyltoluene	5.0	10.0	ND	ND			
4-Methyl-2-pentanone (MIBK)	25	50	ND	ND			
Methyl-tert-butyl ether (MTBE)	2.0	10.0	ND	ND			
Methylene chloride (DCM)	25	50	ND	ND			
Naphthalene	5.0	10.0	ND	ND			
n-Propylbenzene	5.0	10.0	ND	ND			
Styrene	5.0	10.0	ND	ND			
1,1,1,2-Tetrachloroethane	5.0	10.0	ND	ND			
1,1,2,2-Tetrachloroethane	5.0	10.0	ND	ND			
Tetrachloroethene	5.0	10.0	ND	17.0			
Toluene (Methyl benzene)	1.0	10.0	ND	ND			
1,2,3-Trichlorobenzene	5.0	10.0	ND	ND			
1,2,4-Trichlorobenzene	5.0	10.0	ND	ND			
1,1,1-Trichloroethane	5.0	10.0	ND	ND			
1,1,2-Trichloroethane	5.0	10.0	ND	ND			
Trichloroethene	5.0	10.0	ND	9.47J			
Trichlorofluoromethane	5.0	10.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: 13-42-124-01
Project Name: Callens Corner-Crown Cleaners

AETL Job Number	Submitted	Client
68762	03/04/2013	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0304132A2

Our Lab I.D.			Method Blank	**68762.07**			
Client Sample I.D.				B2-10			
Date Sampled				03/03/2013			
Date Prepared			03/04/2013	03/04/2013			
Preparation Method			5030	5035A			
Date Analyzed			03/05/2013	03/05/2013			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
1,2,3-Trichloropropane	5.0	10.0	ND	ND			
1,2,4-Trimethylbenzene	5.0	10.0	ND	ND			
1,3,5-Trimethylbenzene	5.0	10.0	ND	ND			
Vinyl Acetate	25	50	ND	ND			
Vinyl chloride (Chloroethene)	15	30	ND	ND			
o-Xylene	1.0	10.0	ND	ND			
m,p-Xylenes	1.0	20.0	ND	ND			
Our Lab I.D.			Method Blank	**68762.07**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	75-125		102	107			
Dibromofluoromethane	75-125		101	115			
Toluene-d8	75-125		102	95.3			

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ANALYTICAL RESULTS

Ordered By

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Site

Crown Cleaners
15583 Brookhurst Street
Fountain Valley, CA 92708

Page: 8

Project ID: 13-42-124-01
Project Name: Callens Corner-Crown Cleaners

AETL Job Number	Submitted	Client
68762	03/04/2013	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0304132A1

Our Lab I.D.			68762.10	68762.11			
Client Sample I.D.			B3-5	B3-10			
Date Sampled			03/03/2013	03/03/2013			
Date Prepared			03/04/2013	03/04/2013			
Preparation Method			5035A	5035A			
Date Analyzed			03/04/2013	03/04/2013			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Acetone	25	50	ND	ND			
Benzene	1.0	10.0	1.16J	ND			
Bromobenzene (Phenyl bromide)	5.0	10.0	ND	ND			
Bromochloromethane	5.0	10.0	ND	ND			
Bromodichloromethane	5.0	10.0	ND	ND			
Bromoform (Tribromomethane)	25	50	ND	ND			
Bromomethane (Methyl bromide)	15	30	ND	ND			
2-Butanone (MEK)	25	50	ND	ND			
n-Butylbenzene	5.0	10.0	ND	ND			
sec-Butylbenzene	5.0	10.0	ND	ND			
tert-Butylbenzene	5.0	10.0	ND	ND			
Carbon Disulfide	25	50	ND	ND			
Carbon tetrachloride	5.0	10.0	ND	ND			
Chlorobenzene	5.0	10.0	ND	ND			
Chloroethane	15	30	ND	ND			
2-Chloroethyl vinyl ether	50	50	ND	ND			
Chloroform (Trichloromethane)	5.0	10.0	ND	ND			
Chloromethane (Methyl chloride)	15	30	ND	ND			
2-Chlorotoluene	5.0	10.0	ND	ND			
4-Chlorotoluene	5.0	10.0	ND	ND			
1,2-Dibromo-3-chloropropane (DBCP)	25	50	ND	ND			
Dibromochloromethane	5.0	10.0	ND	ND			
1,2-Dibromoethane (EDB)	5.0	10.0	ND	ND			
Dibromomethane	5.0	10.0	ND	ND			
1,2-Dichlorobenzene	5.0	10.0	ND	ND			
1,3-Dichlorobenzene	5.0	10.0	ND	ND			
1,4-Dichlorobenzene	5.0	10.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: 13-42-124-01
Project Name: Callens Corner-Crown Cleaners

AETL Job Number	Submitted	Client
68762	03/04/2013	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0304132A1

Our Lab I.D.			**68762.10**	**68762.11**			
Client Sample I.D.			B3-5	B3-10			
Date Sampled			03/03/2013	03/03/2013			
Date Prepared			03/04/2013	03/04/2013			
Preparation Method			5035A	5035A			
Date Analyzed			03/04/2013	03/04/2013			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Dichlorodifluoromethane	15	30	ND	ND			
1,1-Dichloroethane	5.0	10.0	ND	ND			
1,2-Dichloroethane (EDC)	5.0	10.0	ND	ND			
1,1-Dichloroethene	5.0	10.0	ND	ND			
cis-1,2-Dichloroethene	5.0	10.0	50.3	6.87J			
trans-1,2-Dichloroethene	5.0	10.0	5.17J	ND			
1,2-Dichloropropane	5.0	10.0	ND	ND			
1,3-Dichloropropane	5.0	10.0	ND	ND			
2,2-Dichloropropane	5.0	10.0	ND	ND			
1,1-Dichloropropene	5.0	10.0	ND	ND			
cis-1,3-Dichloropropene	5.0	10.0	ND	ND			
trans-1,3-Dichloropropene	5.0	10.0	ND	ND			
Ethylbenzene	1.0	10.0	ND	ND			
Hexachlorobutadiene	15	30	ND	ND			
2-Hexanone	25	50	ND	ND			
Iodomethane	5.0	10.0	ND	ND			
Isopropylbenzene	5.0	10.0	ND	ND			
p-Isopropyltoluene	5.0	10.0	ND	ND			
4-Methyl-2-pentanone (MIBK)	25	50	ND	ND			
Methyl-tert-butyl ether (MTBE)	2.0	10.0	ND	ND			
Methylene chloride (DCM)	25	50	ND	ND			
Naphthalene	5.0	10.0	ND	ND			
n-Propylbenzene	5.0	10.0	ND	ND			
Styrene	5.0	10.0	ND	ND			
1,1,1,2-Tetrachloroethane	5.0	10.0	ND	ND			
1,1,2,2-Tetrachloroethane	5.0	10.0	ND	ND			
Tetrachloroethene	5.0	10.0	5,750	18.4			
Toluene (Methyl benzene)	1.0	10.0	ND	ND			
1,2,3-Trichlorobenzene	5.0	10.0	ND	ND			
1,2,4-Trichlorobenzene	5.0	10.0	ND	ND			
1,1,1-Trichloroethane	5.0	10.0	ND	ND			
1,1,2-Trichloroethane	5.0	10.0	ND	ND			
Trichloroethene	5.0	10.0	1,000	10.3			
Trichlorofluoromethane	5.0	10.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: 13-42-124-01
Project Name: Callens Corner-Crown Cleaners

AETL Job Number	Submitted	Client
68762	03/04/2013	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0304132A1

Our Lab I.D.			68762.10	68762.11			
Client Sample I.D.			B3-5	B3-10			
Date Sampled			03/03/2013	03/03/2013			
Date Prepared			03/04/2013	03/04/2013			
Preparation Method			5035A	5035A			
Date Analyzed			03/04/2013	03/04/2013			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
1,2,3-Trichloropropane	5.0	10.0	ND	ND			
1,2,4-Trimethylbenzene	5.0	10.0	ND	ND			
1,3,5-Trimethylbenzene	5.0	10.0	ND	ND			
Vinyl Acetate	25	50	ND	ND			
Vinyl chloride (Chloroethene)	15	30	ND	ND			
o-Xylene	1.0	10.0	ND	ND			
m,p-Xylenes	1.0	20.0	ND	ND			
Our Lab I.D.			68762.10	68762.11			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	75-125		99.0	107			
Dibromofluoromethane	75-125		117	118			
Toluene-d8	75-125		96.6	97.9			

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QUALITY CONTROL RESULTS

Ordered By

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Site

Crown Cleaners
15583 Brookhurst Street
Fountain Valley, CA 92708

Project ID: 13-42-124-01
Project Name: Callens Corner-Crown Cleaners

AETL Job Number	Submitted	Client
68762	03/04/2013	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0304132A1; Dup or Spiked Sample: 68753.06; LCS: Clean Sand; QC Prepared: 03/04/2013; QC Analyzed: 03/04/2013; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	50.0	34.8 #	69.6	50.0	38.6	77.2	10.4	75-125	<20
Chlorobenzene	0.00	50.0	33.6 #	67.2	50.0	38.2	76.4	12.8	75-125	<20
1,1-Dichloroethene	0.00	50.0	38.0	76.0	50.0	40.3	80.6	5.87	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	37.9	75.8	50.0	43.3	86.6	13.3	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	35.7 #	71.4	50.0	38.7	77.4	8.06	75-125	<20
Trichloroethene	0.00	50.0	39.5	79.0	50.0	43.0	86.0	8.48	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	50.0	48.6	97.2	50.0	49.0	98.0	<1	75-125	<20
Dibromofluoromethane	0.00	50.0	51.0	102	50.0	50.5	101	<1	75-125	<20
Toluene-d8	0.00	50.0	47.7	95.4	50.0	47.2	94.4	1.05	75-125	<20

QC Batch No: 0304132A1; Dup or Spiked Sample: 68753.06; LCS: Clean Sand; QC Prepared: 03/04/2013; QC Analyzed: 03/04/2013; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzene	50.0	39.5	79.0	50.0	42.1	84.0	6.13	75-125	<20	
Chlorobenzene	50.0	39.3	78.6	50.0	41.2	82.0	4.23	75-125	<20	
1,1-Dichloroethene	50.0	38.6	77.2	50.0	41.6	83.0	7.24	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	45.5	91.0	50.0	45.0	90.0	1.10	75-125	<20	
Toluene (Methyl benzene)	50.0	39.9	79.8	50.0	43.0	86.0	7.48	75-125	<20	
Trichloroethene	50.0	43.2	86.4	50.0	46.8	94.0	8.43	75-125	<20	
LCS										
Chloroform (Trichloromethane)	50.0	45.4	90.8	50.0	45.2	90.0	<1	75-125	<20	
Ethylbenzene	50.0	41.1	82.2	50.0	44.0	88.0	6.82	75-125	<20	
1,1,1-Trichloroethane	50.0	46.6	93.2	50.0	50.1	100	7.04	75-125	<20	
o-Xylene	50.0	37.9	75.8	50.0	40.0	80.0	5.39	75-125	<20	
m,p-Xylenes	100	78.3	78.3	100	82.1	82.1	4.74	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	50.2	100	50.0	49.8	99.5	<1	75-125	<20	
Dibromofluoromethane	50.0	50.3	101	50.0	48.3	96.6	4.36	75-125	<20	
Toluene-d8	50.0	47.4	94.8	50.0	48.4	96.8	2.11	75-125	<20	

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QUALITY CONTROL RESULTS

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Page: **12**

Site

Crown Cleaners
15583 Brookhurst Street
Fountain Valley, CA 92708

Project ID: 13-42-124-01
Project Name: Callens Corner-Crown Cleaners

AETL Job Number	Submitted	Client
68762	03/04/2013	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0304132A2; Dup or Spiked Sample: 68749.05; LCS: Clean Sand; QC Prepared: 03/04/2013;MS Analyzed: 03/05/2013; LCS Analyzed: 03/04/2013; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	50.0	34.0 #	68.0	50.0	34.1 #	68.2	<1	75-125	<20
Chlorobenzene	0.00	50.0	28.8 #	57.6	50.0	28.7 #	57.4	<1	75-125	<20
1,1-Dichloroethene	0.00	50.0	35.6 #	71.2	50.0	37.2 #	74.4	4.40	75-125	<20
Methyl-tert-butyl ether (MTBE)	14.7	50.0	43.3 #	57.2	50.0	45.6 #	61.8	7.73	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	32.5 #	65.0	50.0	32.7 #	65.4	<1	75-125	<20
Trichloroethene	0.00	50.0	38.2	76.4	50.0	37.5	75.0	1.85	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	50.0	49.5	99.0	50.0	47.8	95.5	3.54	75-125	<20
Dibromofluoromethane	0.00	50.0	51.5	103	50.0	53.5	107	3.88	75-125	<20
Toluene-d8	0.00	50.0	46.5	93.0	50.0	46.8	93.5	<1	75-125	<20

QC Batch No: 0304132A2; Dup or Spiked Sample: 68749.05; LCS: Clean Sand; QC Prepared: 03/04/2013;MS Analyzed: 03/05/2013; LCS Analyzed: 03/04/2013; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzene	50.0	43.7	87.4	50.0	43.1	86.0	1.61	75-125	<20	
Chlorobenzene	50.0	42.8	85.6	50.0	42.0	84.0	1.89	75-125	<20	
1,1-Dichloroethene	50.0	45.0	90.0	50.0	43.6	87.0	3.39	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	51.0	102	50.0	49.0	98.0	4.00	75-125	<20	
Toluene (Methyl benzene)	50.0	44.5	89.0	50.0	43.5	87.0	2.27	75-125	<20	
Trichloroethene	50.0	49.8	99.6	50.0	48.2	96.0	3.68	75-125	<20	
LCS										
Chloroform (Trichloromethane)	50.0	49.2	98.4	50.0	47.6	95.0	3.52	75-125	<20	
Ethylbenzene	50.0	45.2	90.4	50.0	44.6	89.0	1.56	75-125	<20	
1,1,1-Trichloroethane	50.0	54.0	108	50.0	51.9	104	3.77	75-125	<20	
o-Xylene	50.0	41.2	82.4	50.0	40.3	81.0	1.71	75-125	<20	
m,p-Xylenes	100	87.1	87.1	100	86.3	86.3	<1	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	50.0	100	50.0	49.4	98.7	1.30	75-125	<20	
Dibromofluoromethane	50.0	50.6	101	50.0	49.9	99.8	1.19	75-125	<20	
Toluene-d8	50.0	47.9	95.7	50.0	48.1	96.1	<1	75-125	<20	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Converse Consultants
222 E. Huntington Drive Suite 211
Monrovia, CA 91016-8006

Telephone: (626)930-1200
Attention: Laura Tanaka

Number of Pages	**6**
Date Received	**03/05/2013**
Date Reported	**03/06/2013**

Job Number	Order Date	Client
68770	03/05/2013	CONVRS

Project ID: 13-42-124-01
Project Name: Callens Corner-Crown Cleaners
Site: Crown Cleaners
15583 Brookhurst Street
Fountain Valley, CA 92708

Enclosed please find results of analyses of 3 water samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

№ 82741

AETL JOB No. 68770

Page 1 of 1

COMPANY: Converse Consultants
PROJECT MANAGER: L Tanaka
COMPANY ADDRESS: 22 E. Huntington Drive
PHONE: 626-930-1200
FAX: -1212
PROJECT NAME: Crown Cleaners
PROJECT #: 13421241-01
SITE NAME
ID
ADDRESS
PO #

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED: 8260B- VOCs	TEST INSTRUCTIONS & COMMENTS
B1	68770.01	3/5/13	8:30	water	3 VOA	Ice/HCl	X	
B2	68770.02	"	8:06	↓	3 VOA	↓	X	
Trip Blank	68770.03	—	—	↓	2 VOA	↓	X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS: 8
CUSTODY SEALS Y / N / NA
RECEIVED IN GOOD COND. Y / N
PROPERLY COOLED Y / N / NA
SAMPLES INTACT Y / N / NA
SAMPLES ACCEPTED Y / N

TURN AROUND TIME

☐ NORMAL ☒ RUSH
☐ SAME DAY
☒ NEXT DAY
☐ 2 DAYS
☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Michael Van Fleet	Printed Name:	Printed Name:
Date: 3/5/13 Time:	Date: Time:	Date: 3-5-13 Time: 10:15
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: 3-5-13 Time: 0940	Date: Time:	Date: 03/06/13 Time: 10:15

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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Ordered By

Converse Consultants
222 E. Huntington Drive Suite 211
Monrovia, CA 91016-8006

Telephone: (626)930-1200
Attention: Laura Tanaka

Project ID: 13-42-124-01
Date Received 03/05/2013
Date Reported 03/06/2013

Job Number	Order Date	Client
68770	03/05/2013	CONVRS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 3 samples with the following specification on 03/05/2013.

Lab ID	Sample ID	Sample Date	Matrix	QTY of Containers
68770.01	B1	03/05/2013	Aqueous	3
68770.02	B2	03/05/2013	Aqueous	3
68770.03	Trip Blank	03/05/2013	Aqueous	2

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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ANALYTICAL RESULTS

Ordered By

Converse Consultants
222 E. Huntington Drive
Suite 211
Monrovia, CA 91016-8006

Telephone: (626)930-1200
Attn: Laura Tanaka
Page: 2

Site

Crown Cleaners
15583 Brookhurst Street
Fountain Valley, CA 92708

Project ID: 13-42-124-01
Project Name: Callens Corner-Crown Cleaners

AETL Job Number	Submitted	Client
68770	03/05/2013	CONVRS

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0305131A1

Our Lab I.D.			Method Blank	68770.01	68770.02	68770.03	
Client Sample I.D.				B1	B2	Trip Blank	
Date Sampled				03/05/2013	03/05/2013	03/05/2013	
Date Prepared			03/05/2013	03/05/2013	03/05/2013	03/05/2013	
Preparation Method			5030B	5030B	5030B	5030B	
Date Analyzed			03/05/2013	03/05/2013	03/05/2013	03/05/2013	
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	
Units			ug/L	ug/L	ug/L	ug/L	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Acetone	10	10	ND	ND	ND	ND	
Benzene	0.5	1.0	ND	ND	ND	ND	
Bromobenzene (Phenyl bromide)	0.5	1.0	ND	ND	ND	ND	
Bromochloromethane	0.5	1.0	ND	ND	ND	ND	
Bromodichloromethane	0.5	1.0	ND	ND	ND	ND	
Bromoform (Tribromomethane)	2.5	5.0	ND	ND	ND	ND	
Bromomethane (Methyl bromide)	1.5	3.0	ND	ND	ND	ND	
2-Butanone (MEK)	5.0	5.0	ND	ND	ND	ND	
n-Butylbenzene	0.5	1.0	ND	ND	ND	ND	
sec-Butylbenzene	0.5	1.0	ND	ND	ND	ND	
tert-Butylbenzene	0.5	1.0	ND	ND	ND	ND	
Carbon Disulfide	0.5	1.0	ND	ND	ND	ND	
Carbon tetrachloride	0.5	1.0	ND	ND	ND	ND	
Chlorobenzene	0.5	1.0	ND	ND	ND	ND	
Chloroethane	1.5	3.0	ND	ND	ND	ND	
2-Chloroethyl vinyl ether	2.5	5.0	ND	ND	ND	ND	
Chloroform (Trichloromethane)	0.5	1.0	ND	ND	ND	ND	
Chloromethane (Methyl chloride)	1.5	3.0	ND	ND	ND	ND	
2-Chlorotoluene	0.5	1.0	ND	ND	ND	ND	
4-Chlorotoluene	0.5	1.0	ND	ND	ND	ND	
1,2-Dibromo-3-chloropropane (DBCP)	2.5	5.0	ND	ND	ND	ND	
Dibromochloromethane	0.5	1.0	ND	ND	ND	ND	
1,2-Dibromoethane (EDB)	0.5	1.0	ND	ND	ND	ND	
Dibromomethane	0.5	1.0	ND	ND	ND	ND	
1,2-Dichlorobenzene	0.5	1.0	ND	ND	ND	ND	
1,3-Dichlorobenzene	0.5	1.0	ND	ND	ND	ND	
1,4-Dichlorobenzene	0.5	1.0	ND	ND	ND	ND	

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ANALYTICAL RESULTS

Project ID: 13-42-124-01
Project Name: Callens Corner-Crown Cleaners

AETL Job Number	Submitted	Client
68770	03/05/2013	CONVRS

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0305131A1

Our Lab I.D.			Method Blank	68770.01	68770.02	68770.03	
Client Sample I.D.				B1	B2	Trip Blank	
Date Sampled				03/05/2013	03/05/2013	03/05/2013	
Date Prepared			03/05/2013	03/05/2013	03/05/2013	03/05/2013	
Preparation Method			5030B	5030B	5030B	5030B	
Date Analyzed			03/05/2013	03/05/2013	03/05/2013	03/05/2013	
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	
Units			ug/L	ug/L	ug/L	ug/L	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Dichlorodifluoromethane	1.5	3.0	ND	ND	ND	ND	
1,1-Dichloroethane	0.5	1.0	ND	ND	ND	ND	
1,2-Dichloroethane (EDC)	0.5	1.0	ND	ND	ND	ND	
1,1-Dichloroethene	0.5	1.0	ND	2.04	0.940J	ND	
cis-1,2-Dichloroethene	0.5	1.0	ND	441	22.9	ND	
trans-1,2-Dichloroethene	0.5	1.0	ND	18.6	1.57	ND	
1,2-Dichloropropane	0.5	1.0	ND	ND	ND	ND	
1,3-Dichloropropane	0.5	1.0	ND	ND	ND	ND	
2,2-Dichloropropane	0.5	1.0	ND	ND	ND	ND	
1,1-Dichloropropene	0.5	1.0	ND	ND	ND	ND	
cis-1,3-Dichloropropene	0.5	1.0	ND	ND	ND	ND	
trans-1,3-Dichloropropene	0.5	1.0	ND	ND	ND	ND	
Ethylbenzene	0.5	1.0	ND	ND	ND	ND	
Hexachlorobutadiene	1.5	3.0	ND	ND	ND	ND	
2-Hexanone	2.5	5.0	ND	ND	ND	ND	
Iodomethane	0.5	1.0	ND	ND	ND	ND	
Isopropylbenzene	0.5	1.0	ND	ND	ND	ND	
p-Isopropyltoluene	0.5	1.0	ND	ND	ND	ND	
4-Methyl-2-pentanone (MIBK)	2.5	5.0	ND	ND	ND	ND	
Methyl-tert-butyl ether (MTBE)	0.5	1.0	ND	ND	ND	ND	
Methylene chloride (DCM)	2.0	4.0	ND	ND	ND	ND	
Naphthalene	0.5	1.0	ND	ND	ND	ND	
n-Propylbenzene	0.5	1.0	ND	ND	ND	ND	
Styrene	0.5	1.0	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethane	0.5	1.0	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	0.5	1.0	ND	ND	ND	ND	
Tetrachloroethene	0.5	1.0	ND	41.5	42.2	ND	
Toluene (Methyl benzene)	0.5	1.0	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	0.5	1.0	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	0.5	1.0	ND	ND	ND	ND	
1,1,1-Trichloroethane	0.5	1.0	ND	ND	ND	ND	
1,1,2-Trichloroethane	0.5	1.0	ND	ND	ND	ND	
Trichloroethene	0.5	1.0	ND	467	40.8	ND	
Trichlorofluoromethane	0.5	1.0	ND	ND	ND	ND	

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ANALYTICAL RESULTS

Project ID: 13-42-124-01
Project Name: Callens Corner-Crown Cleaners

AETL Job Number	Submitted	Client
68770	03/05/2013	CONVRS

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0305131A1

Our Lab I.D.			Method Blank	68770.01	68770.02	68770.03	
Client Sample I.D.				B1	B2	Trip Blank	
Date Sampled				03/05/2013	03/05/2013	03/05/2013	
Date Prepared			03/05/2013	03/05/2013	03/05/2013	03/05/2013	
Preparation Method			5030B	5030B	5030B	5030B	
Date Analyzed			03/05/2013	03/05/2013	03/05/2013	03/05/2013	
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	
Units			ug/L	ug/L	ug/L	ug/L	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
1,2,3-Trichloropropane	0.5	1.0	ND	ND	ND	ND	
Trichlorotrifluoroethane (Freon-113)	0.5	1.0	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	0.5	1.0	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	0.5	1.0	ND	ND	ND	ND	
Vinyl Acetate	0.5	5.0	ND	ND	ND	ND	
Vinyl chloride (Chloroethene)	0.5	3.0	ND	ND	ND	ND	
o-Xylene	0.5	1.0	ND	ND	ND	ND	
m,p-Xylenes	1.0	2.0	ND	ND	ND	ND	
Our Lab I.D.			Method Blank	68770.01	68770.02	68770.03	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Bromofluorobenzene	75-125		109	109	108	112	
Dibromofluoromethane	75-125		99.1	100	100	99.4	
Toluene-d8	75-125		105	104	105	104	

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QUALITY CONTROL RESULTS

Ordered By

Converse Consultants
222 E. Huntington Drive
Suite 211
Monrovia, CA 91016-8006

Telephone: (626)930-1200
Attn: Laura Tanaka
Page: 5

Site

Crown Cleaners
15583 Brookhurst Street
Fountain Valley, CA 92708

Project ID: 13-42-124-01
Project Name: Callens Corner-Crown Cleaners

AETL Job Number	Submitted	Client
68770	03/05/2013	CONVRS

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0305131A1; Dup or Spiked Sample: B0305131A1; LCS: Clean Water; QC Prepared: 03/05/2013; QC Analyzed: 03/05/2013; Units: ug/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	50.0	49.2	98.4	50.0	49.4	98.8	<1	75-125	<20
Chlorobenzene	0.00	50.0	47.3	94.6	50.0	48.4	96.8	2.30	75-125	<20
1,1-Dichloroethene	0.00	50.0	56.0	112	50.0	55.0	110	1.80	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	46.6	93.2	50.0	48.0	96.0	2.96	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	49.1	98.2	50.0	50.0	100	1.82	75-125	<20
Trichloroethene	0.00	50.0	49.3	98.6	50.0	49.3	98.6	<1	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	50.0	45.3	90.5	50.0	44.7	89.4	1.22	75-125	<20
Dibromofluoromethane	0.00	50.0	49.2	98.4	50.0	50.0	100	1.63	75-125	<20
Toluene-d8	0.00	50.0	50.5	101	50.0	51.0	102	<1	75-125	<20

QC Batch No: 0305131A1; Dup or Spiked Sample: B0305131A1; LCS: Clean Water; QC Prepared: 03/05/2013; QC Analyzed: 03/05/2013; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzene	50.0	45.9	91.8	50.0	49.4	99.0	7.55	75-125	<20	
Chlorobenzene	50.0	45.3	90.6	50.0	48.0	96.0	5.79	75-125	<20	
1,1-Dichloroethene	50.0	51.5	103	50.0	54.7	109	5.66	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	42.6	85.2	50.0	46.7	93.0	8.75	75-125	<20	
Toluene (Methyl benzene)	50.0	46.5	93.0	50.0	49.8	100	7.25	75-125	<20	
Trichloroethene	50.0	46.0	92.0	50.0	48.9	98.0	6.32	75-125	<20	
LCS										
Chloroform (Trichloromethane)	50.0	46.7	93.4	50.0	50.4	101	7.82	75-125	<20	
Ethylbenzene	50.0	47.4	94.8	50.0	50.2	100	5.34	75-125	<20	
1,1,1-Trichloroethane	50.0	45.6	91.2	50.0	48.8	98.0	7.19	75-125	<20	
o-Xylene	50.0	43.9	87.8	50.0	46.5	93.0	5.75	75-125	<20	
m,p-Xylenes	100	93.1	93.1	100	98.4	98.4	5.54	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	45.6	91.2	50.0	45.2	90.5	<1	75-125	<20	
Dibromofluoromethane	50.0	49.2	98.3	50.0	49.6	99.2	<1	75-125	<20	

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QUALITY CONTROL RESULTS

Project ID: 13-42-124-01
Project Name: Callens Corner-Crown Cleaners

AETL Job Number	Submitted	Client
68770	03/05/2013	CONVRS

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0305131A1; Dup or Spiked Sample: B0305131A1; LCS: Clean Water; QC Prepared: 03/05/2013; QC Analyzed: 03/05/2013; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Toluene-d8	50.0	50.8	102	50.0	50.7	101	<1	75-125	<20	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

File Review Documentation

Appendix C

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STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER

ARCO #1912 (T0605900032) - (MAP)

18480 BROOKHURST
FOUNTAIN VALLEY, CA 92708
ORANGE COUNTY
LUST CLEANUP SITE

CLEANUP OVERSIGHT AGENCIES
ORANGE COUNTY LOP *(LEAD)* - *CASE #: 85UT085*
CASEWORKER: *SHYAMALA VENUGOPAL*
SANTA ANA RWQCB (REGION 8) - *CASE #: 083000038T*
CASEWORKER: *VALERIE JAHN-ELL*
CUF Claim #: 8935
CUF Priority Assigned: D
CUF Amount Paid:

Regulatory Profile

PRINTABLE CASE SUMMARY

CLEANUP STATUS - DEFINITIONS
OPEN - REMEDIATION AS OF 4/6/2002 - CLEANUP STATUS HISTORY

POTENTIAL CONTAMINANTS OF CONCERN
GASOLINE

POTENTIAL MEDIA AFFECTED
OTHER GROUNDWATER (USES OTHER THAN DRINKING WATER)

FILE LOCATION
LOCAL AGENCY

BENEFICIAL USE
GW - MUNICIPAL AND DOMESTIC SUPPLY

GROUNDWATER MONITORING FREQUENCY
OF WELLS MONITORED - QUARTERLY : 24

REASONS FOR QUARTERLY OR MONTHLY OR OTHER GROUNDWATER MONITORING:
- Well Being Sampled During Remedial Action for Progress Assessment
- Other

Site History

Please refer to recent Site Documents or Monitoring Reports in GeoTracker for site history. Orange County is not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants for the responsible party.

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Cleanup Action Report

ACTION TYPE	BEGIN DATE	END DATE	PHASE	CONTAMINANT MASS REMOVED	DESCRIPTION
IN SITU PHYSICAL/CHEMICAL TREATMENT (OTHER THAN SVE)	3/17/2001	5/9/2011	Other (See Description)	28,592 Pounds	system downtime from November 26, 2002 through October 2003 when the system returned to continued operation.
EXCAVATION	9/1/1985	10/1/1985			

CLOSURE REVIEW - THIS CASE IS NOT READY FOR CLOSURE AS OF 4/6/2010 VIEW ALL POSSIBLE CLOSURE REVIEW VALUES

IMPEDIMENTS TO CLOSURE

PLUME INSTABILITY
- Groundwater Contamination Plume Not Stable or Decreasing -
- Verification Monitoring Not Complete -

GROUNDWATER IMPACTS
- Groundwater Impacted Above Background -
- Groundwater Impacted Above Other Cleanup Goal -

BENEFITS OF ADDITIONAL WORK
- Verify Remedial Action Effectiveness -

SENSITIVE RECEPTORS LIKELY TO BE IMPACTED AND TIME FRAME FOR IMPACT

SENSITIVE RECEPTOR	TIME FRAME FOR IMPACT	COMMENTS
Groundwater	Already Impacted	

Cleanup Status History

DATE	STATUS
4/5/2002	Open - Remediation
9/19/1985	Open - Case Begin Date

Regulatory Activities * Indicates a revised due date

	ACTION TYPE	ACTION	ACTION DATE	RECEIVED / ISSUE DATE
	OTHER REGULATORY ACTIONS	File review	3/8/2011	3/8/2011
[VIEW DOCS]	*ENFORCEMENT/ORDERS*	Staff Letter	7/1/2009	7/1/2009
	ENFORCEMENT/ORDERS	Staff Letter	2/8/2005	2/8/2005
	ENFORCEMENT/ORDERS	Staff Letter	10/7/2004	10/7/2004
	ENFORCEMENT/ORDERS	Staff Letter	12/17/2003	12/17/2003
	ENFORCEMENT/ORDERS	Staff Letter	10/21/2003	10/21/2003
	CLEANUP ACTION	In Situ Physical/Chemical Treatment (other than SVE)	3/17/2001	
	ENFORCEMENT/ORDERS	* Historical Enforcement	4/12/1999	4/12/1999
	LEAK ACTION	Leak Discovery	9/19/1985	
	LEAK ACTION	Leak Reported	9/19/1985	
	CLEANUP ACTION	Excavation	9/1/1985	

Regulatory Activities

* Indicates a revised due date

	ACTION TYPE	ACTION	ACTION DATE	RECEIVED / ISSUE DATE
	OTHER REGULATORY ACTIONS	File review	3/8/2011	3/8/2011
VIEW DOCS	ENFORCEMENT/ORDERS	Staff Letter	7/1/2009	7/1/2009
	ENFORCEMENT/ORDERS	Staff Letter	2/8/2005	2/8/2005
	ENFORCEMENT/ORDERS	Staff Letter	10/7/2004	10/7/2004
	ENFORCEMENT/ORDERS	Staff Letter	12/17/2003	12/17/2003
	ENFORCEMENT/ORDERS	Staff Letter	10/21/2003	10/21/2003
	CLEANUP ACTION	In Situ Physical/Chemical Treatment (other than SVE)	3/17/2001	
	ENFORCEMENT/ORDERS	* Historical Enforcement	4/12/1999	4/12/1999
	LEAK ACTION	Leak Discovery	9/19/1985	
	LEAK ACTION	Leak Reported	9/19/1985	
	CLEANUP ACTION	Excavation	9/1/1985	

* DENOTES A SUBMITTAL WAS AUTO-RECEIVED

Individual Well Analytical Data

FIELD POINT NAME	FIELD POINT CLASS	MIN DEPTH TO WATER	MAX DEPTH TO WATER	DEPTH - TOP OF CASING TO WELL SCREEN	LENGTH OF WELL SCREEN	FIELD POINT DESCRIPTION
EFF	Effluent Sample					
EFF-A	Effluent Sample					
EFFLUENT	Effluent Sample					
EFFLUENT-A	Effluent Sample					
F-1	Fuel Line Sampling Point					
F-2	Fuel Line Sampling Point					
F-3	Fuel Line Sampling Point					
F-4	Fuel Line Sampling Point					
INF	Influent Sample					
INF POST	Influent Sample					
INF-POST	Influent Sample					
INF-PRE	Influent Sample					
INFLUENT	Influent Sample					
INFLUENT P	Influent Sample					
INFLUENT-P	Influent Sample					
POST INF	Influent Sample					
S-2	Midway Treatment Sampling Point					
S-3	Midway Treatment Sampling Point					
QCTB	QCTB					
B-1	Remediation/Groundwater Monitoring Well	2.48	17.62			
B-15	Remediation/Groundwater Monitoring Well	4.54	19.71			
B-17	Remediation/Groundwater Monitoring Well	3.88	18.71			
B-18	Remediation/Groundwater Monitoring Well	5.63	12.23			

B-19	Remediation/Groundwater Monitoring Well	4.55	34.37
B-20	Remediation/Groundwater Monitoring Well	3.54	33.68
B-21	Remediation/Groundwater Monitoring Well	4.62	34.52
B-22	Remediation/Groundwater Monitoring Well	7.28	13.28
B-23	Remediation/Groundwater Monitoring Well	5.62	16.61
B-24	Remediation/Groundwater Monitoring Well	5.68	17.94
B-25	Remediation/Groundwater Monitoring Well	4.38	13.76
B-26	Remediation/Groundwater Monitoring Well	3.37	33.44
B-27	Remediation/Groundwater Monitoring Well	7.32	17.23
B-28	Remediation/Groundwater Monitoring Well	6.12	12.91
B-3	Remediation/Groundwater Monitoring Well	6.32	12.96
B-4	Remediation/Groundwater Monitoring Well	4.17	15.73
B-5	Remediation/Groundwater Monitoring Well	3.88	11.32
B-6	Remediation/Groundwater Monitoring Well	2.33	16.04
E-1	Remediation/Groundwater Monitoring Well	5.22	14.01
E-14	Remediation/Groundwater Monitoring Well	5.16	26.49
E-15	Remediation/Groundwater Monitoring Well	8.48	17.28
E-7	Remediation/Groundwater Monitoring Well	5.60	24.08
MW-11	Remediation/Groundwater Monitoring Well	4.51	7.30
MW-6	Remediation/Groundwater Monitoring Well	4.88	8.23
MW-7	Remediation/Groundwater Monitoring Well	4.37	7.95
MW-8	Remediation/Groundwater Monitoring Well	6.19	9.49
GP-1			
GP-10			
GP-11			
GP-2			
GP-3			
GP-4			
GP-5			
GP-6			
GP-7			
GP-8			
GP-9			

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Laboratory Analytical Reports (EDF)

EXPORT ALL EDF DATA FOR THIS CASE TO EXCEL

TITLE	QUARTER	SUBMITTED BY	SUBMIT DATE
THIRD QUARTER 2001 GROUNDWATER MONITORING REPORT...	Q3 2001	DELTA ENVIRONMENTAL	11/1/2001
QUARTERLY GROUNDWATER REMEDIATION REPORT, FOURTH QUARTER 200...	Q4 2001	DELTA ENVIRONMENTAL	1/31/2002
2ND QUARTER 2002 GROUNDWATER MONITORING REPORT...	Q2 2002	DELTA ENVIRONMENTAL	7/23/2002
1ST QUARTER 2002 MONITORING REPORT	Q1 2002	DELTA ENVIRONMENTAL	9/11/2002
3RD QUARTER 2002 MONITORING REPORT	Q3 2002	DELTA ENVIRONMENTAL	10/16/2002
4TH QUARTER 2002 MONITORING REPORT	Q4 2002	DELTA ENVIRONMENTAL	11/27/2002
ADDITIONAL SITE ASSESSMENT REPORT, 4/8/03...	Q4 2002	DELTA ENVIRONMENTAL	4/13/2003*
ADDITIONAL SITE ASSESSMENT REPORT, 4/8/03 - REST OF DATA...	Q4 2002	DELTA ENVIRONMENTAL	4/13/2003*
1ST QUARTER 2003 MONITORING REPORT	Q1 2003	DELTA ENVIRONMENTAL	4/15/2003*
2ND QUARTER 2003 MONITORING REPORT	Q2 2003	DELTA ENVIRONMENTAL	8/6/2003*
3RD QUARTER 2003 MONITORING REPORT - PART 1 OF 2...	Q3 2003	DELTA ENVIRONMENTAL	10/14/2003
3RD QUARTER 2003 MONITORING REPORT - PART 2 OF 2...	Q3 2003	DELTA ENVIRONMENTAL	10/14/2003
4TH QUARTER 2003 MONITORING REPORT	Q4 2003	DELTA ENVIRONMENTAL	1/28/2004*
1ST QUARTER 2004 MONITORING REPORT	Q1 2004	DELTA ENVIRONMENTAL	4/22/2004
2ND QUARTER 2004 MONITORING REPORT	Q2 2004	DELTA ENVIRONMENTAL	7/21/2004
GROUNDWATER MONITORING WELL INSTALLATION REPORT, 5/20/04...	Q2 2004	DELTA ENVIRONMENTAL	8/24/2004
3RD QUARTER 2004 MONITORING REPORT	Q3 2004	DELTA ENVIRONMENTAL	10/19/2004
4TH QUARTER 2004 MONITORING REPORT	Q4 2004	DELTA ENVIRONMENTAL	1/11/2005*
SOIL SAMPLING REPORT, 1/18/05	Q4 2004	DELTA ENVIRONMENTAL	3/1/2005
4TH QUARTER 2004 O&M REPORT - 12/31/04 AIR DATA...	Q4 2004	DELTA ENVIRONMENTAL	3/1/2005
12/04 OC SANITATION DISTRICT MONTHLY REPORT - 12/21/04 DATA ...	Q4 2004	DELTA ENVIRONMENTAL	3/1/2005*
12/04 OC SANITATION DISTRICT MONTHLY REPORT - 12/21/04 DATA ...	Q4 2004	DELTA ENVIRONMENTAL	3/1/2005*
1/05 OC SANITATION DISTRICT MONTHLY REPORT - 1/10/05 DATA...	Q1 2005	DELTA ENVIRONMENTAL	3/11/2005*
1ST QUARTER 2005 O&M REPORT - 2/13/05 AIR DATA ...	Q1 2005	DELTA ENVIRONMENTAL	3/11/2005
2/05 OC SANITATION DISTRICT MONTHLY REPORT - 2/10/05 DATA ...	Q1 2005	DELTA ENVIRONMENTAL	3/11/2005*
FIRST QUARTER 2005 GW DATA	Q1 2005	DELTA ENVIRONMENTAL	4/13/2005
4/12/05 AIR DATA	Q2 2005	DELTA ENVIRONMENTAL	5/4/2005*
4/12/05 SYSTEM GW DATA	Q2 2005	DELTA ENVIRONMENTAL	5/4/2005*
5/15/05 AIR DATA	Q2 2005	DELTA ENVIRONMENTAL	6/7/2005*
5/18/05 SYSTEM GW DATA	Q2 2005	DELTA ENVIRONMENTAL	6/7/2005*
2ND QUARTER 2005 MONITORING REPORT	Q2 2005	DELTA ENVIRONMENTAL	7/13/2005
2ND QUARTER 2005 O&M REPORT - 6/29/05 AIR DATA...	Q2 2005	DELTA ENVIRONMENTAL	7/27/2005*
6/05 OC SANITATION DISTRICT MONTHLY REPORT - 6/29/05 DATA...	Q2 2005	DELTA ENVIRONMENTAL	7/27/2005*
3RD QUARTER 2005 O&M REPORT - 7/12/05 AIR DATA...	Q3 2005	DELTA ENVIRONMENTAL	10/27/2005
3RD QUARTER 2005 O&M REPORT - 7/12/05 SYSTEM GW DATA...	Q3 2005	DELTA ENVIRONMENTAL	10/27/2005
3RD QUARTER 2005 O&M REPORT - 8/17/05 SYSTEM GW DATA...	Q3 2005	DELTA ENVIRONMENTAL	10/27/2005
3RD QUARTER 2005 O&M REPORT - 9/14/05 SYSTEM GW DATA...	Q3 2005	DELTA ENVIRONMENTAL	10/27/2005
3RD QUARTER 2005 MONITORING REPORT	Q3 2005	DELTA ENVIRONMENTAL	10/27/2005
3RD QUARTER 2005 O&M REPORT - 9/30/05 SYSTEM GW DATA....	Q3 2005	DELTA ENVIRONMENTAL	10/27/2005
4TH QUARTER 2005 MONITORING REPORT	Q4 2005	DELTA ENVIRONMENTAL	1/31/2006*
1Q06 MONITORING REPORT	Q1 2006	DELTA ENVIRONMENTAL	5/12/2006
1Q06 MONITORING REPORT	Q1 2006	DELTA ENVIRONMENTAL	5/12/2006
3RD QUARTER 2006 MONITORING REPORT	Q3 2006	DELTA ENVIRONMENTAL	11/6/2006
2ND QUARTER 2007 MONITORING REPORT	Q2 2007	DELTA ENVIRONMENTAL	11/8/2007
2ND QUARTER 2007 MONITORING REPORT	Q2 2007	DELTA ENVIRONMENTAL	11/8/2007
3Q07 MONITORING REPORT V	Q3 2007	DELTA ENVIRONMENTAL	11/12/2007*
4Q07 MONITORING REPORT	Q4 2007	DELTA ENVIRONMENTAL	2/12/2008
4Q07 MONITORING REPORT	Q4 2007	DELTA ENVIRONMENTAL	2/12/2008
4Q07 MONITORING REPORT	Q4 2007	DELTA ENVIRONMENTAL	3/3/2008*
4Q07 MONITORING REPORT	Q4 2007	DELTA ENVIRONMENTAL	3/3/2008*
4Q07 MONITORING REPORT	Q4 2007	DELTA ENVIRONMENTAL	3/3/2008*
4Q07 MONITORING REPORT	Q4 2007	DELTA ENVIRONMENTAL	3/3/2008*
1Q07 MONITORING REPORT	Q1 2007	DELTA ENVIRONMENTAL	3/18/2008*

2Q07 MONITORING REPORT V	Q2 2007	DELTA ENVIRONMENTAL	4/10/2008*	
2Q07 MONITORING REPORT V	Q2 2007	DELTA ENVIRONMENTAL	4/10/2008*	
1Q07 MONITORING REPORT	Q1 2007	DELTA ENVIRONMENTAL	4/10/2008*	
1Q08 QTRLY GW 03/25/08	Q1 2008	DELTA ENVIRONMENTAL	5/19/2008	
1Q08 QTRLY GW 03/26/08	Q1 2008	DELTA ENVIRONMENTAL	5/19/2008	
1Q08 QTRLY GW 03/20/08	Q1 2008	DELTA ENVIRONMENTAL	5/19/2008*	
1Q08 QTRLY SYSTEM GW 03/20/08	Q1 2008	DELTA ENVIRONMENTAL	5/19/2008	
1Q08 QTRLY SYSTEM GW 02/12/08	Q1 2008	DELTA ENVIRONMENTAL	5/19/2008	
1Q08 QTRLY AIR 03/20/08	Q1 2008	DELTA ENVIRONMENTAL	5/19/2008	
1Q08 QTRLY AIR 01/08/08	Q1 2008	DELTA ENVIRONMENTAL	5/20/2008	
1Q08 QTRLY SYSTEM GW 01/09/08	Q1 2008	DELTA ENVIRONMENTAL	5/22/2008	
2Q08 QTRLY GW 06/25/2008	Q2 2008	DELTA ENVIRONMENTAL	7/24/2008	VIEW NARRATIVE DATA
2Q08 QTRLY GW 06/24/2008	Q2 2008	DELTA ENVIRONMENTAL	7/24/2008	VIEW NARRATIVE DATA
2Q08 QTRLY GW 06/23/2008	Q2 2008	DELTA ENVIRONMENTAL	7/24/2008	VIEW NARRATIVE DATA
2Q08 QTRLY SYSTEM GW 05/12/08	Q2 2008	DELTA ENVIRONMENTAL	8/22/2008	VIEW NARRATIVE DATA
2Q08 QTRLY AIR 05/12/08	Q2 2008	DELTA ENVIRONMENTAL	8/22/2008	VIEW NARRATIVE DATA
2Q08 QTRLY SYSTEM GW 06/09/08	Q2 2008	DELTA ENVIRONMENTAL	8/22/2008	VIEW NARRATIVE DATA
2Q08 QTRLY SYSTEM GW 07/07/08	Q2 2008	DELTA ENVIRONMENTAL	8/22/2008	VIEW NARRATIVE DATA
2Q08 QTRLY SYSTEM GW 04/10/08	Q2 2008	DELTA ENVIRONMENTAL	8/22/2008	VIEW NARRATIVE DATA
2Q08 QTRLY AIR 04/10/08	Q2 2008	DELTA ENVIRONMENTAL	8/22/2008	VIEW NARRATIVE DATA
3Q08 GW 09/10-11/08	Q3 2008	DELTA ENVIRONMENTAL	10/31/2008	VIEW NARRATIVE DATA
3Q08 SYSTEM GW 09/04/08	Q3 2008	DELTA ENVIRONMENTAL	10/31/2008	VIEW NARRATIVE DATA
4Q08 GW 12/22/08	Q4 2008	DELTA ENVIRONMENTAL	2/6/2009	VIEW NARRATIVE DATA
1Q09 ISC2697	Q1 2009	DELTA ENVIRONMENTAL	5/8/2009	VIEW NARRATIVE DATA
1Q09 LSD0170	Q2 2009	DELTA ENVIRONMENTAL	5/8/2009	
1Q09 ISD1905	Q2 2009	DELTA ENVIRONMENTAL	5/8/2009	VIEW NARRATIVE DATA
1Q09 ISB3454	Q1 2009	DELTA ENVIRONMENTAL	5/8/2009	VIEW NARRATIVE DATA
1Q09 LSC0032	Q1 2009	DELTA ENVIRONMENTAL	5/8/2009	
2Q09 LSFC146	Q2 2009	DELTA ENVIRONMENTAL	7/30/2009	VIEW NARRATIVE DATA
2Q09 ISF1259	Q2 2009	DELTA ENVIRONMENTAL	7/30/2009	VIEW NARRATIVE DATA
2Q09 ISF1518	Q2 2009	DELTA ENVIRONMENTAL	7/30/2009	VIEW NARRATIVE DATA
3Q09 LSE0126	Q1 2001	DELTA ENVIRONMENTAL	7/30/2009	VIEW NARRATIVE DATA
2Q09 ISF2582	Q2 2009	DELTA ENVIRONMENTAL	7/30/2009	VIEW NARRATIVE DATA
SYSTEM INFLUENT WATER 9/15/09	Q3 2009	STRATUS ENVIRONMENTAL	1/13/2010	VIEW NARRATIVE DATA
4Q09 QM GW	Q4 2009	STRATUS ENVIRONMENTAL	1/13/2010	VIEW NARRATIVE DATA
SYSTEM INFLUENT WATER 10/15/09	Q4 2009	STRATUS ENVIRONMENTAL	1/13/2010	VIEW NARRATIVE DATA
SYSTEM EFFLUENT WATER 10/27/09	Q4 2009	STRATUS ENVIRONMENTAL	1/13/2010	VIEW NARRATIVE DATA
SYSTEM AIR 12/17/09	Q4 2009	STRATUS ENVIRONMENTAL	1/13/2010	
1Q10 QMR ITB1653	Q1 2010	STRATUS ENVIRONMENTAL	4/2/2010	VIEW NARRATIVE DATA

2Q10 QMR ITD2676	Q2 2010	STRATUS ENVIRONMENTAL	6/11/2010	VIEW NARRATIVE DATA
2Q10 QMR IJD2392	Q1 2001	STRATUS ENVIRONMENTAL	6/11/2010	VIEW NARRATIVE DATA
2Q10 QMR LTD0173	Q2 2010	STRATUS ENVIRONMENTAL	6/11/2010	
2Q10 QMR LTE0094	Q2 2010	STRATUS ENVIRONMENTAL	6/11/2010	
2Q 10 EDF LTC0159	Q1 2010	STRATUS ENVIRONMENTAL	6/22/2010*	
2Q 10 EDF LT0243	Q1 2010	STRATUS ENVIRONMENTAL	6/22/2010*	
3Q10 QMR ITG2410	Q3 2010	STRATUS ENVIRONMENTAL	9/13/2010	VIEW NARRATIVE DATA
3Q10 QMR ITG2252	Q3 2010	STRATUS ENVIRONMENTAL	9/13/2010	VIEW NARRATIVE DATA
3Q10 QMR ITG4099	Q3 2010	STRATUS ENVIRONMENTAL	9/13/2010	
3Q10 QMR LTG0162	Q3 2010	STRATUS ENVIRONMENTAL	9/13/2010	
3Q10 QMR LTH0089	Q3 2010	STRATUS ENVIRONMENTAL	9/13/2010	
3Q10 QMR LTG0239	Q3 2010	STRATUS ENVIRONMENTAL	9/13/2010	
3Q10 QMR LTE0097	Q2 2010	STRATUS ENVIRONMENTAL	9/14/2010	
4Q10 QMR ITK1653	Q4 2010	STRATUS ENVIRONMENTAL	12/22/2010	VIEW NARRATIVE DATA
1Q11 QMR IJA1651	Q1 2011	STRATUS ENVIRONMENTAL	3/4/2011	VIEW NARRATIVE DATA
1Q11QMR LTL0158	Q4 2010	STRATUS ENVIRONMENTAL	3/4/2011	
1Q11QMR LUA0072	Q1 2011	STRATUS ENVIRONMENTAL	3/4/2011	
2Q11 QMR	Q2 2011	STRATUS ENVIRONMENTAL	6/3/2011	VIEW NARRATIVE DATA
3Q11 QMR IUG2854	Q3 2011	STRATUS ENVIRONMENTAL	9/8/2011	VIEW NARRATIVE DATA
3Q11 QMR IUG0467	Q3 2011	STRATUS ENVIRONMENTAL	9/8/2011	VIEW NARRATIVE DATA
3Q11 QMR LUG0152	Q3 2011	STRATUS ENVIRONMENTAL	9/8/2011	
3Q11 QMR IUF1160	Q2 2011	STRATUS ENVIRONMENTAL	9/8/2011	VIEW NARRATIVE DATA
3Q11 QMR IUF0136	Q2 2011	STRATUS ENVIRONMENTAL	9/8/2011	
4Q11 QMR - IUJ2727	Q4 2011	STRATUS ENVIRONMENTAL	12/1/2011	VIEW NARRATIVE DATA
4Q11 QMR - IUJ2526	Q4 2011	STRATUS ENVIRONMENTAL	12/1/2011	VIEW NARRATIVE DATA
4Q11 QMR - LUJ0204	Q4 2011	STRATUS ENVIRONMENTAL	12/1/2011	
1Q12 QMR - IVA1171	Q1 2012	STRATUS ENVIRONMENTAL	2/28/2012	VIEW NARRATIVE DATA
1Q12 QMR - LUL0053	Q4 2011	STRATUS ENVIRONMENTAL	2/28/2012	
1Q12 QMR - IUL1150	Q4 2011	STRATUS ENVIRONMENTAL	2/28/2012	VIEW NARRATIVE DATA
1Q12 QMR 340-165-1	Q1 2012	STRATUS ENVIRONMENTAL	2/28/2012	
1Q12 QMR - IVA1359	Q1 2012	STRATUS ENVIRONMENTAL	2/28/2012	VIEW NARRATIVE DATA
2Q12 QMR - 440-3760-1	Q2 2012	STRATUS ENVIRONMENTAL	5/24/2012	VIEW NARRATIVE DATA

2Q12 QMR 440-9159-1	Q2 2012	STRATUS ENVIRONMENTAL	6/6/2012*	VIEW NARRATIVE DATA
QUARTERLY MONITORING REPORT-THIRD QUARTER 2012 440-19135-1...	Q3 2012	STRATUS ENVIRONMENTAL	9/10/2012*	VIEW NARRATIVE DATA
QUARTERLY MONITORING REPORT, FOURTH QUARTER 2012 - 440-28054...	Q4 2012	STRATUS ENVIRONMENTAL	11/28/2012*	VIEW NARRATIVE DATA
QUARTERLY MONITORING REPORT, FOURTH QUARTER 2012 - 440-28280...	Q4 2012	STRATUS ENVIRONMENTAL	11/28/2012*	VIEW NARRATIVE DATA

Well Latitude / Longitude Data (GEO_XY)

EXPORT ALL GEO_XY DATA FOR THIS CASE TO EXCEL

TITLE	SUBMITTED BY	SUBMIT DATE
XY DATA FOR ARCO 1905, 1285, 1912, 1906, 2079, 6071, 0116...	DELTA ENVIRONMENTAL	2/12/2002*

Well Survey Data (GEO_Z)

NO GEO_Z SUBMITTALS FOR THIS FACILITY.

Well Depth to Water Data (GEO_WELL)

EXPORT ALL GEO_WELL DATA FOR THIS CASE TO EXCEL

TITLE	SUBMITTED BY	SUBMIT DATE
1ST QUARTER 2002 DTW INFO	DELTA ENVIRONMENTAL	9/11/2002
2ND QUARTER 2002 DTW INFO	DELTA ENVIRONMENTAL	9/21/2002
4TH QUARTER 2001 DTW INFO	DELTA ENVIRONMENTAL	11/12/2002
3RD QUARTER 2003 GAUGING DATA	DELTA ENVIRONMENTAL	12/10/2003
2ND QUARTER 2003 GAUGING DATA	DELTA ENVIRONMENTAL	12/11/2003
1ST QUARTER 2003 GAUGING DATA	DELTA ENVIRONMENTAL	12/15/2003
4TH QUARTER 2002 GAUGING DATA	DELTA ENVIRONMENTAL	12/16/2003
4Q03-1Q06 GAUGING DATA	DELTA ENVIRONMENTAL	5/25/2006
2DN QUARTER 2006 GAUGING DATA	DELTA ENVIRONMENTAL	8/22/2006
3RD QUARTER 2006 MONITORING REPORT	DELTA ENVIRONMENTAL	11/6/2006
4TH QUARTER 2006 MONITORING REPORT	DELTA ENVIRONMENTAL	3/9/2007
FIRST QUARTER 2007 MONITORING REPORT	DELTA ENVIRONMENTAL	7/16/2007*
2Q07 QUARTERLY GW MONITORING REPORT	DELTA ENVIRONMENTAL	9/19/2007
3Q07 MONITORING REPORT V	DELTA ENVIRONMENTAL	11/12/2007
4Q07 MONITORING REPORT	DELTA ENVIRONMENTAL	2/12/2008
1Q08 MONITORING REPORT	DELTA ENVIRONMENTAL	4/28/2008*
2Q08 MONITORING REPORT	DELTA ENVIRONMENTAL	7/21/2008
4Q08 GW MONITORING REPORT	DELTA ENVIRONMENTAL	2/9/2009
1Q09 DTW	DELTA ENVIRONMENTAL	5/8/2009
2Q09 DTW	DELTA ENVIRONMENTAL	7/30/2009
1Q10 QMR	STRATUS ENVIRONMENTAL	4/2/2010
2Q10 QMR	STRATUS ENVIRONMENTAL	6/14/2010
2Q09 4TH Q GEO WELL	STRATUS ENVIRONMENTAL	6/22/2010*
3Q10 QMR	STRATUS ENVIRONMENTAL	9/13/2010
4Q10 QMR	STRATUS ENVIRONMENTAL	12/22/2010
1Q11 QMR	STRATUS ENVIRONMENTAL	3/4/2011
2Q11 QMR	STRATUS ENVIRONMENTAL	6/3/2011
3Q11 QMR	STRATUS ENVIRONMENTAL	9/8/2011
4Q11 QMR	STRATUS ENVIRONMENTAL	12/1/2011
1Q12 QMR	STRATUS ENVIRONMENTAL	2/28/2012
2Q12 QMR	STRATUS ENVIRONMENTAL	5/24/2012
3Q12 QMR	STRATUS ENVIRONMENTAL	9/10/2012*
QUARTERLY MONITORING REPORT, FOURTH QUARTER 2012...	STRATUS ENVIRONMENTAL	11/28/2012*

Regulatory Activities

* Indicates a revised due date

	ACTION TYPE	ACTION	ACTION DATE	RECEIVED / ISSUE DATE
	OTHER REGULATORY ACTIONS	File review	3/8/2011	3/8/2011
[VIEW DOCS]	ENFORCEMENT/ORDERS	Staff Letter	7/1/2009	7/1/2009
	ENFORCEMENT/ORDERS	Staff Letter	2/8/2005	2/8/2005
	ENFORCEMENT/ORDERS	Staff Letter	10/7/2004	10/7/2004
	ENFORCEMENT/ORDERS	Staff Letter	12/17/2003	12/17/2003
	ENFORCEMENT/ORDERS	Staff Letter	10/21/2003	10/21/2003
	CLEANUP ACTION	In Situ Physical/Chemical Treatment (other than SVE)	3/17/2001	
	ENFORCEMENT/ORDERS	* Historical Enforcement	4/12/1999	4/12/1999
	LEAK ACTION	Leak Discovery	9/19/1985	
	LEAK ACTION	Leak Reported	9/19/1985	
	CLEANUP ACTION	Excavation	9/1/1985	

* DENOTES A SUBMITTAL WAS AUTO-RECEIVED

Individual Well Analytical Data

FIELD POINT NAME	FIELD POINT CLASS	MIN DEPTH TO WATER	MAX DEPTH TO WATER	DEPTH - TOP OF CASING TO WELL SCREEN	LENGTH OF WELL SCREEN	FIELD POINT DESCRIPTION
EFF	Effluent Sample					
EFF-A	Effluent Sample					
EFFLUENT	Effluent Sample					
EFFLUENT-A	Effluent Sample					
P-1	Fuel Line Sampling Point					
P-2	Fuel Line Sampling Point					
P-3	Fuel Line Sampling Point					
P-4	Fuel Line Sampling Point					
INF	Influent Sample					
INF POST	Influent Sample					
INF-POST	Influent Sample					
INF-PRE	Influent Sample					
INFLUENT	Influent Sample					
INFLUENT P	Influent Sample					
INFLUENT-P	Influent Sample					
POST INF	Influent Sample					
E-2	Midway Treatment Sampling Point					
E-3	Midway Treatment Sampling Point					
QCTB	QCTB					
B-1	Remediation/Groundwater Monitoring Well	2.48	17.62			
B-10	Remediation/Groundwater Monitoring Well	4.54	19.71			
B-17	Remediation/Groundwater Monitoring Well	3.88	18.71			
B-18	Remediation/Groundwater Monitoring Well	5.63	12.23			

B-19	Remediation/Groundwater Monitoring Well	4.55	34.37
B-20	Remediation/Groundwater Monitoring Well	3.54	33.68
B-21	Remediation/Groundwater Monitoring Well	4.62	34.52
B-22	Remediation/Groundwater Monitoring Well	7.28	13.28
B-23	Remediation/Groundwater Monitoring Well	5.62	16.81
B-24	Remediation/Groundwater Monitoring Well	5.68	17.94
B-25	Remediation/Groundwater Monitoring Well	4.38	13.76
B-26	Remediation/Groundwater Monitoring Well	3.37	33.44
B-27	Remediation/Groundwater Monitoring Well	7.32	17.23
B-28	Remediation/Groundwater Monitoring Well	6.12	12.91
B-3	Remediation/Groundwater Monitoring Well	6.32	12.96
B-4	Remediation/Groundwater Monitoring Well	4.17	15.73
B-5	Remediation/Groundwater Monitoring Well	3.88	11.32
B-6	Remediation/Groundwater Monitoring Well	2.33	16.04
E-1	Remediation/Groundwater Monitoring Well	5.22	14.01
E-14	Remediation/Groundwater Monitoring Well	5.16	26.49
E-15	Remediation/Groundwater Monitoring Well	6.48	17.28
E-7	Remediation/Groundwater Monitoring Well	5.60	24.08
MW-11	Remediation/Groundwater Monitoring Well	4.51	7.30
MW-6	Remediation/Groundwater Monitoring Well	4.88	8.23
MW-7	Remediation/Groundwater Monitoring Well	4.37	7.95
MW-8	Remediation/Groundwater Monitoring Well	6.19	9.49
GP-1			
GP-10			
GP-11			
GP-2			
GP-3			
GP-4			
GP-5			
GP-6			
GP-7			
GP-8			
GP-9			

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Laboratory Analytical Reports (EDF)

EXPORT ALL EDF DATA FOR THIS CASE TO EXCEL

TITLE	QUARTER	SUBMITTED BY	SUBMIT DATE
THIRD QUARTER 2001 GROUNDWATER MONITORING REPORT...	Q3 2001	DELTA ENVIRONMENTAL	11/1/2001
QUARTERLY GROUNDWATER REMEDIATION REPORT, FOURTH QUARTER 200...	Q4 2001	DELTA ENVIRONMENTAL	1/31/2002
2ND QUARTER 2002 GROUNDWATER MONITORING REPORT...	Q2 2002	DELTA ENVIRONMENTAL	7/23/2002
1ST QUARTER 2002 MONITORING REPORT	Q1 2002	DELTA ENVIRONMENTAL	9/11/2002
3RD QUARTER 2002 MONITORING REPORT	Q3 2002	DELTA ENVIRONMENTAL	10/16/2002
4TH QUARTER 2002 MONITORING REPORT	Q4 2002	DELTA ENVIRONMENTAL	11/27/2002
ADDITIONAL SITE ASSESSMENT REPORT, 4/8/03...	Q4 2002	DELTA ENVIRONMENTAL	4/13/2003*
ADDITIONAL SITE ASSESSMENT REPORT, 4/8/03 - REST OF DATA...	Q4 2002	DELTA ENVIRONMENTAL	4/13/2003*
1ST QUARTER 2003 MONITORING REPORT	Q1 2003	DELTA ENVIRONMENTAL	4/15/2003*
2ND QUARTER 2003 MONITORING REPORT	Q2 2003	DELTA ENVIRONMENTAL	8/6/2003*
3RD QUARTER 2003 MONITORING REPORT - PART 1 OF 2...	Q3 2003	DELTA ENVIRONMENTAL	10/14/2003
3RD QUARTER 2003 MONITORING REPORT - PART 2 OF 2...	Q3 2003	DELTA ENVIRONMENTAL	10/14/2003
4TH QUARTER 2003 MONITORING REPORT	Q4 2003	DELTA ENVIRONMENTAL	1/26/2004*
1ST QUARTER 2004 MONITORING REPORT	Q1 2004	DELTA ENVIRONMENTAL	4/22/2004
2ND QUARTER 2004 MONITORING REPORT	Q2 2004	DELTA ENVIRONMENTAL	7/21/2004
GROUNDWATER MONITORING WELL INSTALLATION REPORT, 5/20/04...	Q2 2004	DELTA ENVIRONMENTAL	8/24/2004
3RD QUARTER 2004 MONITORING REPORT	Q3 2004	DELTA ENVIRONMENTAL	10/19/2004
4TH QUARTER 2004 MONITORING REPORT	Q4 2004	DELTA ENVIRONMENTAL	1/11/2005*
SOIL SAMPLING REPORT, 1/18/05	Q4 2004	DELTA ENVIRONMENTAL	3/1/2005
4TH QUARTER 2004 O&M REPORT - 12/21/04 AIR DATA...	Q4 2004	DELTA ENVIRONMENTAL	3/1/2005
12/04 OC SANITATION DISTRICT MONTHLY REPORT - 12/21/04 DATA ...	Q4 2004	DELTA ENVIRONMENTAL	3/1/2005*
12/04 OC SANITATION DISTRICT MONTHLY REPORT - 12/21/04 DATA ...	Q4 2004	DELTA ENVIRONMENTAL	3/1/2005*
1/05 OC SANITATION DISTRICT MONTHLY REPORT - 1/10/05 DATA...	Q1 2005	DELTA ENVIRONMENTAL	3/11/2005*
1ST QUARTER 2005 O&M REPORT - 2/18/05 AIR DATA...	Q1 2005	DELTA ENVIRONMENTAL	3/11/2005
2/05 OC SANITATION DISTRICT MONTHLY REPORT - 2/18/05 DATA...	Q1 2005	DELTA ENVIRONMENTAL	3/11/2005*
FIRST QUARTER 2005 GW DATA	Q1 2005	DELTA ENVIRONMENTAL	4/13/2005
4/12/05 AIR DATA	Q2 2005	DELTA ENVIRONMENTAL	5/4/2005*
4/12/05 SYSTEM GW DATA	Q2 2005	DELTA ENVIRONMENTAL	5/4/2005*
5/18/05 AIR DATA	Q2 2005	DELTA ENVIRONMENTAL	6/7/2005*
5/18/05 SYSTEM GW DATA	Q2 2005	DELTA ENVIRONMENTAL	6/7/2005*
2ND QUARTER 2005 MONITORING REPORT	Q2 2005	DELTA ENVIRONMENTAL	7/13/2005
2ND QUARTER 2005 O&M REPORT - 6/28/05 AIR DATA...	Q2 2005	DELTA ENVIRONMENTAL	7/27/2005*
6/05 OC SANITATION DISTRICT MONTHLY REPORT - 6/28/05 DATA...	Q2 2005	DELTA ENVIRONMENTAL	7/27/2005*
3RD QUARTER 2005 O&M REPORT - 7/12/05 AIR DATA...	Q3 2005	DELTA ENVIRONMENTAL	10/27/2005
3RD QUARTER 2005 O&M REPORT - 7/12/05 SYSTEM GW DATA...	Q3 2005	DELTA ENVIRONMENTAL	10/27/2005
3RD QUARTER 2005 O&M REPORT - 8/17/05 SYSTEM GW DATA...	Q3 2005	DELTA ENVIRONMENTAL	10/27/2005
3RD QUARTER 2005 O&M REPORT - 9/14/05 SYSTEM GW DATA...	Q3 2005	DELTA ENVIRONMENTAL	10/27/2005
3RD QUARTER 2005 MONITORING REPORT	Q3 2005	DELTA ENVIRONMENTAL	10/27/2005
3RD QUARTER 2005 O&M REPORT - 9/30/05 SYSTEM GW DATA...	Q3 2005	DELTA ENVIRONMENTAL	10/27/2005
4TH QUARTER 2005 MONITORING REPORT	Q4 2005	DELTA ENVIRONMENTAL	1/31/2006*
1Q06 MONITORING REPORT	Q1 2006	DELTA ENVIRONMENTAL	5/12/2006
1Q06 MONITORING REPORT	Q1 2006	DELTA ENVIRONMENTAL	5/12/2006
3RD QUARTER 2006 MONITORING REPORT	Q3 2006	DELTA ENVIRONMENTAL	11/6/2006
2ND QUARTER 2007 MONITORING REPORT	Q2 2007	DELTA ENVIRONMENTAL	11/8/2007
2ND QUARTER 2007 MONITORING REPORT	Q2 2007	DELTA ENVIRONMENTAL	11/8/2007
3Q07 MONITORING REPORT V	Q3 2007	DELTA ENVIRONMENTAL	11/12/2007*
4Q07 MONITORING REPORT	Q4 2007	DELTA ENVIRONMENTAL	2/12/2008
4Q07 MONITORING REPORT	Q4 2007	DELTA ENVIRONMENTAL	2/12/2008
4Q07 MONITORING REPORT	Q4 2007	DELTA ENVIRONMENTAL	3/3/2008*
4Q07 MONITORING REPORT	Q4 2007	DELTA ENVIRONMENTAL	3/3/2008*
4Q07 MONITORING REPORT	Q4 2007	DELTA ENVIRONMENTAL	3/3/2008*
4Q07 MONITORING REPORT	Q4 2007	DELTA ENVIRONMENTAL	3/3/2008*
1Q07 MONITORING REPORT	Q1 2007	DELTA ENVIRONMENTAL	3/18/2008*

2Q07 MONITORING REPORT V	Q2 2007	DELTA ENVIRONMENTAL	4/10/2008*	
2Q07 MONITORING REPORT V	Q2 2007	DELTA ENVIRONMENTAL	4/10/2008*	
1Q07 MONITORING REPORT	Q1 2007	DELTA ENVIRONMENTAL	4/10/2008*	
1Q08 QTRLY GW 03/25/08	Q1 2008	DELTA ENVIRONMENTAL	5/19/2008	
1Q08 QTRLY GW 03/26/08	Q1 2008	DELTA ENVIRONMENTAL	5/19/2008	
1Q08 QTRLY GW 03/20/08	Q1 2008	DELTA ENVIRONMENTAL	5/19/2008*	
1Q08 QTRLY SYSTEM GW 03/20/08	Q1 2008	DELTA ENVIRONMENTAL	5/19/2008	
1Q08 QTRLY SYSTEM GW 02/12/08	Q1 2008	DELTA ENVIRONMENTAL	5/19/2008	
1Q08 QTRLY AIR 03/20/08	Q1 2008	DELTA ENVIRONMENTAL	5/19/2008	
1Q08 QTRLY AIR 01/09/08	Q1 2008	DELTA ENVIRONMENTAL	5/20/2008	
1Q08 QTRLY SYSTEM GW 01/09/08	Q1 2008	DELTA ENVIRONMENTAL	5/22/2008	
2Q08 QTRLY GW 06/25/2008	Q2 2008	DELTA ENVIRONMENTAL	7/24/2008	VIEW NARRATIVE DATA
2Q08 QTRLY GW 06/24/2008	Q2 2008	DELTA ENVIRONMENTAL	7/24/2008	VIEW NARRATIVE DATA
2Q08 QTRLY GW 06/23/2008	Q2 2008	DELTA ENVIRONMENTAL	7/24/2008	VIEW NARRATIVE DATA
2Q08 QTRLY SYSTEM GW 05/12/08	Q2 2008	DELTA ENVIRONMENTAL	8/22/2008	VIEW NARRATIVE DATA
2Q08 QTRLY AIR 05/12/08	Q2 2008	DELTA ENVIRONMENTAL	8/22/2008	VIEW NARRATIVE DATA
2Q08 QTRLY SYSTEM GW 06/09/08	Q2 2008	DELTA ENVIRONMENTAL	8/22/2008	VIEW NARRATIVE DATA
2Q08 QTRLY SYSTEM GW 07/07/08	Q2 2008	DELTA ENVIRONMENTAL	8/22/2008	VIEW NARRATIVE DATA
2Q08 QTRLY SYSTEM GW 04/10/08	Q2 2008	DELTA ENVIRONMENTAL	8/22/2008	VIEW NARRATIVE DATA
2Q08 QTRLY AIR 04/10/08	Q2 2008	DELTA ENVIRONMENTAL	8/22/2008	VIEW NARRATIVE DATA
3Q08 GW 09/10-11/08	Q3 2008	DELTA ENVIRONMENTAL	10/31/2008	VIEW NARRATIVE DATA
3Q08 SYSTEM GW 08/04/05	Q3 2008	DELTA ENVIRONMENTAL	10/31/2008	VIEW NARRATIVE DATA
4Q08 GW 12/22/05	Q4 2008	DELTA ENVIRONMENTAL	2/6/2009	VIEW NARRATIVE DATA
1Q09 ISC2607	Q1 2009	DELTA ENVIRONMENTAL	5/8/2009	VIEW NARRATIVE DATA
1Q09 LSD0170	Q2 2009	DELTA ENVIRONMENTAL	5/8/2009	
1Q09 ISD1605	Q2 2009	DELTA ENVIRONMENTAL	5/8/2009	VIEW NARRATIVE DATA
1Q09 ISB3254	Q1 2009	DELTA ENVIRONMENTAL	5/8/2009	VIEW NARRATIVE DATA
1Q09 LSC0032	Q1 2009	DELTA ENVIRONMENTAL	5/8/2009	
2Q09 LSF0145	Q2 2009	DELTA ENVIRONMENTAL	7/30/2009	VIEW NARRATIVE DATA
2Q09 ISF1259	Q2 2009	DELTA ENVIRONMENTAL	7/30/2009	VIEW NARRATIVE DATA
2Q09 ISE1618	Q2 2009	DELTA ENVIRONMENTAL	7/30/2009	VIEW NARRATIVE DATA
2Q09 LSE0120	Q1 2001	DELTA ENVIRONMENTAL	7/30/2009	VIEW NARRATIVE DATA
2Q09 ISF2552	Q2 2009	DELTA ENVIRONMENTAL	7/30/2009	VIEW NARRATIVE DATA
SYSTEM INFLUENT WATER 9/15/09	Q3 2009	STRATUS ENVIRONMENTAL	1/13/2010	VIEW NARRATIVE DATA
4Q09 QM GW	Q4 2009	STRATUS ENVIRONMENTAL	1/13/2010	VIEW NARRATIVE DATA
SYSTEM INFLUENT WATER 10/15/09	Q4 2009	STRATUS ENVIRONMENTAL	1/13/2010	VIEW NARRATIVE DATA
SYSTEM EFFLUENT WATER 10/27/09	Q4 2009	STRATUS ENVIRONMENTAL	1/13/2010	VIEW NARRATIVE DATA
SYSTEM AIR 12/17/09	Q4 2009	STRATUS ENVIRONMENTAL	1/13/2010	
1Q10 QMR ITB1653	Q1 2010	STRATUS ENVIRONMENTAL	4/2/2010	VIEW NARRATIVE DATA

2Q10 QMR ITD2676	Q2 2010	STRATUS ENVIRONMENTAL	6/11/2010	VIEW NARRATIVE DATA
2Q10 QMR ITD2392	Q1 2001	STRATUS ENVIRONMENTAL	6/11/2010	VIEW NARRATIVE DATA
2Q10 QMR LTD0176	Q2 2010	STRATUS ENVIRONMENTAL	6/11/2010	
2Q10 QMR LTE0096	Q2 2010	STRATUS ENVIRONMENTAL	6/11/2010	
2Q 10 EDF LTG0159	Q1 2010	STRATUS ENVIRONMENTAL	6/22/2010*	
2Q 10 EDF LT0243	Q1 2010	STRATUS ENVIRONMENTAL	6/22/2010*	
3Q10 QMR ITG2410	Q3 2010	STRATUS ENVIRONMENTAL	9/13/2010	VIEW NARRATIVE DATA
3Q10 QMR ITG2262	Q3 2010	STRATUS ENVIRONMENTAL	9/13/2010	VIEW NARRATIVE DATA
3Q10 QMR ITG0089	Q3 2010	STRATUS ENVIRONMENTAL	9/13/2010	
3Q10 QMR LTG0162	Q3 2010	STRATUS ENVIRONMENTAL	9/13/2010	
3Q10 QMR LTH0090	Q3 2010	STRATUS ENVIRONMENTAL	9/13/2010	
3Q10 QMR LTG0089	Q3 2010	STRATUS ENVIRONMENTAL	9/13/2010	
3Q10 QMR LTF0097	Q2 2010	STRATUS ENVIRONMENTAL	9/14/2010	
4Q10 QMR ITK1653	Q4 2010	STRATUS ENVIRONMENTAL	12/22/2010	VIEW NARRATIVE DATA
1Q11 QMR IUA1651	Q1 2011	STRATUS ENVIRONMENTAL	3/4/2011	VIEW NARRATIVE DATA
1Q11QMR LTL0158	Q4 2010	STRATUS ENVIRONMENTAL	3/4/2011	
1Q11QMR LUA0972	Q1 2011	STRATUS ENVIRONMENTAL	3/4/2011	
2Q11 QMR	Q2 2011	STRATUS ENVIRONMENTAL	6/3/2011	VIEW NARRATIVE DATA
3Q11 QMR IUG2604	Q3 2011	STRATUS ENVIRONMENTAL	9/8/2011	VIEW NARRATIVE DATA
3Q11 QMR IUG0427	Q3 2011	STRATUS ENVIRONMENTAL	9/8/2011	VIEW NARRATIVE DATA
3Q11 QMR LUG0152	Q3 2011	STRATUS ENVIRONMENTAL	9/8/2011	
3Q11 QMR IUE1180	Q2 2011	STRATUS ENVIRONMENTAL	9/8/2011	VIEW NARRATIVE DATA
3Q11 QMR IUF0132	Q2 2011	STRATUS ENVIRONMENTAL	9/8/2011	
4Q11 QMR - IUJ2727	Q4 2011	STRATUS ENVIRONMENTAL	12/1/2011	VIEW NARRATIVE DATA
4Q11 QMR - IUJ2526	Q4 2011	STRATUS ENVIRONMENTAL	12/1/2011	VIEW NARRATIVE DATA
4Q11 QMR - LUJ0203	Q4 2011	STRATUS ENVIRONMENTAL	12/1/2011	
1Q12 QMR - IVA1171	Q1 2012	STRATUS ENVIRONMENTAL	2/28/2012	VIEW NARRATIVE DATA
1Q12 QMR - LUL0053	Q4 2011	STRATUS ENVIRONMENTAL	2/28/2012	
1Q12 QMR - IUL1150	Q4 2011	STRATUS ENVIRONMENTAL	2/28/2012	VIEW NARRATIVE DATA
1Q12 QMR 340-150-1	Q1 2012	STRATUS ENVIRONMENTAL	2/28/2012	
1Q12 QMR - IVA1380	Q1 2012	STRATUS ENVIRONMENTAL	2/28/2012	VIEW NARRATIVE DATA
2Q12 QMR - 440-8700-1	Q2 2012	STRATUS ENVIRONMENTAL	5/24/2012	VIEW NARRATIVE DATA

2Q12 QMR 440-9150-1	Q2 2012	STRATUS ENVIRONMENTAL	8/8/2012*	VIEW NARRATIVE DATA
QUARTERLY MONITORING REPORT-THIRD QUARTER 2012 440-19136-1...	Q3 2012	STRATUS ENVIRONMENTAL	9/10/2012*	VIEW NARRATIVE DATA
QUARTERLY MONITORING REPORT, FOURTH QUARTER 2012 - 440-26934...	Q4 2012	STRATUS ENVIRONMENTAL	11/28/2012*	VIEW NARRATIVE DATA
QUARTERLY MONITORING REPORT, FOURTH QUARTER 2012 - 440-26260...	Q4 2012	STRATUS ENVIRONMENTAL	11/28/2012*	VIEW NARRATIVE DATA

Well Latitude / Longitude Data (GEO_XY)

EXPORT ALL GEO_XY DATA FOR THIS CASE TO EXCEL

TITLE	SUBMITTED BY	SUBMIT DATE
XY DATA FOR ARCO 1806, 1286, 1812, 1998, 3079, 6071, 8110...	DELTA ENVIRONMENTAL	2/12/2002*

Well Survey Data (GEO_Z)

NO GEO_Z SUBMITTALS FOR THIS FACILITY.

Well Depth to Water Data (GEO_WELL)

EXPORT ALL GEO_WELL DATA FOR THIS CASE TO EXCEL

TITLE	SUBMITTED BY	SUBMIT DATE
1ST QUARTER 2002 DTW INFO	DELTA ENVIRONMENTAL	9/11/2002
2ND QUARTER 2002 DTW INFO	DELTA ENVIRONMENTAL	9/21/2002
4TH QUARTER 2001 DTW INFO	DELTA ENVIRONMENTAL	11/12/2002
3RD QUARTER 2003 GAUGING DATA	DELTA ENVIRONMENTAL	12/10/2003
2ND QUARTER 2003 GAUGING DATA	DELTA ENVIRONMENTAL	12/11/2003
1ST QUARTER 2003 GAUGING DATA	DELTA ENVIRONMENTAL	12/15/2003
4TH QUARTER 2002 GAUGING DATA	DELTA ENVIRONMENTAL	12/16/2003
4Q03-1Q06 GAUGING DATA	DELTA ENVIRONMENTAL	5/25/2006
2DN QUARTER 2006 GAUGING DATA	DELTA ENVIRONMENTAL	8/22/2006
3RD QUARTER 2006 MONITORING REPORT	DELTA ENVIRONMENTAL	11/6/2006
4TH QUARTER 2006 MONITORING REPORT	DELTA ENVIRONMENTAL	3/9/2007
FIRST QUARTER 2007 MONITORING REPORT	DELTA ENVIRONMENTAL	7/16/2007*
2Q07 QUARTERLY GW MONITORING REPORT	DELTA ENVIRONMENTAL	9/19/2007
3Q07 MONITORING REPORT V	DELTA ENVIRONMENTAL	11/12/2007
4Q07 MONITORING REPORT	DELTA ENVIRONMENTAL	2/12/2008
1Q08 MONITORING REPORT	DELTA ENVIRONMENTAL	4/28/2008*
2Q08 MONITORING REPORT	DELTA ENVIRONMENTAL	7/21/2008
4Q08 GW MONITORING REPORT	DELTA ENVIRONMENTAL	2/9/2009
1Q09 DTW	DELTA ENVIRONMENTAL	5/8/2009
2Q09 DTW	DELTA ENVIRONMENTAL	7/30/2009
1Q10 QMR	STRATUS ENVIRONMENTAL	4/2/2010
2Q10 QMR	STRATUS ENVIRONMENTAL	6/14/2010
2009 4TH Q GEO WELL	STRATUS ENVIRONMENTAL	6/22/2010*
3Q10 QMR	STRATUS ENVIRONMENTAL	9/13/2010
4Q10 QMR	STRATUS ENVIRONMENTAL	12/22/2010
1Q11 QMR	STRATUS ENVIRONMENTAL	3/4/2011
2Q11 QMR	STRATUS ENVIRONMENTAL	6/3/2011
3Q11 QMR	STRATUS ENVIRONMENTAL	9/8/2011
4Q11 QMR	STRATUS ENVIRONMENTAL	12/1/2011
1Q12 QMR	STRATUS ENVIRONMENTAL	2/28/2012
2Q12 QMR	STRATUS ENVIRONMENTAL	5/24/2012
3Q12 QMR	STRATUS ENVIRONMENTAL	9/10/2012*
QUARTERLY MONITORING REPORT, FOURTH QUARTER 2012...	STRATUS ENVIRONMENTAL	11/28/2012*

* DENOTES A SUBMITTAL WAS AUTO-RECEIVED

Site Maps and Boring Logs (GEO_MAP and GEO_BORE)

TITLE	SUBMITTED BY	SUBMITTED	SIZE
GEO_MAP	DELTA ENVIRONMENTAL (CONTRACTOR)	6/21/2005	41 KB
GEO_MAP	DELTA ENVIRONMENTAL (CONTRACTOR)	6/21/2005*	30 KB
GEO_MAP	DELTA ENVIRONMENTAL (CONTRACTOR)	9/19/2005	26 KB
GEO_MAP	DELTA ENVIRONMENTAL (CONTRACTOR)	9/19/2005	26 KB
B1 (B-1)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	32 KB
B3 (B-3)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	33 KB
B4 (B-4)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	33 KB

B5 (B-5)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	31 KB
B5 (B-5)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	31 KB
B6 (B-6)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	31 KB
B16 (B-16)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	45 KB
B17 (B-17)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	47 KB
B18 (B-18)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	47 KB
B19 (B-19)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	86 KB
B20 (B-20)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	88 KB
B21 (B-21)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	87 KB
B22 (B-22)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	42 KB
B22 (B-22)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	42 KB
B23 (B-23)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	44 KB
B25 (B-23)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	44 KB
B24 (B-24)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	43 KB
B25 (B-25)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	40 KB
B26 (B-26)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	85 KB
B27 (B-27)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	40 KB
MW11 (MW-11)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	84 KB
MW6 (MW-6)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	53 KB
B10-MW6 (MW-6)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	53 KB
B19-MW7 (MW-7)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	50 KB
B20-MW8 (MW-8)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	30 KB
B1 (B-1)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	32 KB
B3 (B-3)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	33 KB
B4 (B-4)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	33 KB
B5 (B-5)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	31 KB
B6 (B-6)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	31 KB
B16 (B-16)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	45 KB
B17 (B-17)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	47 KB
B18 (B-18)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	47 KB
B22 (B-22)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	42 KB
B23 (B-23)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	44 KB
B25 (B-25)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	40 KB
B27 (B-27)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	40 KB
B26 (B-26)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	85 KB
B27 (B-27)	DELTA ENVIRONMENTAL (CONTRACTOR)	6/18/2009	40 KB

Site Documents

TITLE	TYPE	SUBMITTED BY	DOCUMENT DATE	SIZE
CALIBRATION REPORT	OTHER REPORT / DOCUMENT	DELTA ENVIRONMENTAL (CONTRACTOR)	9/28/2009*	368 KB
QUARTERLY GROUNDWATER MONITORING REQUIREMENTS	STAFF LETTER	(REGULATOR)	7/1/2009	
SOIL DISPOSAL LETTER	CORRESPONDENCE - OTHER	DELTA ENVIRONMENTAL (CONTRACTOR)	10/29/2007	3,402 KB
SOIL MONITORING RECORDS, 11/14/05	REPORTS - OTHER	DELTA ENVIRONMENTAL (CONTRACTOR)	11/28/2005*	464 KB
4Q04 QMR	REPORTS - OTHER	DELTA ENVIRONMENTAL (CONTRACTOR)	2/22/2005	5,059 KB
SOIL SAMPLING REPORT, 1/18/05	REPORTS - OTHER	DELTA ENVIRONMENTAL (CONTRACTOR)	2/22/2005	880 KB

Monitoring Reports

TITLE	TYPE	SUBMITTED BY	DOCUMENT DATE	SIZE
QUARTERLY GROUNDWATER MONITORING AND REMEDIATION REPORT, FOURTH QUARTER 2012	MONITORING REPORT - QUARTERLY	STRATUS ENVIRONMENTAL (CONTRACTOR)	11/28/2012*	6,085 KB
3Q12 QMR	MONITORING REPORT - QUARTERLY	STRATUS ENVIRONMENTAL (CONTRACTOR)	9/10/2012*	4,294 KB
2Q12 QMR	MONITORING REPORT - QUARTERLY	STRATUS ENVIRONMENTAL (CONTRACTOR)	5/24/2012	6,974 KB
1Q12 QMR	MONITORING REPORT - QUARTERLY	STRATUS ENVIRONMENTAL (CONTRACTOR)	2/28/2012	6,759 KB
4Q11 QMR	MONITORING REPORT - QUARTERLY	STRATUS ENVIRONMENTAL (CONTRACTOR)	12/1/2011	6,180 KB
3Q11 QMR	MONITORING REPORT - QUARTERLY	STRATUS ENVIRONMENTAL (CONTRACTOR)	9/9/2011	6,717 KB
2Q11 QMR	MONITORING REPORT - QUARTERLY	STRATUS ENVIRONMENTAL (CONTRACTOR)	6/3/2011	5,605 KB
1Q11 QMR	MONITORING REPORT - QUARTERLY	STRATUS ENVIRONMENTAL (CONTRACTOR)	3/4/2011	5,156 KB
4Q10 QMR	MONITORING REPORT - QUARTERLY	STRATUS ENVIRONMENTAL (CONTRACTOR)	12/22/2010	5,430 KB
3Q10 QMR	MONITORING REPORT - QUARTERLY	STRATUS ENVIRONMENTAL (CONTRACTOR)	9/10/2010	6,852 KB
2Q10 QMR	MONITORING REPORT - QUARTERLY	STRATUS ENVIRONMENTAL (CONTRACTOR)	6/11/2010*	6,484 KB
1Q10 QMR REVISED	MONITORING REPORT - QUARTERLY	STRATUS ENVIRONMENTAL (CONTRACTOR)	4/2/2010	4,752 KB
1Q10 QMR	MONITORING REPORT - QUARTERLY	STRATUS ENVIRONMENTAL (CONTRACTOR)	4/2/2010*	4,636 KB
QUARTERLY MONITORING & REMEDIATION REPORT - FOURTH QUARTER 2009	MONITORING REPORT - QUARTERLY	STRATUS ENVIRONMENTAL (CONTRACTOR)	1/4/2010	9,124 KB
CA 1912.091113 RP - 3Q09 QMR	MONITORING REPORT - QUARTERLY	DELTA ENVIRONMENTAL (CONTRACTOR)	11/13/2009	4,607 KB
2Q09 GWM	MONITORING REPORT - QUARTERLY	DELTA ENVIRONMENTAL (CONTRACTOR)	7/30/2009	6,702 KB
1912 GWM	MONITORING REPORT - QUARTERLY	DELTA ENVIRONMENTAL (CONTRACTOR)	5/8/2009	6,248 KB
4Q08 GW MONITORING REPORT	MONITORING REPORT - QUARTERLY	DELTA ENVIRONMENTAL (CONTRACTOR)	2/6/2009	3,630 KB
3Q08 GW MONITORING REPORT	MONITORING REPORT - QUARTERLY	DELTA ENVIRONMENTAL (CONTRACTOR)	11/3/2008	9,586 KB
2Q08 MONITORING REPORT (3OF4)	MONITORING REPORT - QUARTERLY	DELTA ENVIRONMENTAL (CONTRACTOR)	8/22/2008	7,285 KB
2Q08 MONITORING REPORT 1OF4)	MONITORING REPORT - QUARTERLY	DELTA ENVIRONMENTAL (CONTRACTOR)	8/22/2008	732 KB
2Q08 MONITORING REPORT (4OF 4)	MONITORING REPORT - QUARTERLY	DELTA ENVIRONMENTAL (CONTRACTOR)	8/22/2008	1,834 KB
2Q08 MONITORING REPORT (2OF4)	MONITORING REPORT - QUARTERLY	DELTA ENVIRONMENTAL (CONTRACTOR)	8/22/2008	8,786 KB
CA 1912.080515 RP-1Q08 QMR	MONITORING REPORT - QUARTERLY	DELTA ENVIRONMENTAL (CONTRACTOR)	5/15/2008*	11,506 KB
FIRST QUARTER 2007 QUARTERLY MONIRING REPORT	MONITORING REPORT - QUARTERLY	DELTA ENVIRONMENTAL (CONTRACTOR)	4/27/2007	5,627 KB
4TH QUARTER 2006 MONITORING REPORT	MONITORING REPORT - QUARTERLY	DELTA ENVIRONMENTAL (CONTRACTOR)	2/8/2007	4,425 KB
3RD QUARTER 2006 MONITORING REPORT	MONITORING REPORT - QUARTERLY	DELTA ENVIRONMENTAL (CONTRACTOR)	11/3/2006	5,041 KB

2ND QUARTER 2006 MONITORING REPORT	MONITORING REPORT - QUARTERLY	DELTA ENVIRONMENTAL (CONTRACTOR)	8/2/2006	5,014 KB
1Q06 MONITORING REPORT	MONITORING REPORT - QUARTERLY	DELTA ENVIRONMENTAL (CONTRACTOR)	5/11/2006	4,908 KB
4TH QUARTER 2005 MONITORING REPORT	MONITORING REPORT - QUARTERLY	DELTA ENVIRONMENTAL (CONTRACTOR)	2/15/2006	5,791 KB
3RD QUARTER 2005 MONITORING REPORT	MONITORING REPORT - QUARTERLY	DELTA ENVIRONMENTAL (CONTRACTOR)	11/2/2005	5,174 KB
SECOND QUARTER 2005 QMR	MONITORING REPORT - QUARTERLY	DELTA ENVIRONMENTAL (CONTRACTOR)	8/9/2005	5,298 KB
FIRST QUARTER 2005 QMR	MONITORING REPORT - QUARTERLY	DELTA ENVIRONMENTAL (CONTRACTOR)	5/5/2005	4,593 KB

STRATUS
ENVIRONMENTAL, INC

5412 Bolsa Avenue, Suite G
Huntington Beach, California 92649
(714) 230-2495 ~ Fax: (714) 230-2496

November 28, 2012

Ms. Tamara Escobedo
Orange County Health Care Agency
Environmental Health Division
1241 East Dyer Road, Suite 120
Santa Ana, California 92705

Re: Quarterly Groundwater Monitoring and Remediation Report, Fourth Quarter 2012
ARCO Facility No. 1912
18480 Brookhurst Street, Fountain Valley, California
OCLOP Case No. 85UT085

Dear Ms. Escobedo:

Stratus Environmental, Inc. (Stratus) is submitting the Quarterly Groundwater Monitoring and Remediation Report, Fourth Quarter 2012, on behalf of Atlantic Richfield Company for ARCO Facility No. 1912, located at 18480 Brookhurst Street, Fountain Valley, California

If you have any questions, please contact Charles Carmel of Atlantic Richfield Company at (925) 275-3803.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Fabio M. Minervini

Fabio M. Minervini
Project Manager
California Professional Geologist No. 7861

PROFESSIONAL GEOLOGIST
FABIO M. MINERVINI
No. 7861
EXPIRES 05/14
STATE OF CALIFORNIA

Attachment: Quarterly Monitoring and Remediation Report, Fourth Quarter 2012

cc: Mr. Charles Carmel, Atlantic Richfield Company (via Enfos)
Ms. Valerie Jahn-Bull, RWQCB-SA

ATLANTIC RICHFIELD COMPANY QUARTERLY MONITORING AND REMEDIATION REPORT
FOURTH QUARTER 2012
NOVEMBER 28, 2012

Facility No.:	1912	Address:	18480 Brookhurst Street, Fountain Valley, CA (Figure 1)
Atlantic Richfield Company Environmental Manager:			Charles Carmel / (925) 275-3803 / charles.carmel@bp.com
Consulting Company / Contact Person:			Stratus Environmental / Fabio M. Minervini / (714) 622-3928 / fminervini@stratusinc.net
Primary Agency / Contact Person / Regulatory ID No.:			Orange County Local Oversight Program (OCLOP) / Tamara Escobedo / 85UT085
Other Agencies to Receive Copies:			California Regional Water Quality Control Board – Santa Ana Region (CRWQCB-SA) / Valerie Jahn-Bull

WORK PERFORMED DURING THIS QUARTERLY REPORTING PERIOD (Fourth Quarter 2012):

1. Stratus Environmental, Inc. (Stratus) submitted the *Quarterly Monitoring and Remediation Report – Third Quarter 2012,* dated September 10, 2012, to the OCLOP.

2. Continued operation and maintenance of the groundwater extraction (GWE) system. During this reporting period, the GWE system recovered, treated, and discharged 39,277 gallons of groundwater. A detailed remediation system summary and historical operational data are included as Attachment A.

3. Doulos Environmental, Inc. conducted quarterly groundwater monitoring and sampling activities on October 15 and 16, 2012 (field data sheets are included as Attachment B). During this event, 23 groundwater monitoring wells (B-1, B-3 through B-6, B-16 through B-28, E-1, E-7, E-14, MW-6, and MW-7) were gauged and sampled. Due to offsite landscaping, monitoring well MW-8 could not be located and subsequently not gauged or sampled. The GWE system was operating at the time of the groundwater monitoring event; therefore, wells connected to the system (B-1, B-6, B-17, B-23, and B-24) were no-purge sampled with a disposable bailer. The rest of the upper water-bearing zone wells were purged using a vacuum truck and sampled with a disposable bailer. Lower water-bearing zone wells B-19, B-20, B-21, and B-26 were purged and sampled with a peristaltic pump utilizing low-flow methodology.

   All groundwater samples were analyzed for gasoline range organics (GRO) according to Environmental Protection Agency (EPA) Method 8015 Modified and for benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl *tert*-butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl *tert*-butyl ether (ETBE), *tert*-amyl methyl ether (TAME), *tert*-butanol (TBA), and ethanol (EtOH) according to EPA Method 8260B. Groundwater elevation contours, groundwater analyses, and isoconcentration maps for GRO, benzene, MTBE, and TBA for the upper water-bearing zone wells are included as Figures 2 through 7. Groundwater elevations and analyses map for the lower water-bearing zone wells is included as Figure 8. Current groundwater monitoring data, historical groundwater gauging data, and historical groundwater analytical summary are presented in Tables 1 through 3, respectively. Monitoring schedule and well construction details are presented in Table 4. A copy of the laboratory analytical report with chain-of-custody documentation is included in Attachment C. Water generated during groundwater sampling (295 gallons) was transported to DeMenno/Kerdoon located in Compton, California, for disposal. The waste manifests for the water disposal are included in Attachment D.

4. Submitted reports to the Orange County Sanitation District (OCSD) documenting the volume of treated groundwater discharged to the sewer system on a monthly basis and the treatment system effluent sample analytical results on a quarterly basis.

WORK PROPOSED FOR THE NEXT QUARTERLY REPORTING PERIOD (First Quarter 2013):

1. Submit the fourth quarter 2012 quarterly monitoring and remediation report to the OCLOP within 45 days following the fourth quarter 2012 groundwater monitoring and sampling event.

2. Continue operation and maintenance of the GWE system.

3. Conduct the first quarter 2013 quarterly groundwater monitoring and sampling.

4. Submit reports to OCSD documenting the volume of treated groundwater discharged to the sewer system on a monthly basis and the treatment system effluent sample analytical results on a quarterly basis.

ATLANTIC RICHFIELD COMPANY QUARTERLY MONITORING AND REMEDIATION REPORT
FOURTH QUARTER 2012
NOVEMBER 28, 2012

Facility No.:	1912	Address:	18480 Brookhurst Street, Fountain Valley, CA (Figure 1)		
Current Phase of Project:		Groundwater Monitoring / Remediation (GWE)			
Frequency of Monitoring:		GW – Quarterly; Discharge Water – Weekly			
Frequency of Sampling:		GW – Quarterly; Discharge Water – Quarterly			
Permits for Discharge:		Vapor/Air: SCAQMD Permit No. F64692 System Water: OCSD SPDP Permit No. 3-118			
Approximate Depth to Groundwater:		5.04 – 9.28 feet (Upper Groundwater Zone) 9.54 – 10.78 feet (Lower Groundwater Zone)			
Groundwater Flow Direction and Gradient (Upper Zone):		Southerly	(Direction)	Variable Influenced by pumping	(Magnitude)
Groundwater Flow Direction and Gradient (Lower Zone):		Variable	(Direction)	Variable	(Magnitude)

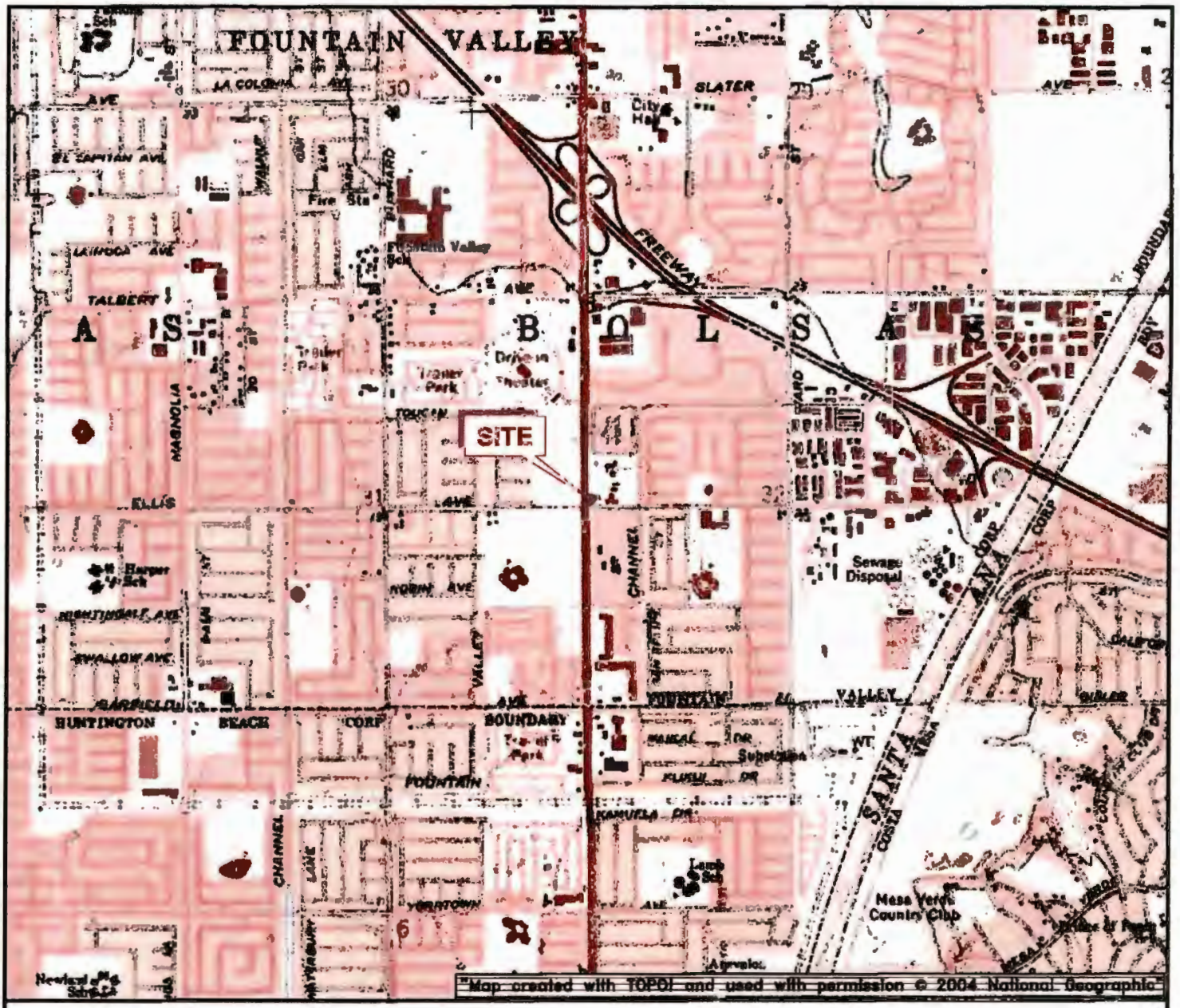
DISCUSSION:

Groundwater conditions during the fourth quarter 2012 remained generally consistent with the recent quarters. The maximum concentration of dissolved GRO (990 µg/L) was detected in well B-1. Benzene was only detected in wells B-1 (32 µg/L) and B-6 (53 µg/L). The maximum concentrations of dissolved MTBE (90 µg/L) and TBA (21,000 µg/L) were detected in off-site well B-25, although TBA was also detected at a concentration of 21,000 µg/L in on-site well B-4. TBA was detected in 13 of the 19 wells completed in the upper water-bearing zone, at concentrations ranging from 150 µg/L (E-7) to 21,000 µg/L (B-4 and B-25); these values remain within the historical range of TBA concentrations for the site.

In order to evaluate the vertical distribution of dissolved hydrocarbons and fuel oxygenates in groundwater beneath the site, four groundwater monitoring wells were completed in a lower water-bearing zone (Talbert Aquifer; referred to as the lower groundwater zone). These wells (B-19, B-20, B-21, and B-26) are screened from approximately 60 to 65 feet below ground surface. During the fourth quarter 2012, GRO, BTEX, MTBE, DIPE, ETBE, TAME, TBA, and EtOH were not detected in the groundwater samples collected from the wells screened within the lower water-bearing zone for the twenty-eighth consecutive monitoring event.

ATTACHMENTS:

Figure 1	Site Location Map
Figure 2	Groundwater Elevation Contour Map – Upper Zone
Figure 3	Groundwater Analyses Map – Upper Zone
Figure 4	Dissolved GRO Isoconcentration Map – Upper Zone
Figure 5	Dissolved Benzene Isoconcentration Map – Upper Zone
Figure 6	Dissolved MTBE Isoconcentration Map – Upper Zone
Figure 7	Dissolved TBA Isoconcentration Map – Upper Zone
Figure 8	Groundwater Elevations and Analyses Map -Lower Zone
Table 1	Current Groundwater Monitoring Data
Table 2	Historical Groundwater Gauging Data
Table 3	Historical Groundwater Analytical Summary
Table 4	Monitoring Schedule and Well Construction Details
Attachment A	Remediation System Summary
Attachment B	Field Data Sheets
Attachment C	Laboratory Analytical Reports and Chain-of-Custody Documentation
Attachment D	Waste Disposal Documentation





QUADRANGLE LOCATION

Reference: Terrain Navigator—U.S.G.S., 1981, Newport Beach, California Quadrangle. 7.5-Minute Topographic Map.



APPROXIMATE SCALE (FEET)

STRATUS ENVIRONMENTAL, INC
5412 BOLSA AVENUE, SUITE G
HUNTINGTON BEACH, CALIFORNIA
PHONE: (714) 230-2495

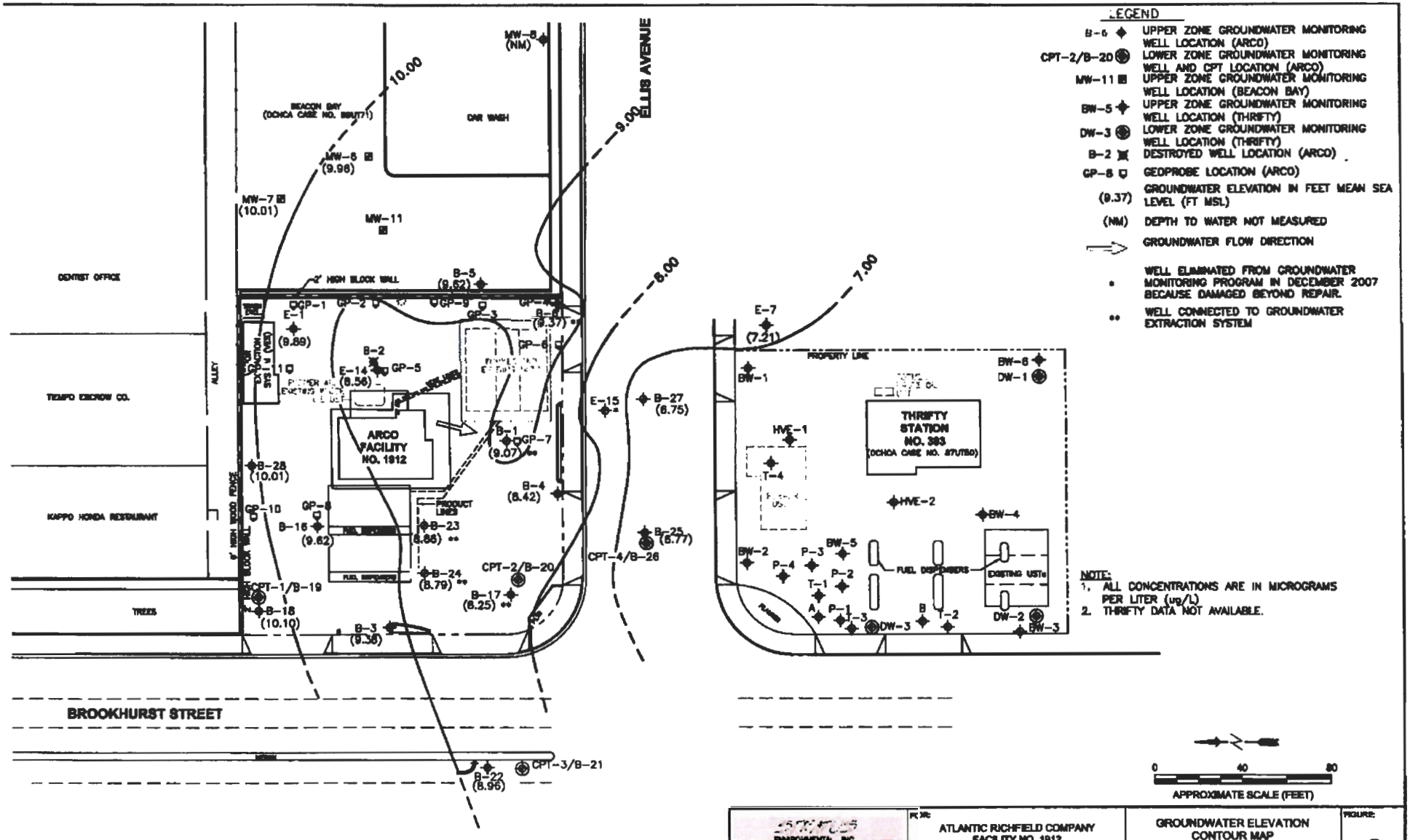
FOR:
ATLANTIC RICHFIELD COMPANY
STATION NO. 1912
18480 BROOKHURST STREET
FOUNTAIN VALLEY, CALIFORNIA

SITE LOCATION MAP

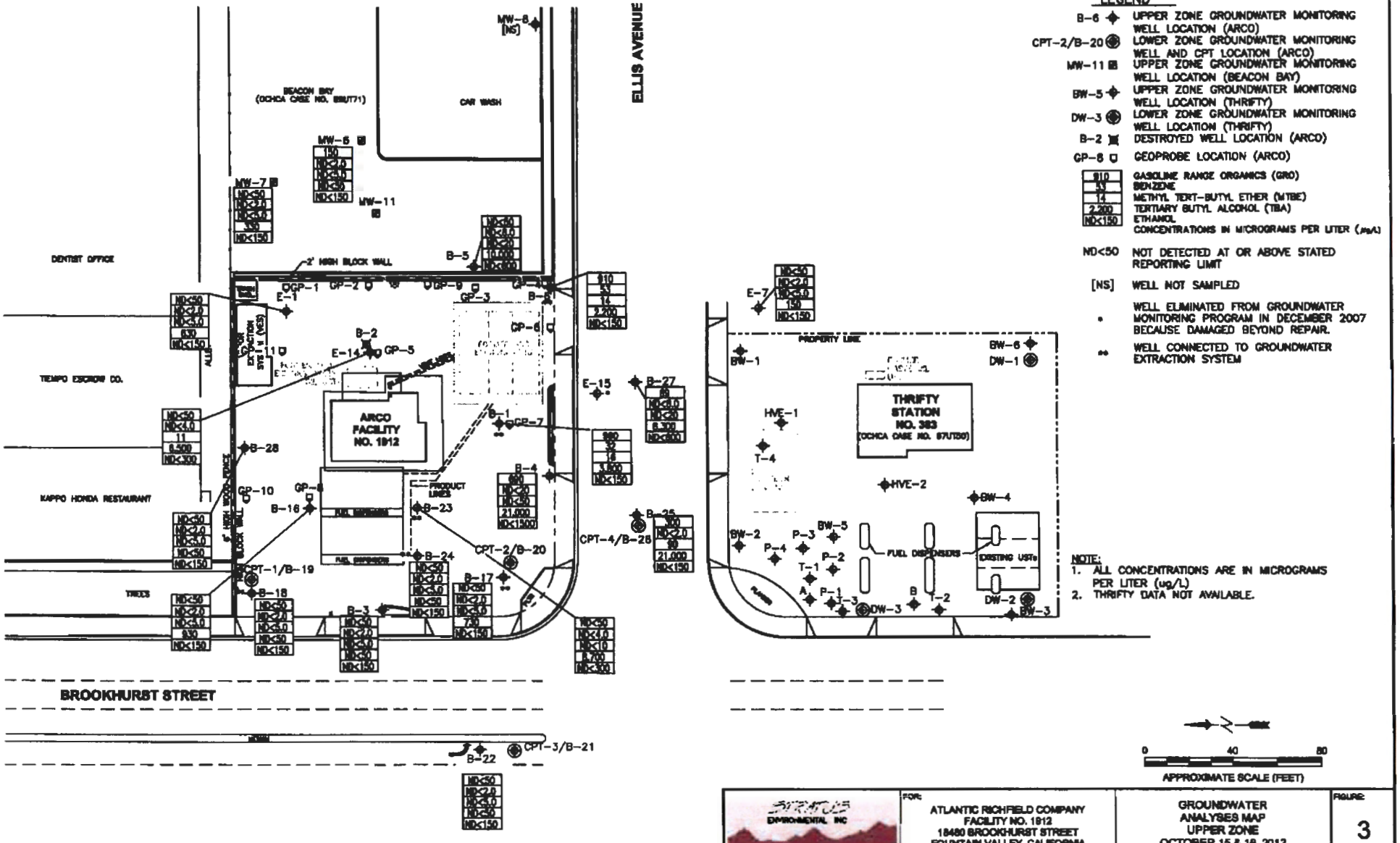
FIGURE: 1

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
1400-1912	R. ERDMAN	CHECKEDBY	APPROVEDBY	04/28/10

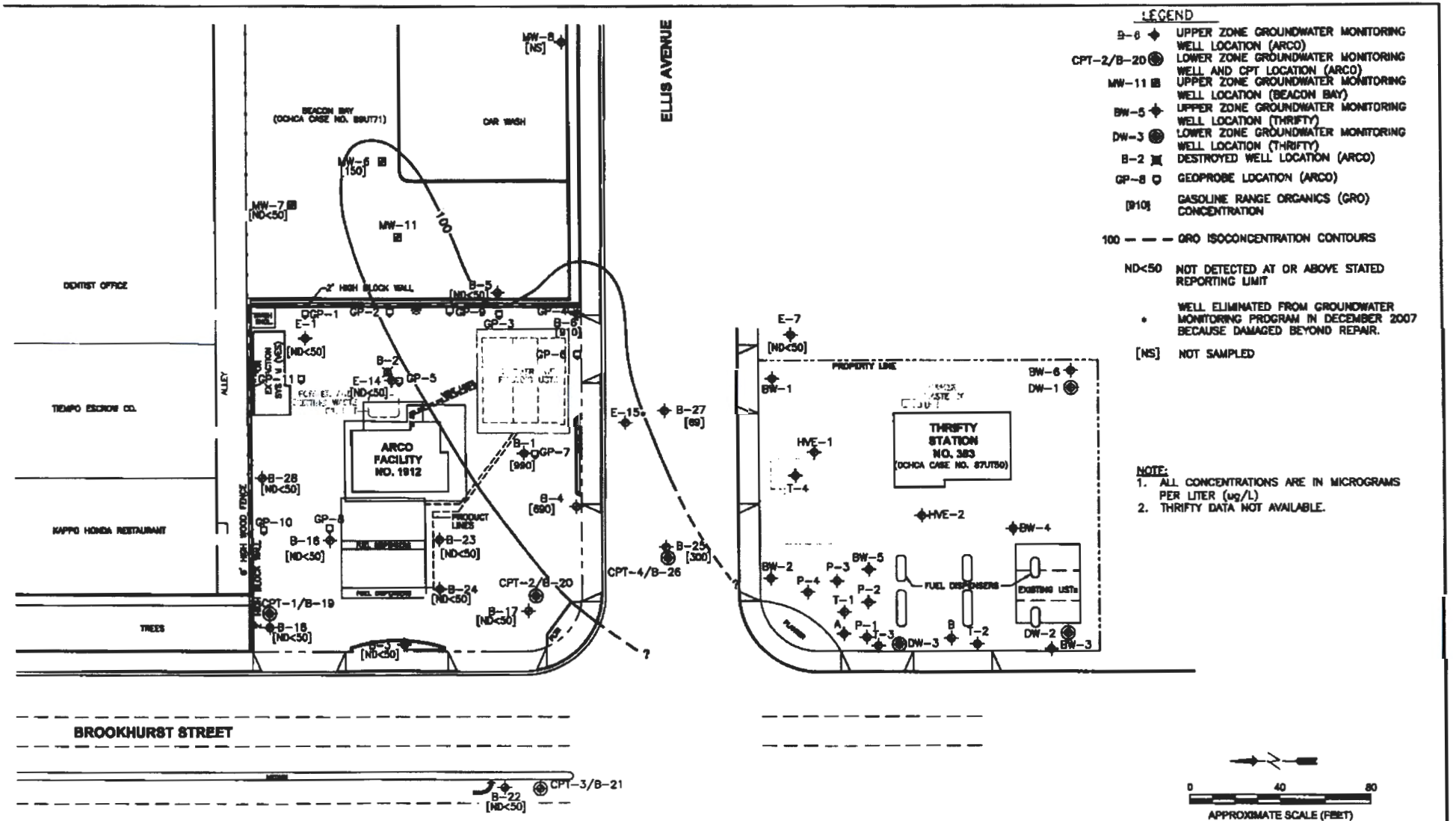
FILEPATH:T:\Projects\ARCO, BP\Other BP Sites\1912\CAD\SLM\1912-SLM.dwg | Layout Tab: SLM | Drafter: rerdman



ENVIRONMENTAL, INC. 5412 SOLSA AVENUE, SUITE G HUNTINGTON BEACH, CALIFORNIA PHONE: (714) 230-6488	PROJECT: ATLANTIC RICHFIELD COMPANY FACILITY NO. 1912 18480 BROOKHURST STREET FOUNTAIN VALLEY, CALIFORNIA	GROUNDWATER ELEVATION CONTOUR MAP UPPER ZONE OCTOBER 15 & 16, 2012		FIGURE: 2
	JOB NUMBER: 1400-1912	DRAWN BY: R. BRONAR	CHECKED BY: F. MINERVINI	APPROVED BY: F. MINERVINI	DATE: 11/2012



STANTEC ENVIRONMENTAL INC 5112 BOLSA AVENUE, SUITE G HUNTINGTON BEACH, CALIFORNIA PHONE: (714) 230-3486	FOR: ATLANTIC RICHFIELD COMPANY FACILITY NO. 1912 18480 BROOKHURST STREET FOUNTAIN VALLEY, CALIFORNIA		GROUNDWATER ANALYSES MAP UPPER ZONE OCTOBER 15 & 16, 2012		FIGURE: 3
	JOB NUMBER: 1400-1912	DRAWN BY: R. BRDMAN	CHECKED BY: F. MINERVINI	APPROVED BY: F. MINERVINI	DATE: 11/30/12



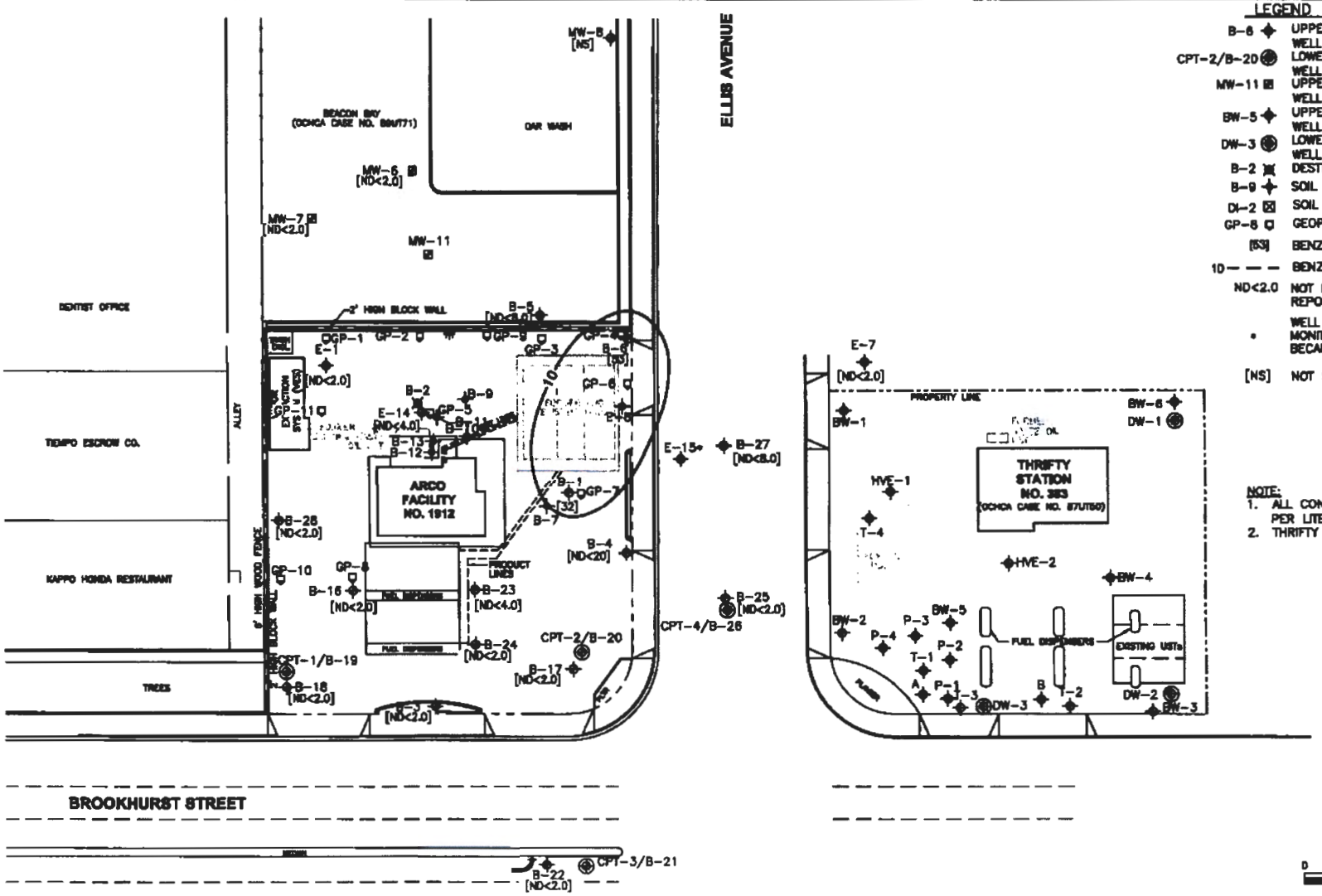
LEGEND

- B-6 — UPPER ZONE GROUNDWATER MONITORING WELL LOCATION (ARCO)
- CPT-2/B-20 — LOWER ZONE GROUNDWATER MONITORING WELL AND CPT LOCATION (ARCO)
- MW-11 — UPPER ZONE GROUNDWATER MONITORING WELL LOCATION (BEACON BAY)
- BW-5 — UPPER ZONE GROUNDWATER MONITORING WELL LOCATION (THRIFTY)
- DW-3 — LOWER ZONE GROUNDWATER MONITORING WELL LOCATION (THRIFTY)
- B-2 — DESTROYED WELL LOCATION (ARCO)
- GP-8 — GEOPROBE LOCATION (ARCO)
- [910] — GASOLINE RANGE ORGANICS (GRO) CONCENTRATION
- 100 — — — GRO ISOCONCENTRATION CONTOURS
- ND<50 — NOT DETECTED AT OR ABOVE STATED REPORTING LIMIT
- • — WELL ELIMINATED FROM GROUNDWATER MONITORING PROGRAM IN DECEMBER 2007 BECAUSE DAMAGED BEYOND REPAIR.
- [NS] — NOT SAMPLED

NOTE:
1. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (ug/L)
2. THRIFTY DATA NOT AVAILABLE.

0 40 80
APPROXIMATE SCALE (FEET)

ENVIRONMENTAL INC 5412 BOLSA AVENUE, SUITE G HUNTINGTON BEACH, CALIFORNIA PHONE: (714) 220-3485	FOR: ATLANTIC RICHFIELD COMPANY FACILITY NO. 1912 18480 BROOKHURST STREET FOUNTAIN VALLEY, CALIFORNIA		DISSOLVED GRO ISOCONCENTRATION MAP UPPER ZONE OCTOBER 15 & 16, 2012		FIGURE: 4
	JOB NUMBER: 1400-1912	DRAWN BY: R. BRDMAN	CHECKED BY: P. MINERVINI	APPROVED BY: P. MINERVINI	DATE: 11/30/12



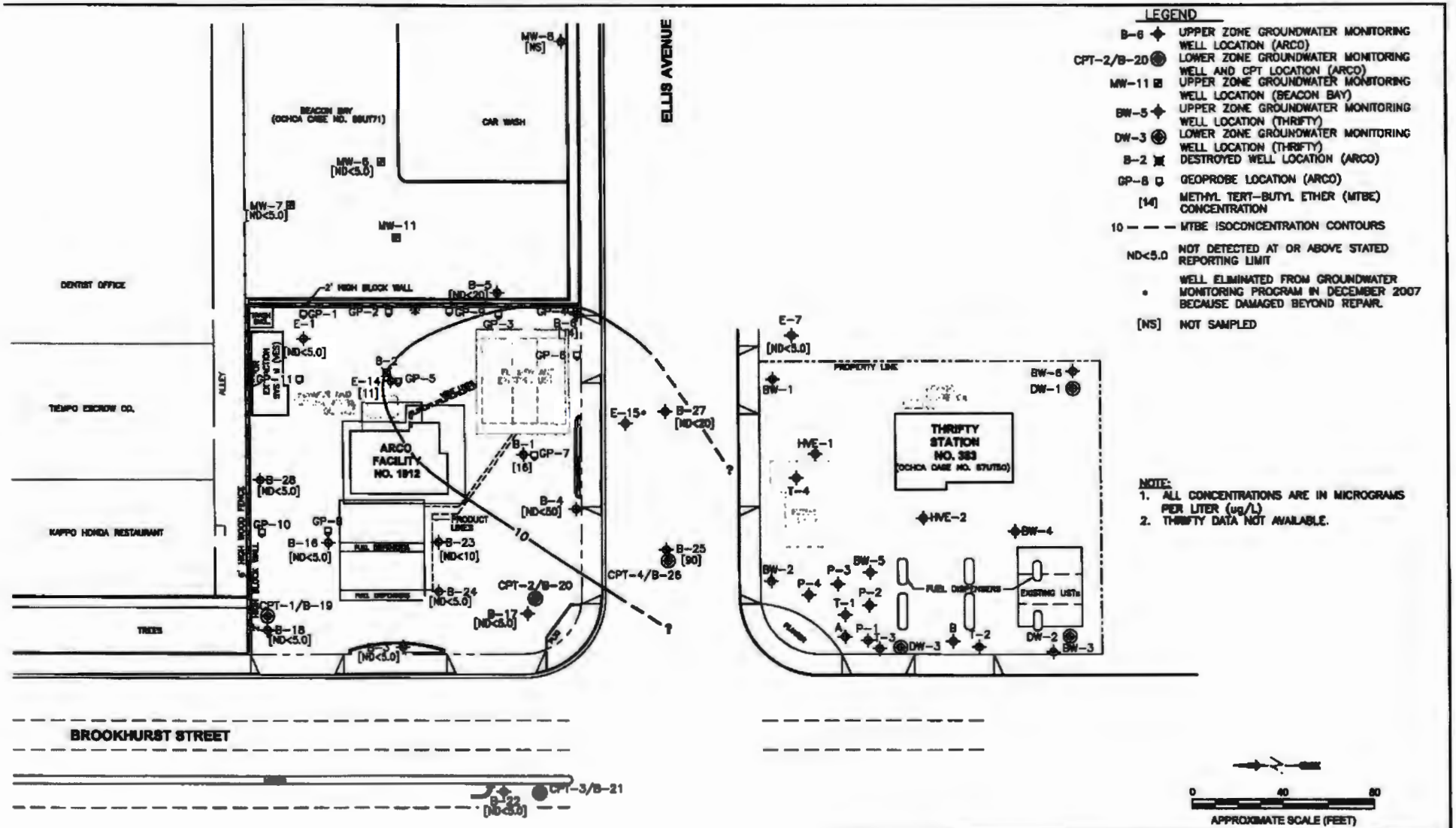
LEGEND

B-6 ✦	UPPER ZONE GROUNDWATER MONITORING WELL LOCATION (ARCO)
CPT-2/B-20 ◉	LOWER ZONE GROUNDWATER MONITORING WELL AND CPT LOCATION (ARCO)
MW-11 ⊠	UPPER ZONE GROUNDWATER MONITORING WELL LOCATION (BEACON BAY)
BW-5 ✦	UPPER ZONE GROUNDWATER MONITORING WELL LOCATION (THRIFTY)
DW-3 ◉	LOWER ZONE GROUNDWATER MONITORING WELL LOCATION (THRIFTY)
B-2 ⊠	DESTROYED WELL LOCATION (ARCO)
B-9 ✦	SOIL BORING LOCATION (ARCO)
DI-2 ⊠	SOIL SAMPLING LOCATION (ARCO)
GP-6 ◘	GEOPROBE LOCATION (ARCO)
[53]	BENZENE CONCENTRATION
10	BENZENE ISOCONCENTRATION CONTOURS
ND<2.0	NOT DETECTED AT OR ABOVE STATED REPORTING LIMIT
*	WELL ELIMINATED FROM GROUNDWATER MONITORING PROGRAM IN DECEMBER 2007 BECAUSE DAMAGED BEYOND REPAIR.
[NS]	NOT SAMPLED

NOTE:
1. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (ug/L)
2. THRIFTY DATA NOT AVAILABLE.

APPROXIMATE SCALE (FEET)

ENVIRONMENTAL INC. 5412 BOLSA AVENUE, SUITE G HUNTINGTON BEACH, CALIFORNIA PHONE: (714) 230-3750	FOR: ATLANTIC RICHFIELD COMPANY FACILITY NO. 1912 18480 BROOKHURST STREET FOUNTAIN VALLEY, CALIFORNIA	DISSOLVED BENZENE ISOCONCENTRATION MAP UPPER ZONE OCTOBER 15 & 16, 2012			FIGURE: 5
	JOB NUMBER: 1400-1912	DRAWN BY: R. ERDMAN	CHECKED BY: F. MINERVINI	APPROVED BY: F. MINERVINI	DATE: 11/30/12



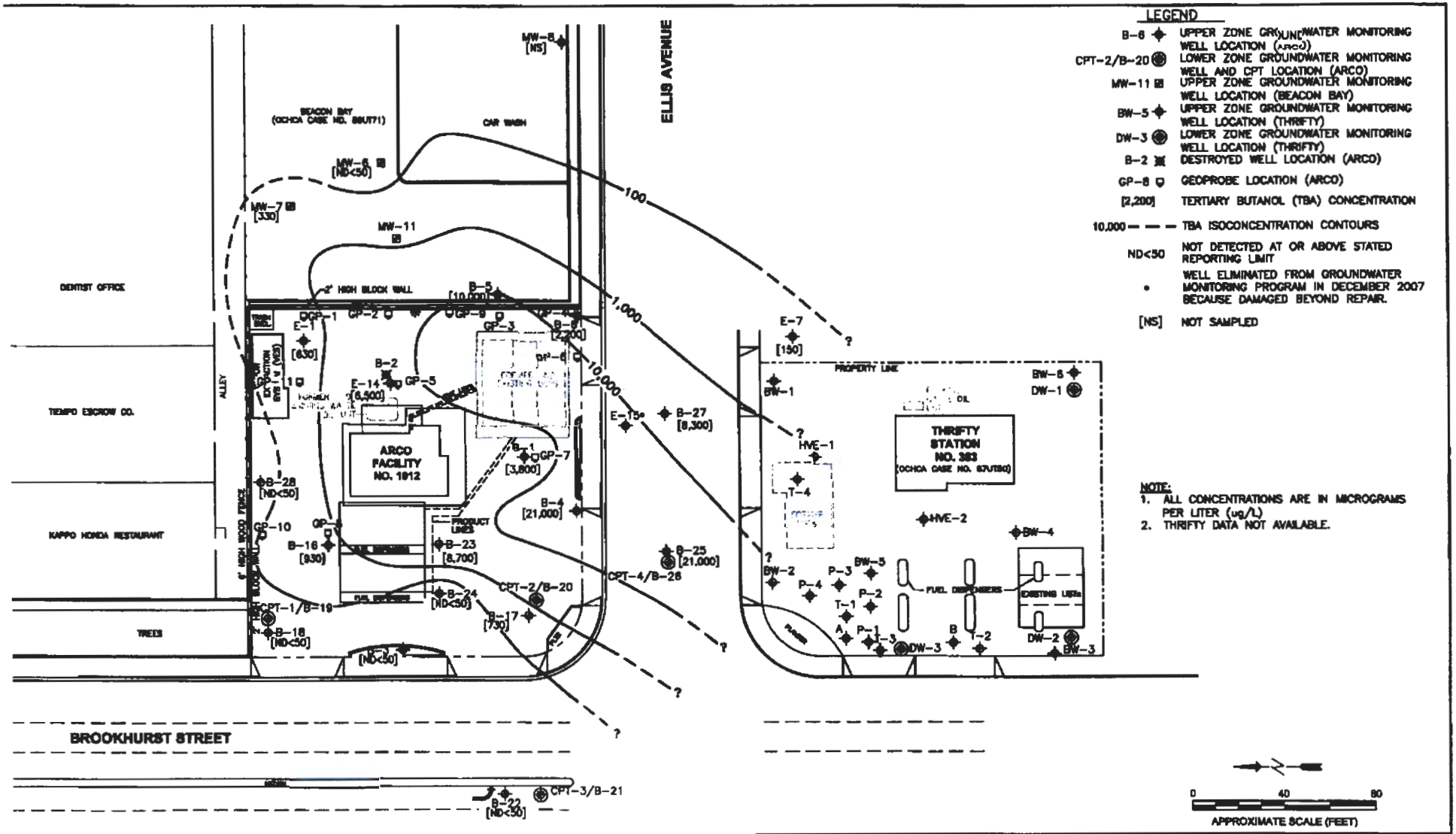
LEGEND

B-6	UPPER ZONE GROUNDWATER MONITORING WELL LOCATION (ARCO)
CPT-2/B-20	LOWER ZONE GROUNDWATER MONITORING WELL AND CPT LOCATION (ARCO)
MW-11	UPPER ZONE GROUNDWATER MONITORING WELL LOCATION (BEACON BAY)
BW-5	UPPER ZONE GROUNDWATER MONITORING WELL LOCATION (THRIFTY)
DW-3	LOWER ZONE GROUNDWATER MONITORING WELL LOCATION (THRIFTY)
B-2	DESTROYED WELL LOCATION (ARCO)
GP-8	GEOPROBE LOCATION (ARCO)
[14]	METHYL TERT-BUTYL ETHER (MTBE) CONCENTRATION
10	MTBE ISOCONCENTRATION CONTOURS
ND<5.0	NOT DETECTED AT OR ABOVE STATED REPORTING LIMIT
•	WELL ELIMINATED FROM GROUNDWATER MONITORING PROGRAM IN DECEMBER 2007 BECAUSE DAMAGED BEYOND REPAIR.
[NS]	NOT SAMPLED

NOTE:
1. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (ug/L)
2. THRIFTY DATA NOT AVAILABLE.

0 40 80
APPROXIMATE SCALE (FEET)

ERM ENVIRONMENTAL INC. 9412 SOLSA AVENUE, SUITE G HUNTINGTON BEACH, CALIFORNIA PHONE: (714) 230-0480	FOR: ATLANTIC RICHFIELD COMPANY FACILITY NO. 1912 18480 BROOKHURST STREET FOUNTAIN VALLEY, CALIFORNIA	DISSOLVED MTBE ISOCONCENTRATION MAP UPPER ZONE OCTOBER 15 & 16, 2012			FIGURE: 6
	JOB NUMBER: 1400-1912	DRAWN BY: R. ERDMAN	CHECKED BY: P. MINERVINI	APPROVED BY: P. MINERVINI	DATE: 11/5/2012



LEGEND

B-6 ✦	UPPER ZONE GROUNDWATER MONITORING WELL LOCATION (ARCO)
CPT-2/B-20 ◉	LOWER ZONE GROUNDWATER MONITORING WELL AND CPT LOCATION (ARCO)
MW-11 ⊠	UPPER ZONE GROUNDWATER MONITORING WELL LOCATION (BEACON BAY)
BW-5 ✦	UPPER ZONE GROUNDWATER MONITORING WELL LOCATION (THRIFTY)
DW-3 ◉	LOWER ZONE GROUNDWATER MONITORING WELL LOCATION (THRIFTY)
B-2 ⊠	DESTROYED WELL LOCATION (ARCO)
GP-8 ▽	GEOPROBE LOCATION (ARCO)
[2,200]	TERTIARY BUTANOL (TBA) CONCENTRATION
10,000 — — —	TBA ISOCONCENTRATION CONTOURS
ND<50	NOT DETECTED AT OR ABOVE STATED REPORTING LIMIT
•	WELL ELIMINATED FROM GROUNDWATER MONITORING PROGRAM IN DECEMBER 2007 BECAUSE DAMAGED BEYOND REPAIR.
[NS]	NOT SAMPLED

NOTE:
1. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (ug/L)
2. THRIFTY DATA NOT AVAILABLE.

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APPROXIMATE SCALE (FEET)

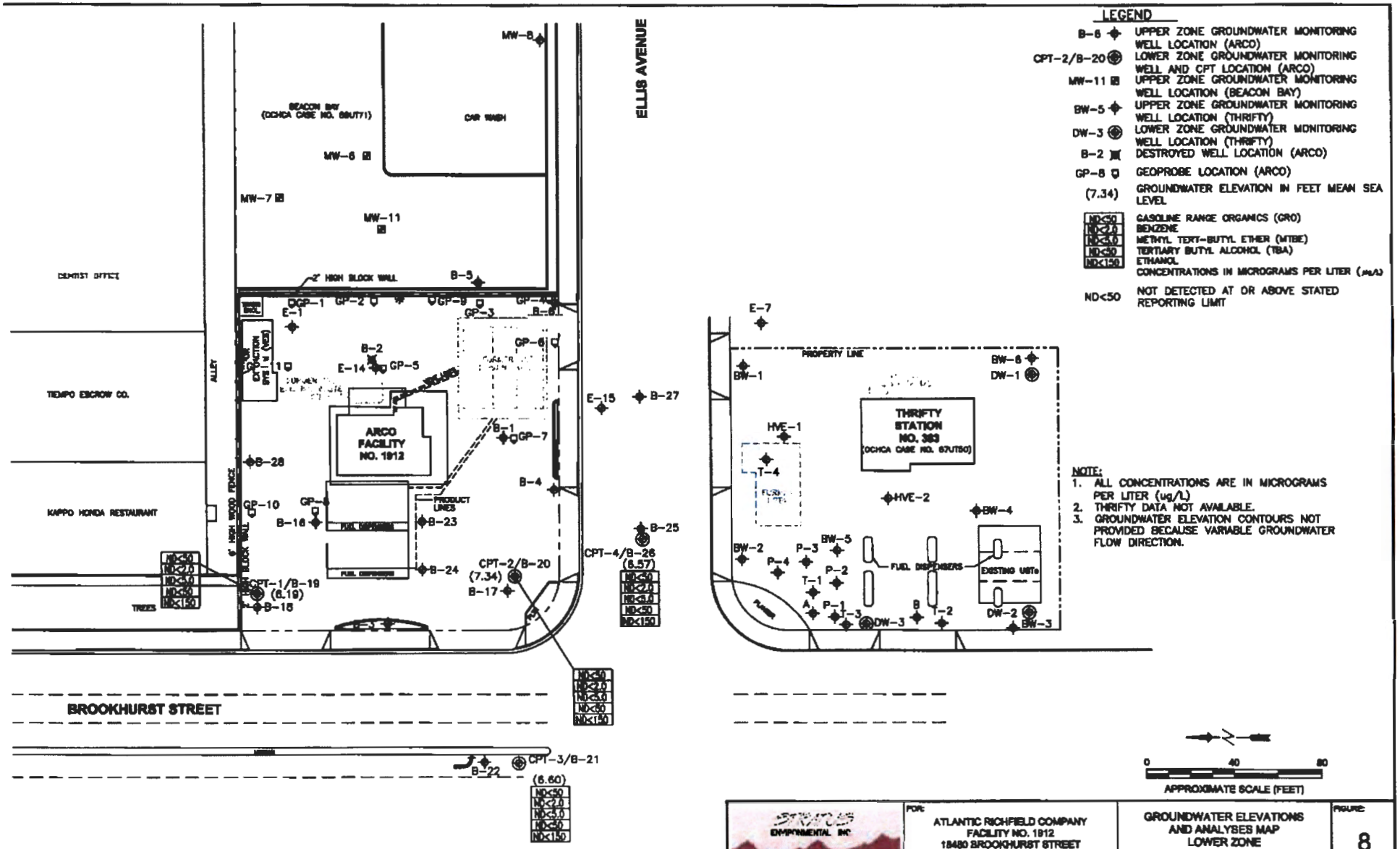
STRATUS ENVIRONMENTAL INC
6412 BOLSA AVENUE, SUITE G
HUNTINGTON BEACH, CALIFORNIA
PHONE: (714) 379-3480

FOR:
ATLANTIC RICHFIELD COMPANY
FACILITY NO. 1912
16480 BROOKHURST STREET
FOUNTAIN VALLEY, CALIFORNIA

DISSOLVED TBA
ISOCONCENTRATION MAP
UPPER ZONE
OCTOBER 15 & 16, 2012

FIGURE: 7

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
1400-1912	R. BRDMAN	F. MINERVINI	F. MINERVINI	11/30/12



ERM ENVIRONMENTAL INC. 5412 BOLSA AVENUE, SUITE G HUNTINGTON BEACH, CALIFORNIA PHONE: (714) 230-6489	FOR: ATLANTIC RICHFIELD COMPANY FACILITY NO. 1912 18480 BROOKHURST STREET FOUNTAIN VALLEY, CALIFORNIA	GROUNDWATER ELEVATIONS AND ANALYSES MAP LOWER ZONE OCTOBER 15 & 16, 2012			FIGURE: 8
	JOB NUMBER: 1400-1912	DRAWN BY: R. BROMAN	CHECKED BY: F. MINERVINI	APPROVED BY: F. MINERVINI	DATE: 11/26/12

TABLE 1
Current Groundwater Monitoring Data
ARCO Facility No. 1912
18480 Brookhurst Street
Fountain Valley, California

Well ID	Date Sampled	Screen Interval (feet bgs)	TOC Elevation (feet msl)	Depth to Water (feet)	Groundwater Elevation (feet msl)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	EtOH (µg/L)
UPPER ZONE WELLS																
B-1	10/16/12	5-20	15.88	6.81	9.07	**990**	**32**	ND<2.0	**16**	ND<4.0	**16**	ND<5.0	ND<5.0	ND<5.0	**3,800**	ND<150
B-3	10/15/12	5-20	17.26	7.88	9.38	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150
B-4	10/15/12	5-20	15.20	6.78	8.42	**690**	ND<20	ND<20	ND<20	ND<40	ND<50	ND<50	ND<50	ND<50	**21,000**	ND<1500
B-5	10/16/12	5-20	15.14	5.52	9.62	ND<50	ND<8.0	ND<8.0	ND<8.0	ND<16	ND<20	ND<20	ND<20	ND<20	**10,000**	ND<600
B-6	10/16/12	5-20	14.41	5.04	9.37	**910**	**53**	ND<2.0	**29**	ND<4.0	**14**	ND<5.0	**8.3**	ND<5.0	**2,200**	ND<150
B-16	10/15/12	7-22	17.13	7.51	9.62	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	**930**	ND<150
B-17	10/16/12	7-22	15.91	7.66	8.25	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	**730**	ND<150
B-18	10/15/12	7-22	17.21	7.11	10.10	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150
B-22	10/15/12	5-20	17.25	8.29	8.96	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150
B-23	10/16/12	5-20	16.79	7.93	8.86	ND<50	ND<4.0	ND<4.0	ND<4.0	ND<8.0	ND<10	ND<10	ND<10	ND<10	**8,700**	ND<300
B-24	10/16/12	5-20	16.46	7.67	8.79	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150
B-25	10/16/12	5-20	16.05	9.28	6.77	**300**	ND<2.0	ND<2.0	ND<2.0	ND<4.0	**90**	ND<5.0	**25**	ND<5.0	**21,000**	ND<150
B-27	10/16/12	5-21	15.63	8.88	6.75	**69**	ND<8.0	ND<8.0	ND<8.0	ND<16	ND<20	ND<20	ND<20	ND<20	**8,300**	ND<600
B-28	10/15/12	5-20	17.84	7.83	10.01	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150
E-1	10/16/12	5-25	17.01	7.12	9.89	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	**630**	ND<150
E-7	10/15/12	5-35	16.20	8.99	7.21	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	**150**	ND<150
E-14	10/16/12	5-30	16.99	8.43	8.56	ND<50	ND<4.0	ND<4.0	ND<4.0	ND<8.0	**11**	ND<10	ND<10	ND<10	**6,500**	ND<300
MW-6	10/16/12	--	16.14	6.18	9.96	**150**	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150
MW-7	10/16/12	--	15.92	5.91	10.01	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	**330**	ND<150
MW-8	10/15/12	--	17.83	Well covered by landscape / not accessible												
LOWER ZONE WELLS																
B-19	10/15/12	59.5-64.5	16.92	10.73	6.19	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150
B-20	10/15/12	59-64	17.34	10.00	7.34	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150
B-21	10/15/12	60-65	17.38	10.78	6.60	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150
B-26	10/15/12	60-66	16.11	9.54	6.57	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<150

Notes:
-- = Not available/Not applicable
bgs = below ground surface
msl = mean sea level
µg/l = micrograms per liter
TOC = top of well casing
GRO = gasoline-range organics (C6-C12)
MTBE = methyl tertiary butyl ether
DIPE = di-isopropyl ether
ETBE = ethyl tertiary butyl ether
TAME = tertiary amyl methyl ether
TBA = tertiary butyl alcohol
EtOH = ethanol
BTEX, MTBE, DIPE, ETBE, TAME, TBA, and EtOH analyzed according to EPA Method 8260B
GRO analyzed according to EPA Method 8015 (modified)

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER

THRIFTY OIL #383 (T0605900650) - (MAP)

18520 BROOKHURST
FOUNTAIN VALLEY, CA 92708
ORANGE COUNTY
LUST CLEANUP SITE

CLEANUP OVERSIGHT AGENCIES
ORANGE COUNTY LOP *(LEAD) - CASE #: 87UT050*
CASEWORKER: *SHYAMALA KALYANASUNDARAM*
SANTA ANA RWQCB (REGION 8) - *CASE #: 083000824T*
CASEWORKER: *VALERIE JAHN-BULL*

CUF Claim #:	13541, 1772
CUF Priority Assigned:	C, D
CUF Amount Paid:	$999,356

Regulatory Profile — PRINTABLE CASE SUMMARY

CLEANUP STATUS - DEFINITIONS
OPEN - REMEDIATION AS OF 12/27/2000 - CLEANUP STATUS HISTORY

POTENTIAL CONTAMINANTS OF CONCERN
GASOLINE

POTENTIAL MEDIA AFFECTED
OTHER GROUNDWATER (USES OTHER THAN DRINKING WATER)

FILE LOCATION
LOCAL AGENCY

BENEFICIAL USE
GW - MUNICIPAL AND DOMESTIC SUPPLY

GROUNDWATER MONITORING FREQUENCY
OF WELLS MONITORED - SEMI-ANNUALLY : 14

Site History

Please refer to recent Site Documents or Monitoring Reports in GeoTracker for site history. Orange County is not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants for the responsible party.

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Cleanup Status History

DATE	STATUS
12/27/2000	Open - Remediation
3/4/1987	Open - Case Begin Date

CLOSURE REVIEW - THIS CASE IS NOT READY FOR CLOSURE AS OF 4/19/2010 VIEW ALL POSSIBLE CLOSURE REVIEW VALUES

IMPEDIMENTS TO CLOSURE

PLUME INSTABILITY
- Groundwater Contamination Plume Not Stable or Decreasing -
- Significant Rebound In Concentrations After Remediation -
- Verification Monitoring Not Complete -

GROUNDWATER IMPACTS
- Groundwater Impacted Above Background -
- Groundwater Impacted Above Other Cleanup Goal -
- Groundwater Will Not Meet Relevant WQOs Before the Beneficial Use of the Groundwater is Needed -

BENEFITS OF ADDITIONAL WORK
- Verify Remedial Action Effectiveness -

SENSITIVE RECEPTORS LIKELY TO BE IMPACTED AND TIME FRAME FOR IMPACT

SENSITIVE RECEPTOR	TIME FRAME FOR IMPACT	COMMENTS
Groundwater	Already Impacted	

Cleanup Action Report

ACTION TYPE	BEGIN DATE	END DATE	PHASE	CONTAMINANT MASS REMOVED	DESCRIPTION
OTHER (USE DESCRIPTION FIELD)	4/7/2009	6/28/2010			Ozone Sparging: A total of 599.5 pounds of ozone was injected.
EXCAVATION	2/1/2003	2/1/2003	Soil	201 Tons	
OTHER (USE DESCRIPTION FIELD)	1/16/2001	9/14/2007	Water	37,172 Pounds	DPE system
IN SITU PHYSICAL/CHEMICAL TREATMENT (OTHER THAN SVE)	1/16/2001	9/9/9999			
FREE PRODUCT REMOVAL	6/15/1987	2/21/2001			
EXCAVATION	6/15/1987	12/17/1987			EXCAVATED, AERATED ONSITE, AND DISPOSED OF OFFSITE

Regulatory Activities

* Indicates a revised due date

	ACTION TYPE	ACTION	ACTION DATE	RECEIVED / ISSUE DATE
	OTHER REGULATORY ACTIONS	File review	11/29/2012	11/29/2012
[VIEW DOCS]	*ENFORCEMENT/ORDERS*	Staff Letter	9/28/2012	9/28/2012
	RESPONSE - REPORTS	Clean Up Fund - 5-Year Review Summary	4/18/2012	4/18/2012
	OTHER REGULATORY ACTIONS	File review	5/24/2011	5/24/2011
[VIEW DOCS]	*ENFORCEMENT/ORDERS*	Staff Letter	2/17/2011	2/17/2011
	RESPONSE - REPORTS	Clean Up Fund - 5-Year Review Summary	5/5/2010	5/5/2010
[VIEW DOCS]	*ENFORCEMENT/ORDERS*	Staff Letter	7/2/2009	7/2/2009
[VIEW DOCS]	*ENFORCEMENT/ORDERS*	Staff Letter	4/28/2009	4/28/2009
	CLEANUP ACTION	Other (Use Description Field)	4/7/2009	
[VIEW DOCS]	*ENFORCEMENT/ORDERS*	Staff Letter	3/26/2009	3/26/2009
	ENFORCEMENT/ORDERS	Staff Letter	5/1/2008	5/1/2008
	ENFORCEMENT/ORDERS	Staff Letter	4/3/2008	4/3/2008
	ENFORCEMENT/ORDERS	Staff Letter	8/20/2007	8/20/2007
	ENFORCEMENT/ORDERS	Staff Letter	4/9/2007	4/9/2007
	ENFORCEMENT/ORDERS	Staff Letter	4/4/2007	4/4/2007
	ENFORCEMENT/ORDERS	Staff Letter	11/1/2005	11/1/2005
	ENFORCEMENT/ORDERS	Staff Letter	4/12/2005	4/12/2005
	ENFORCEMENT/ORDERS	Staff Letter	12/28/2004	12/28/2004
	ENFORCEMENT/ORDERS	Staff Letter	10/7/2004	10/7/2004
	CLEANUP ACTION	Excavation	2/1/2003	
	CLEANUP ACTION	In Situ Physical/Chemical Treatment (other than SVE)	1/16/2001	
	CLEANUP ACTION	Other (Use Description Field)	1/16/2001	
	ENFORCEMENT/ORDERS	* Historical Enforcement	2/3/1997	2/3/1997
	CLEANUP ACTION	Free Product Removal	6/15/1987	
	CLEANUP ACTION	Excavation	6/15/1987	
	LEAK ACTION	Leak Discovery	3/4/1987	
	LEAK ACTION	Leak Reported	3/4/1987	

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Individual Well Analytical Data

FIELD POINT NAME	FIELD POINT CLASS	MIN DEPTH TO WATER	MAX DEPTH TO WATER	DEPTH - TOP OF CASING TO WELL SCREEN	LENGTH OF WELL SCREEN	FIELD POINT DESCRIPTION
CB-1	Borehole					
CB-3	Borehole					
CB-9	Borehole					
EFFLUENT	Effluent Sample					
INFLUENT	Influent Sample					
OS-1	Injection Well			13 feet	1.5 feet	Ozone Sparge Point
OS-2	Injection Well			12.5 feet	1.5 feet	Ozone Sparge Point
OS-4	Injection Well			12.5 feet	1.5 feet	Ozone Sparge Point
OS-5	Injection Well			13 feet	1.5 feet	Ozone Sparge Point
OS-6	Injection Well			13.5 feet	1.5 feet	Ozone Injection Point
OS-7	Injection Well			13.5 feet	1.5 feet	Ozone Sparge Point
OS-8	Injection Well			13.5 feet	1.5 feet	Ozone Injection Point
OS-9	Injection Well			13.5 feet	1.5 feet	Ozone Sparge Point
P-1	Piezometer			5 feet	25 feet	
P-2	Piezometer			5 feet	25 feet	
P-3	Piezometer			5 feet	25 feet	
P-4	Piezometer			5 feet	25 feet	
T-1	Recovery Well	7.20	12.82	4 feet	15 feet	Trench recovery point
T-2	Recovery Well	6.93	12.65	7 feet	10 feet	Trench recovery point
T-3	Recovery Well	7.16	12.76	7 feet	10 feet	Trench recovery point
T-4	Recovery Well	6.29	11.55	5 feet	10 feet	Trench recovery point
A	Remediation/Groundwater Monitoring Well	7.16	12.25	7.5 feet	5 feet	
B	Remediation/Groundwater Monitoring Well	7.36	9.02	6.5 feet	5 feet	
BW-1	Remediation/Groundwater Monitoring Well	3.20	23.87	5 feet	25 feet	
BW-2	Remediation/Groundwater Monitoring Well	6.89	19.80	5 feet	25 feet	
BW-3	Remediation/Groundwater Monitoring Well	6.80	14.90	5 feet	25 feet	
BW-4	Remediation/Groundwater Monitoring Well	6.61	17.65	5 feet	25 feet	
BW-5	Remediation/Groundwater Monitoring Well	6.85	13.35	5 feet	25 feet	
BW-6	Remediation/Groundwater Monitoring Well	6.47	14.78	4 feet	15 feet	
BW-7	Remediation/Groundwater Monitoring Well	7.36	12.35	4 feet	15 feet	
BW-8	Remediation/Groundwater Monitoring Well	6.40	13.56	4 feet	15 feet	
CB-5	Remediation/Groundwater Monitoring Well			5 feet	15 feet	
CB-8	Remediation/Groundwater Monitoring Well			5 feet	15 feet	
CB-7	Remediation/Groundwater Monitoring Well			5 feet	15 feet	
CB-8	Remediation/Groundwater Monitoring Well			5 feet	15 feet	

DW-1	Remediation/Groundwater Monitoring Well	4.38	34.35	56.5 feet	5 feet	Deep Groundwater Zone
DW-2	Remediation/Groundwater Monitoring Well	3.58	33.55	59 feet	5 feet	Deep Groundwater Zone
DW-3	Remediation/Groundwater Monitoring Well	3.42	33.55	61.5 feet	5 feet	Deep Groundwater Zone
HVE-1	Remediation/Groundwater Monitoring Well	6.98	21.00	5 feet	25 feet	
HVE-2	Remediation/Groundwater Monitoring Well	6.82	17.83	5 feet	25 feet	
CB-4	Vapor Extraction Well			7 feet	10 feet	

Laboratory Analytical Reports (EDF)

EXPORT ALL EDF DATA FOR THIS CASE TO EXCEL

TITLE	QUARTER	SUBMITTED BY	SUBMIT DATE
2001Q4 GWMR TOC393	Q4 2001	JEFF SURYAKUSUMA	1/14/2002
QUARTERLY REPORT	Q2 2002	JEFF SURYAKUSUMA	7/17/2002
3RD QUARTER STATUS REPORT	Q3 2002	JEFF SURYAKUSUMA	9/23/2002
FOURTH QUARTER 2002 STATUS REPORT	Q4 2002	JEFF SURYAKUSUMA	12/17/2002
1ST QUARTER 2003 STATUS REPORT	Q1 2003	JEFF SURYAKUSUMA	4/9/2003
2ND QUARTER 2003 STATUS REPORT	Q2 2003	JEFF SURYAKUSUMA	7/22/2003
3RD QUARTER 2003 STATUS REPORT	Q3 2003	JEFF SURYAKUSUMA	9/23/2003
4TH QUARTER 2003 STATUS REPORT	Q4 2003	JEFF SURYAKUSUMA	12/26/2003
1ST QUARTER 2004 STATUS REPORT	Q1 2004	JEFF SURYAKUSUMA	3/23/2004
2ND QUARTER 2004 STATUS REPORT	Q2 2004	JEFF SURYAKUSUMA	6/24/2004
2ND QUARTER 2004 STATUS REPORT	Q2 2004	JEFF SURYAKUSUMA	6/24/2004
3RD QUARTER 2004 STATUS REPORT	Q3 2004	JEFF SURYAKUSUMA	9/22/2004*
4TH QUARTER 2004 STATUS REPORT	Q4 2004	JEFF SURYAKUSUMA	12/15/2004
1ST QUARTER 2005 STATUS REPORT	Q1 2005	JEFF SURYAKUSUMA	4/1/2005
2ND QUARTER 2005 STATUS REPORT	Q2 2005	JEFF SURYAKUSUMA	7/5/2005*
3RD QUARTER 2005 STATUS REPORT	Q3 2005	JEFF SURYAKUSUMA	9/30/2005
4TH QUARTER 2005 STATUS REPORT	Q4 2005	JEFF SURYAKUSUMA	12/30/2005
1ST QUARTER 2006 STATUS REPORT	Q1 2006	JEFF SURYAKUSUMA	3/29/2006*
1ST QUARTER 2006 STATUS REPORT	Q1 2006	JEFF SURYAKUSUMA	3/29/2006*
CORRECTIVE ACTION PLAN IMPLEMENTATION REPORT...	Q1 2006	JEFF SURYAKUSUMA	6/26/2006
2ND QUARTER 2006 STATUS REPORT	Q2 2006	LARRY HIGINBOTHAM	7/18/2006
THIRD QUARTER 2006 STATUS REPORT	Q3 2006	LARRY HIGINBOTHAM	10/24/2006
FOURTH QUARTER 2006 STATUS REPORT	Q4 2006	LARRY HIGINBOTHAM	1/23/2007
FOURTH QUARTER 2006 STATUS REPORT	Q4 2006	LARRY HIGINBOTHAM	1/24/2007
FIRST QUARTER 2007 STATUS REPORT	Q1 2007	LARRY HIGINBOTHAM	4/24/2007
FIRST QUARTER 2007 STATUS REPORT	Q1 2007	JEFF SURYAKUSUMA	5/21/2007
FIRST QUARTER 2007 STATUS REPORT	Q1 2007	JEFF SURYAKUSUMA	5/21/2007
FIRST QUARTER 2007 STATUS REPORT	Q1 2007	JEFF SURYAKUSUMA	5/21/2007
SECOND QUARTER 2007 STATUS REPORT	Q2 2007	LARRY HIGINBOTHAM	7/26/2007
THIRD QUARTER 2007 STATUS REPORT	Q3 2007	LARRY HIGINBOTHAM	10/12/2007
FOURTH QUARTER 2007 STATUS REPORT	Q4 2007	LARRY HIGINBOTHAM	12/18/2007
FIRST QUARTER 2008 STATUS REPORT	Q1 2008	LARRY HIGINBOTHAM	3/20/2008
SECOND QUARTER 2008 STATUS REPORT	Q2 2008	LARRY HIGINBOTHAM	7/24/2008
OZONE SPARGE WELL INSTALLATION REPORT	Q3 2008	LARRY HIGINBOTHAM	9/19/2008
OZONE SPARGE WELL INSTALLATION REPORT	Q3 2008	LARRY HIGINBOTHAM	9/19/2008
OZONE SPARGE WELL INSTALLATION REPORT	Q3 2008	LARRY HIGINBOTHAM	9/19/2008
OZONE SPARGE WELL INSTALLATION REPORT	Q3 2008	LARRY HIGINBOTHAM	9/19/2008
OZONE SPARGE WELL INSTALLATION REPORT	Q3 2008	LARRY HIGINBOTHAM	9/23/2008
THIRD QUARTER 2008 STATUS REPORT	Q3 2008	LARRY HIGINBOTHAM	9/29/2008
FOURTH QUARTER 2008 STATUS REPORT	Q4 2008	LARRY HIGINBOTHAM	1/14/2009
FIRST QUARTER 2009 STATUS REPORT	Q1 2009	LARRY HIGINBOTHAM	4/3/2009
SECOND QUARTER 2009 STATUS REPORT	Q2 2009	LARRY HIGINBOTHAM	6/26/2009
SECOND QUARTER 2009 STATUS REPORT	Q2 2009	LARRY HIGINBOTHAM	6/26/2009
QUARTERLY STATUS REPORT - 3RD QUARTER 2009...	Q3 2009	JEFF SURYAKUSUMA	9/22/2009
Q3 SPARGE SYSTEM PERFORMANCE RPT	Q2 2009	JEFF SURYAKUSUMA	9/22/2009
Q3 SPARGE SYSTEM PERFORMANCE RPT	Q2 2009	JEFF SURYAKUSUMA	9/22/2009
Q3 SPARGE SYSTEM PERFORMANCE RPT	Q2 2009	JEFF SURYAKUSUMA	9/22/2009
Q3 SPARGE SYSTEM PERFORMANCE RPT	Q2 2009	JEFF SURYAKUSUMA	9/22/2009
Q3 SPARGE SYSTEM PERFORMANCE RPT	Q3 2009	JEFF SURYAKUSUMA	9/22/2009

FIRST HALF 2010 SEMIANNUAL STATUS REPORT	Q1 2010	SIMONA TANASESCU	4/7/2010
Q3 SPARGE SYSTEM PERFORMANCE REPORT	Q4 2009	SIMONA TANASESCU	4/23/2010
Q3 SPARGE SYSTEM PERFORMANCE REPORT	Q4 2009	SIMONA TANASESCU	4/23/2010
Q3 SPARGE SYSTEM PERFORMANCE REPORT	Q1 2010	SIMONA TANASESCU	4/23/2010
Q3 SPARGE SYSTEM PERFORMANCE REPORT	Q1 2010	SIMONA TANASESCU	4/23/2010
Q3 SPARGE SYSTEM PERFORMANCE REPORT	Q4 2009	SIMONA TANASESCU	4/23/2010
Q3 SPARGE SYSTEM PERFORMANCE REPORT	Q2 2010	SIMONA TANASESCU	7/29/2010
Q2 SPARGE SYSTEM PERFORMANCE REPORT	Q2 2010	SIMONA TANASESCU	7/29/2010
Q3 SPARGE SYSTEM PERFORMANCE REPORT	Q2 2010	SIMONA TANASESCU	7/29/2010
Q3 SPARGE SYSTEM PERFORMANCE REPORT	Q2 2010	SIMONA TANASESCU	7/30/2010
Q3 SPARGE SYSTEM PERFORMANCE REPORT	Q2 2010	SIMONA TANASESCU	7/30/2010
Q3 SPARGE SYSTEM PERFORMANCE REPORT	Q2 2010	SIMONA TANASESCU	7/30/2010
Q3 SPARGE SYSTEM PERFORMANCE REPORT	Q2 2010	SIMONA TANASESCU	7/30/2010
SECOND HALF 2010 SEMI-ANNUAL STATUS REPORT...	Q3 2010	SIMONA TANASESCU	9/20/2010
FIRST HALF 2011 SEMI-ANNUAL STATUS REPORT...	Q1 2011	SIMONA TANASESCU	3/11/2011
2ND QUARTER 2011 STATUS REPORT	Q2 2011	SIMONA TANASESCU	7/8/2011
3RD QUARTER 2011 STATUS REPORT	Q3 2011	SIMONA TANASESCU	10/12/2011
4TH QUARTER 2011 STATUS REPORT	Q4 2011	SIMONA TANASESCU	12/27/2011
1ST HALF 2012 STATUS REPORT	Q1 2012	SIMONA TANASESCU	4/4/2012
2ND SEMI-ANNUAL 2012 STATUS REPORT AND REQUEST FOR LOW-RISK ...	Q3 2012	SIMONA TANASESCU	10/10/2012

Well Latitude / Longitude Data (GEO_XY)

EXPORT ALL GEO_XY DATA FOR THIS CASE TO EXCEL

TITLE	SUBMITTED BY	SUBMIT DATE
383-GEO_XY	NICHOLAS PANAITESCU	6/6/2006

Well Survey Data (GEO_Z)

EXPORT ALL GEO_Z DATA FOR THIS CASE TO EXCEL

TITLE	SUBMITTED BY	SUBMIT DATE
GEO_Z	NICHOLAS PANAITESCU	2/22/2006*
383-GEO_Z	NICHOLAS PANAITESCU	6/6/2006

Well Depth to Water Data (GEO_WELL)

EXPORT ALL GEO_WELL DATA FOR THIS CASE TO EXCEL

TITLE	SUBMITTED BY	SUBMIT DATE
383-GEO_WELL	JEFF SURYAKUSUMA	11/11/2005
383-GEO_WELL-2005Q2	JEFF SURYAKUSUMA	11/11/2005
383-GEO_WELL-2005Q3	JEFF SURYAKUSUMA	11/11/2005
383-GEO_WELL-2005Q4	TECHNICAL WRITER	4/26/2007
383-GEO_WELL-2006Q2	TECHNICAL WRITER	4/26/2007
383-GEO_WELL-2006Q3	TECHNICAL WRITER	4/26/2007
383-GEO_WELL-2006Q4	TECHNICAL WRITER	4/26/2007
383-GEO_WELL-2007Q1	TECHNICAL WRITER	4/26/2007
383-GEO_WELL_2005Q1	JEFF SURYAKUSUMA	5/21/2007
383-GEO_WELL-2007Q2	TECHNICAL WRITER	7/24/2007
383-GEO_WELL-2007Q4	TECHNICAL WRITER	1/24/2008
383-GEO_WELL-2008Q1	TECHNICAL WRITER	4/18/2008
383-GEO_WELL-2008Q2	TECHNICAL WRITER	7/23/2008
383-GEO_WELL-2008Q4	TECHNICAL WRITER	1/27/2009
383-GEO_WELL-2009Q1	TECHNICAL WRITER	4/16/2009
383-GEO_WELL-2009Q2	TECHNICAL WRITER	7/15/2009*
383-GEO_WELL-2009Q3	TECHNICAL WRITER	10/20/2009
383-GEO_WELL-2010Q1	TECHNICAL WRITER	4/1/2010
383-GEO_WELL-2010Q3	TECHNICAL WRITER	10/13/2010*
383-GEO_WELL-2011SA1	TECHNICAL WRITER	4/21/2011
383-GEO_WELL-2011Q2	TECHNICAL WRITER	7/18/2011
383-GEO_WELL-2011Q3	TECHNICAL WRITER	10/11/2011
383-GEO_WELL-2011Q4	TECHNICAL WRITER	1/8/2012
383-GEO_WELL-2012Q1	TECHNICAL WRITER	4/17/2012*
383-GEO_WELL-2012Q3	TECHNICAL WRITER	10/11/2012

Site Maps and Boring Logs (GEO_MAP and GEO_BORE)

TITLE	SUBMITTED BY	SUBMITTED	SIZE
GEO_MAP	LARRY HIGINBOTHAM (CONTRACTOR)	2/2/2006	33 KB
GEO_BORE (CB-1)	LARRY HIGINBOTHAM (CONTRACTOR)	2/7/2006*	58 KB
GEO_BORE (CB-3)	LARRY HIGINBOTHAM (CONTRACTOR)	2/7/2006*	58 KB
GEO_BORE (CB-4)	LARRY HIGINBOTHAM (CONTRACTOR)	2/7/2006*	56 KB
GEO_BORE (CB-5)	LARRY HIGINBOTHAM (CONTRACTOR)	2/7/2006*	58 KB
GEO_BORE (CB-6)	LARRY HIGINBOTHAM (CONTRACTOR)	2/7/2006*	54 KB
GEO_BORE (CB-7)	LARRY HIGINBOTHAM (CONTRACTOR)	2/7/2006*	54 KB
GEO_BORE (CB-8)	LARRY HIGINBOTHAM (CONTRACTOR)	2/7/2006*	52 KB
GEO_BORE (CB-9)	LARRY HIGINBOTHAM (CONTRACTOR)	2/7/2006*	58 KB
CB-4 (WELL) (CB-4)	LARRY HIGINBOTHAM (CONTRACTOR)	8/19/2008*	65 KB
WELL OS-1 (OS-1)	LARRY HIGINBOTHAM (CONTRACTOR)	9/19/2008	42 KB
WELL OS-2 (OS-2)	LARRY HIGINBOTHAM (CONTRACTOR)	9/19/2008	35 KB
WELL OS-4 (OS-4)	LARRY HIGINBOTHAM (CONTRACTOR)	9/19/2008	34 KB
WELL OS-5 (OS-5)	LARRY HIGINBOTHAM (CONTRACTOR)	9/19/2008	35 KB
WELL OS-6 (OS-6)	LARRY HIGINBOTHAM (CONTRACTOR)	9/19/2008	39 KB
WELL OS-7 (OS-7)	LARRY HIGINBOTHAM (CONTRACTOR)	9/19/2008	35 KB
WELL OS-8 (OS-8)	LARRY HIGINBOTHAM (CONTRACTOR)	9/19/2008	35 KB
WELL OS-9 (OS-9)	LARRY HIGINBOTHAM (CONTRACTOR)	9/19/2008	37 KB

Site Documents

TITLE	TYPE	SUBMITTED BY	DOCUMENT DATE	SIZE
RESPONSE TO LIST OF SITE REVIEW	STAFF LETTER	GENIECE HIGGINS (REGULATOR)	9/28/2012	
THIRD 5-YEAR REVIEW	CLEAN UP FUND - 5-YEAR REVIEW SUMMARY	JAMES YOUNG (REGULATOR)	4/18/2012	
STATUS LETTER	STAFF LETTER	TAMARA ESCOBEDO (REGULATOR)	2/17/2011	
UNKNOWN	CLEAN UP FUND - 5-YEAR REVIEW SUMMARY	PAT G. CULLEN (REGULATOR)	5/5/2010	
4TH QT 2009 AND 1ST QT 2010 - Q3 SPARGE SYSTEM PERFORMANCE REPORT	REMEDIAL PROGRESS REPORT	SIMONA TANASESCU (CONTRACTOR)	4/26/2010*	9,200 KB
LETTER CONFIRMING EXTENSION OF OZONE SYSTEM OPERATIONS	CORRESPONDENCE	LARRY HIGINBOTHAM (CONTRACTOR)	3/9/2010*	85 KB
OZONE SPARGING REMEDIATION REPORT	REMEDIAL PROGRESS REPORT	LARRY HIGINBOTHAM (CONTRACTOR)	8/21/2009	5,554 KB
REQUEST FOR FURTHER SAMPLING REDUCTIONS AND NON-PURGE SAMPLING	CORRESPONDENCE	LARRY HIGINBOTHAM (CONTRACTOR)	7/15/2009	1,891 KB
REDUCED GROUNDWATER MONITORING REQUIREMENTS	STAFF LETTER	(REGULATOR)	7/2/2009	
OZONE SPARGE SYSTEM INSTALLATION AND START-UP REPORT	REMEDIAL PROGRESS REPORT	LARRY HIGINBOTHAM (CONTRACTOR)	5/15/2009	2,493 KB
REQUEST TO CONDUCT NON PURGE GROUNDWATER SAMPLING	STAFF LETTER	(REGULATOR)	4/28/2009	
OZONE SPARGING WELL INSTALLATION	STAFF LETTER	(REGULATOR)	3/26/2009	
REQUEST TO REDUCE GROUNDWATER SAMPLING FREQUENCY	CORRESPONDENCE	LARRY HIGINBOTHAM (CONTRACTOR)	3/18/2009	1,645 KB
REQUEST TO PERFORM NON-PURGE GROUNDWATER SAMPLING	CORRESPONDENCE	LARRY HIGINBOTHAM (CONTRACTOR)	3/17/2009	326 KB
OZONE SPARGE WELL INSTALLATION REPORT	SOIL AND WATER INVESTIGATION REPORT	LARRY HIGINBOTHAM (CONTRACTOR)	9/19/2008	7,742 KB

RADIUS OF INFLUENCE MAP	OTHER REPORT / DOCUMENT	LARRY HIGINBOTHAM (CONTRACTOR)	7/11/2008	67 KB
FIRST QUARTER 2008 STATUS REPORT	REPORTS - QUARTERLY STATUS REPORT	LARRY HIGINBOTHAM (CONTRACTOR)	3/27/2008	11,173 KB
CORRECTIVE ACTION PLAN	WORKPLANS - REMEDIAL ACTION PLAN	LARRY HIGINBOTHAM (CONTRACTOR)	3/3/2008*	9,747 KB
FOURTH QUARTER 2007 STATUS REPORT	REPORTS - QUARTERLY STATUS REPORT	LARRY HIGINBOTHAM (CONTRACTOR)	12/26/2007	10,409 KB
THIRD QUARTER 2007 STATUS REPORT (2 OF 2)	REPORTS - QUARTERLY STATUS REPORT	LARRY HIGINBOTHAM (CONTRACTOR)	10/18/2007	6,283 KB
THIRD QUARTER 2007 STATUS REPORT (1 OF 2)	REPORTS - QUARTERLY STATUS REPORT	LARRY HIGINBOTHAM (CONTRACTOR)	10/18/2007	12,064 KB
PROPOSAL FOR SYSTEM SHUT-DOWN AND REBOUND TESTING	CORRESPONDENCE - OTHER	LARRY HIGINBOTHAM (CONTRACTOR)	8/7/2007	68 KB
ADDENDUM TO FIRST QUARTER 2007 STATUS REPORT	REPORTS - QUARTERLY STATUS REPORT	LARRY HIGINBOTHAM (CONTRACTOR)	5/22/2007	730 KB
FOURTH QUARTER 2006 STATUS REPORT	REPORTS - QUARTERLY STATUS REPORT	LARRY HIGINBOTHAM (CONTRACTOR)	1/24/2007	12,169 KB
THIRD QUARTER 2006 STATUS REPORT (PART 2 OF 2)	REPORTS - QUARTERLY STATUS REPORT	LARRY HIGINBOTHAM (CONTRACTOR)	10/24/2006	2,943 KB
THIRD QUARTER 2006 STATUS REPORT (PART 1 OF 2)	REPORTS - QUARTERLY STATUS REPORT	LARRY HIGINBOTHAM (CONTRACTOR)	10/24/2006	10,546 KB
CORRECTIVE ACTION PLAN IMPLEMENTATION REPORT	REPORTS - REMEDIAL ACTION RPT.	LARRY HIGINBOTHAM (CONTRACTOR)	8/9/2006	5,281 KB
SECOND QUARTER 2006 STATUS REPORT	REPORTS - QUARTERLY STATUS REPORT	LARRY HIGINBOTHAM (CONTRACTOR)	7/26/2006	11,874 KB
1ST QUARTER 2006 STATUS REPORT (2 OF 2)	REPORTS - QUARTERLY STATUS REPORT	LARRY HIGINBOTHAM (CONTRACTOR)	4/6/2006*	5,711 KB
1ST QUARTER 2006 STATUS REPORT (1 OF 2)	REPORTS - QUARTERLY STATUS REPORT	LARRY HIGINBOTHAM (CONTRACTOR)	4/6/2006*	10,035 KB
CONFIRMATION BORING REPORT	REPORTS - INVESTIGATION RPT.	LARRY HIGINBOTHAM (CONTRACTOR)	2/7/2006*	5,815 KB
2ND QUARTER 2005 STATUS REPORT	REPORTS - QUARTERLY STATUS REPORT	LARRY HIGINBOTHAM (CONTRACTOR)	11/11/2005	14,193 KB

Monitoring Reports

TITLE	TYPE	SUBMITTED BY	DOCUMENT DATE	SIZE
2ND HALF 2012 SEMI-ANNUAL STATUS REPORT AND REQUEST FOR LOW-RISK CASE CLOSURE	MONITORING REPORT - SEMI-ANNUALLY	SIMONA TANASESCU (CONTRACTOR)	10/16/2012	2,867 KB
1ST HALF 2012 SEMI-ANNUAL STATUS REPORT AND REQUEST FOR LOW-RISK CASE CLOSURE	MONITORING REPORT - SEMI-ANNUALLY	SIMONA TANASESCU (CONTRACTOR)	4/17/2012*	3,219 KB
4TH QUARTER 2011 STATUS REPORT	MONITORING REPORT - QUARTERLY	SIMONA TANASESCU (CONTRACTOR)	1/9/2012	7,314 KB
3RD QUARTER 2011 STATUS REPORT	MONITORING REPORT - QUARTERLY	SIMONA TANASESCU (CONTRACTOR)	10/17/2011	2,628 KB
SECOND QUARTER 2011 STATUS REPORT	MONITORING REPORT - QUARTERLY	SIMONA TANASESCU (CONTRACTOR)	7/19/2011	26,315 KB
FIRST HALF 2011 SEMI-ANNUAL STATUS REPORT	MONITORING REPORT - SEMI-ANNUALLY	SIMONA TANASESCU (CONTRACTOR)	3/15/2011	6,504 KB
SECOND HALF 2010 SEMI-ANNUAL STATUS REPORT AND REQUEST FOR LOW RISK CASE CLOSURE	MONITORING REPORT - SEMI-ANNUALLY	SIMONA TANASESCU (CONTRACTOR)	9/24/2010	12,059 KB
FIRST HALF 2010 SEMI-ANNUAL STATUS REPORT	MONITORING REPORT - SEMI-ANNUALLY	SIMONA TANASESCU (CONTRACTOR)	9/24/2010	7,129 KB
2ND QT 2010 OS SPARGE SYSTEM PERFORMANCE REPORT	MONITORING REPORT - QUARTERLY	SIMONA TANASESCU (CONTRACTOR)	8/2/2010	10,300 KB

SECOND HALF OF 2009 SEMI-ANNUAL STATUS REPORT	MONITORING REPORT - SEMI-ANNUALLY	LARRY HIGINBOTHAM (CONTRACTOR)	10/8/2009	8,853 KB
SECOND QUARTER 2009 STATUS REPORT	MONITORING REPORT - QUARTERLY	LARRY HIGINBOTHAM (CONTRACTOR)	6/26/2009	12,261 KB
FIRST QUARTER 2009 STATUS REPORT	MONITORING REPORT - QUARTERLY	LARRY HIGINBOTHAM (CONTRACTOR)	4/6/2009	11,234 KB
FOURTH QUARTER 2008 STATUS REPORT	MONITORING REPORT - QUARTERLY	LARRY HIGINBOTHAM (CONTRACTOR)	1/15/2009	10,895 KB
THIRD QUARTER 2008 STATUS REPORT	MONITORING REPORT - QUARTERLY	LARRY HIGINBOTHAM (CONTRACTOR)	9/30/2008	10,725 KB
SECOND QUARTER 2008 STATUS REPORT	MONITORING REPORT - QUARTERLY	LARRY HIGINBOTHAM (CONTRACTOR)	7/28/2008	11,083 KB
SECOND QUARTER 2007 STATUS REPORT (2 OF 2)	MONITORING REPORT - QUARTERLY	LARRY HIGINBOTHAM (CONTRACTOR)	7/30/2007	3,885 KB
SECOND QUARTER 2007 STATUS REPORT (1 OF 2)	MONITORING REPORT - QUARTERLY	LARRY HIGINBOTHAM (CONTRACTOR)	7/30/2007	12,077 KB
FIRST QUARTER 2007 STATUS REPORT - 2 OF 2	MONITORING REPORT - QUARTERLY	LARRY HIGINBOTHAM (CONTRACTOR)	4/25/2007	3,955 KB
FIRST QUARTER 2007 STATUS REPORT - 1 OF 2	MONITORING REPORT - QUARTERLY	LARRY HIGINBOTHAM (CONTRACTOR)	4/25/2007	11,545 KB
FOURTH QUARTER 2005 STATUS REPORT (2 OF 2)	MONITORING REPORT - QUARTERLY	LARRY HIGINBOTHAM (CONTRACTOR)	1/26/2006	7,664 KB
FOURTH QUARTER 2005 STATUS REPORT (1 OF 2)	MONITORING REPORT - QUARTERLY	LARRY HIGINBOTHAM (CONTRACTOR)	1/26/2006	7,983 KB
3RD QUARTER 2005 STATUS REPORT (2 OF 2)	MONITORING REPORT - QUARTERLY	LARRY HIGINBOTHAM (CONTRACTOR)	11/30/2005	6,604 KB
3RD QUARTER 2005 STATUS REPORT (1 OF 2)	MONITORING REPORT - QUARTERLY	LARRY HIGINBOTHAM (CONTRACTOR)	11/30/2005	8,787 KB

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LUST FUND PAYMENTS DATA

CLAIM NO	PRI ASSGN	PMNT #	DATE REC'D	PAID AMT	CLAIMANT NAME
13541	C, D	1	4/18/2001	$125,971	THRIFTY OIL COMPANY
13541	C, D	2	12/19/2002	$152,172	THRIFTY OIL COMPANY
13541	C, D	3	6/2/2003	$72,377	THRIFTY OIL COMPANY
13541	C, D	4	4/22/2004	$88,357	THRIFTY OIL COMPANY
13541	C, D	5	12/22/2004	$36,463	THRIFTY OIL COMPANY
13541	C, D	6	4/13/2005	$7,121	THRIFTY OIL COMPANY
13541	C, D	7	9/20/2005	$70,152	THRIFTY OIL COMPANY
13541	C, D	8	4/24/2006	$7,703	THRIFTY OIL COMPANY
13541	C, D	9	10/5/2006	$71,478	THRIFTY OIL COMPANY
13541	C, D	10	5/7/2007	$22,917	THRIFTY OIL COMPANY
13541	C, D	11	10/22/2007	$32,409	THRIFTY OIL COMPANY
13541	C, D	12	5/2/2008	$24,841	THRIFTY OIL COMPANY
13541	C, D	13	9/12/2008	$9,723	THRIFTY OIL COMPANY
13541	C, D	14	3/10/2009	$103,135	THRIFTY OIL COMPANY
13541	C, D	15	9/27/2010	$125,181	THRIFTY OIL COMPANY
13541	C, D	16	4/7/2011	$23,857	THRIFTY OIL COMPANY
13541	C, D	17	10/26/2011	$10,859	THRIFTY OIL COMPANY
13541	C, D	18	6/7/2012	$11,606	THRIFTY OIL COMPANY
13541	C, D	19	9/13/2012	$3,034	THRIFTY OIL COMPANY
TOTAL AMOUNT PAID				$999,356	

LUST FUND LETTERS OF COMMITMENT

CLAIM #	PRI ASSGN	AMEND #	FY	LOC AMT	TO ORIGINATOR
13541	C	0	00	$200,000	1/16/2001
13541	C	1	02	$80,000	3/10/2003
13541	C	2	03	$120,000	10/6/2003
13541	C	3	04	$50,000	8/3/2004
13541	C	4	04	$25,340	3/16/2005
13541	C	5	05	$24,660	8/2/2005
13541	C	6	05	$55,000	12/28/2005
13541	C	7	06	$20,000	7/18/2006
13541	C	8	06	$60,000	1/30/2007
13541	C	9	07	$19,711	9/4/2007
13541	C	10	07	$32,409	1/16/2008
13541	C	11	08	$24,841	7/17/2008
13541	C	12	09	$788,039	
TOTAL LOC AMOUNT				$1,500,000	

LUST FUND PREAPPROVAL REQUESTS

CLAIM #	PRI ASSGN	PA #	DATE REC'D	DATE COMPLETED	AMT REQ	AMT APPROVED
13541	C	1	8/20/1999	8/24/1999	$16,157	$16,157
13541	C	2	11/9/1999	11/16/1999	$3,500	$3,500
13541	C	3	6/12/2000	6/20/2000	$289,886	$289,886
13541	C	4	6/14/2000	6/21/2000	$6,285	$6,285
13541	C	5	5/10/2001	6/1/2001	$31,351	$31,351
TOTAL AMT APPROVED						$347,179

LUST FUND 5 YEAR REVIEWS

CLAIM #	PRI ASSGN	REVIEW #	REVIEWER	DATE TO OVERSIGHT	DATE TO CLAIMANT
13541	C	1	212	4/5/2010	6/1/2010
13541	C	2	212	4/21/2011	
13541	C	3	232	4/18/2012	6/25/2012

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER

THRIFTY OIL #383 (T0605900650) - (MAP)

18520 BROOKHURST
FOUNTAIN VALLEY, CA 92708
ORANGE COUNTY
LUST CLEANUP SITE

CLEANUP OVERSIGHT AGENCIES
ORANGE COUNTY LOP *(LEAD) - CASE #: 87UT050*
CASEWORKER: [redacted]
SANTA ANA RWQCB (REGION 8) - *CASE #: 083000824T*
CASEWORKER: [redacted]
CUF Claim #: 13541, 1772
CUF Priority Assigned: C, D
CUF Amount Paid: $998,356

Analytical Results BW-7 - BACK TO REPORT | COMBINE CHEMICAL SYNONYMS | DATA TO REPORT: Groundwater Data Go

Plot Selected Chemicals | PLOT DEPTH-TO-WATER | LOGARITHMIC PLOT | EXPORT TO EXCEL

PLOT	NAME	DATEPA	RAMETER	MATRIX	QUALIFIER	RESULT	UNITS	RL NOTE
☑	BW-7	3/15/2012	BENZENE	W	ND	0	UG/L	
☑	BW-7	3/15/2012	TOLUENE	W	ND	0	UG/L	
☑	BW-7	3/15/2012	DI-ISOPROPYL ETHER (DIPE)	W	ND	0	UG/L	
☑	BW-7	3/15/2012	ETHYLBENZENE	W	ND	0	UG/L	
☑	BW-7	3/15/2012	ETHYL TERT-BUTYL ETHER (ETBE)	W	ND	0	UG/L	
☑	BW-7	3/15/2012	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
☐	BW-7	3/15/2012	METHYL TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
☐	BW-7	3/15/2012	TERT-AMYL METHYL ETHER (TAME)	W	ND	0	UG/L	
☐	BW-7	3/15/2012	TERT-BUTYL ALCOHOL (TBA)	W	ND	0	UG/L	
☐	BW-7	3/15/2012	XYLENES	W	ND	0	UG/L	

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THRIFTY OIL CO.

October 11, 2012 O-126471

Ms. Shyamala Sundaram
Orange County Health Care Agency
Public Health Services
Environmental Health Division
1241 E. Dyer Road, Ste. 120
Santa Ana, CA 92705-5611

Re: Thrifty Oil Co. Station #383
18520 Brookhurst Street
Fountain Valley, California 92708

OCHCA Case No. 87UT50
RWQCB No. 083000824T
Global ID No. T0605900650
Confirmation No. 7009431362

Subject: Semi-annual Status Report – Second Half 2012, and Request for Low-Risk Case Closure

Dear Ms. Sundaram:

Please find enclosed herewith the Semi-annual Status Report for Second Half 2012 for Thrifty Oil Company Station #383 located at 18520 Brookhurst Street in Fountain Valley, California.

Current groundwater results at the site indicate a significant decrease in maximum TBA concentrations, from 6,100 µg/L in the first half of 2012 to 3,400 µg/L in the current sampling event. The residual hydrocarbon plume remains in a stable position, horizontally and vertically. Remaining concentrations beneath the site are expected to further attenuate naturally and additional monitoring of the remaining plume is no longer warranted. The groundwater in the area is not used as a source of public water supply due to seawater intrusion. Therefore, Thrifty respectfully reiterates the request that case closure be granted for this site.

If you have any questions or comments regarding this transmittal, please do not hesitate to contact Simona Tanasescu at (562) 921-3581, Ext. 394, or myself at Ext. 390.

Sincerely,

Chris Panaitescu,
General Manager
Environmental Affairs

cc: Ms. Valerie Jahn-Bull, CRWQCB-SAR
File

13116 Imperial Highway, Santa Fe Springs, CA 90670-0138 • (562) 921-3581 • Fax: (562) 921-7510

SITE SUMMARY: SS# 383		
REPORTING PERIOD: 07/01/2012 to 12/31/2012		
Site address:	TOC SS #383 (ARCO #9743)	
	18520 Brookhurst Street	
	Fountain Valley, CA	
Global ID No.:	T0605900650	
EDF Confirmation No.:	7009431362	
Lead Agency No.:	OCHCA Case No. 87UT50 RWQCB No. 083000824T	
Lead Agency:	OCHCA	
Agency Contact:	Ms. Shyamala Sundaram / 714-433-6262	
Project Contact:	Simona Tanasescu / 562-921-3581 ext. 394	
Field Activity:		
Groundwater monitoring wells onsite:	17	
Groundwater monitoring wells offsite:	2	
Groundwater wells gauged (Number/Date):	19 / 9/20/2012	
Groundwater wells sampled (Number/Date):	11 / 9/20/2012	
Purging method:	Bailer	
Treatment / disposal method during sampling event:	Drums / Safety-Kleen pickup	
Groundwater wells with free product:	0	
Free product thickness (feet):	N/A	
Site Hydrogeology:	Shallow Zone	Deep Zone
Depth to groundwater [feet below top of casing (toc)]:	7.95 to 9.47	10.80 to 12.12
Groundwater elevation (feet above mean sea level):	6.53 to 8.77	5.06 to 5.20
Groundwater gradient and flow direction:	0.008 ft/ft West-Northwest	0.002 ft/ft Southwest
Consistent with previous quarter:	No	No

Groundwater Conditions:	Shallow Zone	Deep Zone
TPH-g concentration (µg/L):	ND<6.6 to 125 (BW-3)	All ND<6.6
Benzene concentration (µg/L):	ND<0.18 /<1.8 to 1.3 (HVE-2)	All ND<0.18
Toluene concentration (µg/L):	ND<0.24 to ND<2.4	All ND<0.24
Ethyl benzene concentration (µg/L):	ND<0.21 to ND<2.1	All ND<0.21
Total Xylenes concentration (µg/L):	ND<0.45 to ND<4.5	All ND<0.45
MTBE concentration (µg/L):	ND<0.19/1.9 to 5.6 (HVE-1)	All ND<0.19
DIPE concentration (µg/L):	ND<0.2 to ND<2.0	All ND<0.2
ETBE concentration (µg/L):	ND<0.23 to ND<2.3	All ND<0.23
TAME concentration (µg/L):	ND<0.19 to ND<1.9	All ND<0.19
TBA concentration (µg/L):	140 to 3,400 (BW-4)	All ND<5.2
Recent Remediation Activity:		
System type:	Ozone Sparging	
Number of Wells Utilized:	8 (4/7/09 to 7/17/09); 5 (11/2/09 to 2/12/10) ; and 5 (from 4/2/10 to 6/28/10)	
Hours of Operation:	5,213 (from 4/7/09 to 6/28/10)	
Ozone injected (lbs)	599.5 (from 4/7/09 to 6/28/10)	
Previous Remediation Activities:		
System type:	DPE (Operated 1/16/01-9/14/07; shut down on 9/14/07)	
Cumulative hydrocarbons extracted as vapor (pounds):	37,172 (through 9/14/07)	
Cumulative gallons of groundwater treated:	599,100 (through 9/14/07)	
Cumulative hours of operation:	23,982 (through 9/14/07)	
Hydrocarbon removal rate-cumulative (vapor phase):	1.55 pounds/hr. (through 9/14/07)	
Soil excavated during dispenser and piping upgrade activities in February 2003:	200.60 tons = 180 pounds of hydrocarbons (based on average 450 mg/kg TPHg concentration in soil samples)	
Free product recovery system operated from 1987 to 1997:	Automatic skimmer system (24-in. well RW, and interception trench system)	
Cumulative free product recovered :	3,559 gallons (from June 1987 to November 1997) = 22,422 pounds of hydrocarbons	
Total Remedial Achievements:		
Hydrocarbons Removed:	**37,172 + 180 +22,422 = 59,774 pounds**	
Groundwater Treated:	**599,100 gallons**	
Ozone Injected:	**599.5 pounds**	

Pursuant to California Code of Regulations, Title 23, Article 11 and Health and Safety Code, Chapter 6.7, Section 25298(c)(4), Thrifty Oil Company (Thrifty) is submitting this Semi-annual Status Report for the second half of 2012 for the above-referenced site. Station #383 is located at the intersection of Brookhurst Street and Ellis Avenue in Fountain Valley, California. Site plot plan is presented in **Figure 1**.

In response to State Water Resources Control Board (SWRCB) Resolution No. 2009-0042, the OCHCA issued a letter dated July 2, 2009 which approved the reduction of groundwater monitoring at this site from quarterly to a semi-annual monitoring schedule 1st and 3rd quarters of each year, until further notice. In the Second Half 2010 Semi-annual Status Report, submitted to the OCHCA on September 22, 2010, Thrifty requested low-risk environmental case closure for the site. In an email to Thrifty dated November 19, 2010, and a letter received by Thrifty on February 18, 2011, the OCHCA declined Thrifty's request for low-risk case closure due to TBA concentrations remaining at the site. In their letter dated October 7, 2010, the OCHCA indicated that reevaluation of the environmental condition of the site could take place after a minimum of four consecutive quarters of groundwater monitoring. With the concurrence of the OCHCA, Thrifty modified the frequency of groundwater monitoring and sampling from semi-annually to quarterly to meet the data collection for four consecutive quarters. Following the completion of the four consecutive quarterly monitoring episodes, in the *Quarterly Status Report for the Fourth Quarter 2011*, Thrifty indicated that it would return to the groundwater monitoring on a semi-annual basis with sampling in the 1st and 3rd quarters. Presented in this report are the results of groundwater monitoring activities performed on September 20, 2012 for the second half of 2012. These activities were conducted in the field by Earth Management Company (EMC). The dual-phase extraction (DPE) remedial system was shut down on September 14, 2007. Operation of an ozone sparging system was initiated on April 7, 2009, and was operational for a total of three 3-month episodes through June 28, 2010.

Deeper Groundwater Assessment

A site assessment workplan (SAWP) to assess the deeper groundwater beneath the site was submitted to the OCHCA on January 17, 2001. This SAWP was submitted to comply with directives in the OCHCA letter dated December 19, 2000. The SAWP was approved by the OCHCA in their letter dated April 12, 2001. To implement the SAWP, three deep groundwater monitoring wells (DW-1 through DW-3) were installed between July 16 and 19, 2001. A site assessment report dated September 28, 2001 documenting the installation and sampling of these wells was submitted on October 1, 2001, and the wells have been incorporated into the groundwater monitoring program.

Groundwater Monitoring

Site activities performed during this monitoring period included groundwater monitoring and sampling of the monitoring wells. Summary of historical quarterly monitoring data is presented in **Table 1**; current groundwater data is summarized in the **Summary Table**. Depth to groundwater measurements in the field was performed using an electronic water level probe. Top of well casing

(TOC) was used as datum. Groundwater depths were logged in the field data forms. Copies of the field data forms and general field procedures for groundwater gauging, purging, and sampling are included in **Appendix A.** Depth to groundwater in the shallow zone wells ranged between 7.95 feet to 9.47 feet below top of well casings, as measured on September 20, 2012. No free product was observed in any of the monitoring wells during the monitoring event. Based on the collected data from the September 20, 2012 gauging event, a shallow zone groundwater elevation contour map was prepared which is presented in **Figure 2A.** Groundwater flow was to the west-northwest under a gradient of 0.008 ft/ft. Water level data from the joint monitoring events conducted previously during the second and third quarters of 2000 indicate that the Thrifty site was downgradient from the ARCO and Beacon Bay properties to the north, and therefore may be a receptor for any contamination originating from these properties.

The deep zone wells (DW-1 through DW-3) were gauged on September 20, 2012 by EMC. Depth to water in the deep zone wells ranged from 10.80 feet to 12.12 feet below top of well casings. Groundwater flow in the deep zone was to the southwest under a gradient of 0.002 ft/ft. Significant water level fluctuations have been observed in the deep zone wells since their installation in August 2001. The groundwater levels observed on September 20, 2012 in the deep zone are presented in **Figure 2B.**

Groundwater Sampling

As part of our groundwater monitoring program, groundwater samples were collected from monitoring wells BW-1 through BW-5, HVE-1, HVE-2, and well "A", and deep zone wells DW-1 through DW-3 on September 20, 2012, by EMC. Wells BW-6 through BW-8 are on an annual sampling schedule (first quarter only), and therefore were not sampled. Following their collection, water samples were delivered to a state-certified laboratory in a cooler containing blue ice and under strict chain-of-custody procedures. The laboratory analyses of the groundwater samples included total petroleum hydrocarbons as gasoline (TPH-G), BTEX, and oxygenated compounds (including MTBE) using EPA methods 8015 (CA modified) and 8260B, respectively. A summary of the TPHg, BTEX, and MTBE and oxygenated compound analytical results are presented in **Table 1, Table 2,** and the **Summary Table.** Laboratory analytical results of this quarterly groundwater sampling are included in **Appendix B.** Groundwater purged from the wells was placed into Department of Transportation (DOT)-approved 55-gallon drums and stored on-site pending recycling. The disposal documentation for purged groundwater generated during previous quarterly sampling events is included in **Appendix C.** Disposal documentation for groundwater generated during the current sampling period is not yet available, and therefore is expected to be included in the first half of 2013 status report. Sampling procedures are included in **Appendix A.**

Summary of Findings

Analytical results of the groundwater samples collected on September 20, 2012 indicate that:

- TPHg was detected in one shallow zone well (BW-3) at a concentration of 125µg/L and was not detected in the other seven shallow zone wells sampled this reporting period. TPHg was not detected in any of the deep zone wells.

- Benzene was detected in one shallow zone well (HVE-2) at a concentration of 1.3µg/L and was not detected in the other seven shallow zone wells sampled this reporting period. Benzene was not detected in any of the deep zone wells.

- Ethylbenzene, toluene, and total xylenes were not detected in any of the shallow or deep zone wells sampled this period.

- MTBE was detected in five shallow zone wells at concentrations ranging from 1.6 µg/L to 5.6 µg/L, and was not detected in the other three shallow zone wells. MTBE was not detected in any of the deep zone wells.

- The oxygenated compound TBA was detected in the eight shallow zone wells at concentrations ranging from 140 µg/L to 3,400 µg/L, and was not detected in the other three shallow zone wells. DIPE, ETBE and TAME were not detected in any of the shallow zone wells. No oxygenated compounds were detected in the deep zone wells.

TPHg, benzene, MTBE, and TBA concentrations in groundwater for the shallow zone wells, are plotted in **Figure 3, Figure 4, Figure 5** and **Figure 6,** respectively. The distribution of hydrocarbons in the deep zone wells is shown in **Figure 7**.

DPE Remediation System Operation

A dual-phase extraction (DPE) system was installed and began operating at the site on January 16, 2001. The system was initially connected to 10 extraction wells; five additional DPE wells were installed and added to the system in the first quarter of 2006 to enhance extraction operations. Following rebound testing of the system in early September 2007, the system was shut down on September 14, 2007 due to very low influent and individual well vapor concentrations.

A graph showing hydrocarbons destroyed through time by the DPE system is shown in **Figure 8**. The treatment system layout is shown in **Figure 9.** As of September 14, 2007, a total of 37,172 pounds of vapor-phase hydrocarbons were destroyed by the vapor extraction operations, and a total of 599,100 gallons of groundwater had been treated and discharged.

Submittal and Implementation of Corrective Action Plan for Ozone Sparging

A Corrective Action Plan (CAP) was submitted on March 3, 2008, which recommended that an ozone sparging system be installed, and operated at the site for at least three months, to remediate the residual dissolved hydrocarbons beneath the site. The CAP was conditionally approved by the

OCHCA in their letter dated May 1, 2008; the OCHCA required that baseline soil and groundwater samples be collected and analyzed for various parameters (including metals, arsenic, chromium, bromide, and bromate) prior to start-up of the ozone sparging system. To implement the CAP, eight ozone sparge points were installed, and the baseline soil and groundwater samples were collected from the sparge point locations in early July 2008. These activities were summarized in an *Ozone Sparge Well Installation Report* (Report) dated September 17, 2008, prepared by Environstrategy Consultants, Inc. (Environstrategy). Results from this investigation indicated very low concentrations of chromium in soil and groundwater. Based on these findings, the Report recommended full implementation of the proposed ozone sparging system installation and operation at the site.
The OCHCA conditionally approved implementing the installation and operation of the ozone sparging system in their letter dated March 26, 2009. The construction of the ozone sparging system was completed in early April 2009, including installation of conveyance piping to the ozone sparging wells and placement/hookup of the ozone sparging equipment within the existing remediation compound at the site. A report detailing the installation and start-up of the ozone sparging system was submitted on May 15, 2009. Operation of the ozone sparging system was initiated on April 7, 2009. The locations of the ozone sparging wells are shown in **Figure 10**.

From April 7, 2009 to July 17, 2009 the ozone sparge system operated for 1,576 hours, and injected 181 pounds of ozone into groundwater beneath the site through sparge points OS-1, OS-2, and OS-4 through OS-9. Environstrategy prepared the *Ozone Sparging System Performance Report*, which was submitted to the OCHCA on August 13, 2009.

As proposed in the Second Half 2009 Status Report dated October 6, 2009, Thrifty resumed ozone sparging for an additional period of approximately three months, from November 2, 2009 through February 12, 2010. The August 2009 semi-annual groundwater sampling results indicated the highest TBA concentrations in the area of wells BW-4 and HVE-2, therefore the ozone injection in groundwater was focused in the area of these wells. Geohydrologic Consultants, Inc. (GHC) performed the operation and maintenance of the ozone sparging system using sparge points OS-1, OS-2, OS-6, OS-7, and OS-8. The system injected 217.2 pounds of ozone in 1,889 hours during the second period of operation. GHC prepared the *Ozone Sparge System Performance Report (Fourth Quarter 2009 and First Quarter 2010)*, which was submitted to the OCHCA on April 23, 2010.

Based on the results of the second ozone sparging episode, Thrifty extended the ozone sparging operation for another three months, as approved by the OCHCA on March 8, 2010, from April 2 to June 28, 2010. GHC summarized the results of this latest ozone sparging period in the *Ozone Sparge System Performance Report (Second Quarter 2010)*, which was submitted to the OCHCA on August 2, 2010.

During the three periods of operation, between April 7, 2009 and June 28, 2010, the ozone sparge system ran for a total of 5,213 hours and injected 599.5 pounds of ozone.

On September 22, 2010, Thrifty submitted to the OCHCA the *Second Half 2010 Semi-annual Status Report and Request for Low Risk Case Closure*. On February 18, 2011 Thrifty received OCHCA's letter dated October 7, 2010 denying Thrifty's request for low-risk case closure for the site, and

indicated that reevaluation of the site could take place after four consecutive quarters (one year) of monitoring. Thrifty completed the four consecutive quarters of groundwater monitoring during 2011, and returned to groundwater monitoring on a semi-annual basis starting with the first half 2012 sampling event.

Conclusions and Request for Site Closure

The primary potential source of further hydrocarbon contamination at the site was eliminated more than twenty years ago with the removal of the single-walled steel USTs and associated piping in May 1987. In addition, dispenser and piping upgrades were conducted in February 2003. Thrifty began groundwater monitoring activities at the site in July 1987, and there are currently 15 groundwater wells monitored at the site. No product has been detected in any of the site wells for the last ten years.

Intensive remediation activities have been conducted at the site since 1987. Thrifty believes that the practical engineering limits of remediation have been reached and a consideration for low risk regulatory case closure is appropriate for this site. As a result of the above mentioned remedial efforts, all constituents of concern (BTEX, and oxygenates) have been reduced to non-detectable or to very low concentrations, with the exception of TBA which is expected to further degrade and shrink through natural attenuation.

As required by the OCHCA, Thrifty monitored the residual dissolved TBA plume for four consecutive quarters (First Quarter 2011 through Fourth Quarter 2011) before reassessing the site condition for low-risk case closure. The monitoring events performed in the first quarter 2012 and third quarter 2012, now make six consecutive events of verification monitoring. Results of the latest six verification monitoring events indicate that the residual dissolved TBA plume has remained in a stable configuration, with concentrations generally reduced in the site wells. Charts showing TBA concentrations in site wells are included in **Appendix D**.

As previously discussed in this report, water level data from the joint monitoring events conducted during the second and third quarters 2000 indicated that the Thrifty site was downgradient from the ARCO and Beacon Bay properties to the north. The ARCO station has an open environmental case since 1985 (OCHCA case no. 85UT085), and the Beacon Bay property had an environmental case between 1989 and 2006 (OCHCA case no. 89UT71). Historically, the TBA concentrations in groundwater at the ARCO site have been significantly higher than the TBA concentrations existent beneath Thrifty site. The Thrifty site may therefore be a receptor of contamination originating from the ARCO and Beacon Bay properties to the north.

The extensive historical remedial and assessment measures conducted at the site demonstrate that no further corrective action or assessment is warranted, thus, it is recommended that this case be closed. The following factors support the request for closure: (1) The primary source of contamination was removed twenty-five years ago; (2) A series of remedial efforts including over-excavation of impacted soils, product removal, operation of a dual-phase extraction system and ozone sparging

have removed nearly all of the hydrocarbon mass beneath the site, and the residual mass will be difficult to remove regardless of the level of additional cleanup efforts; (3) The extent of hydrocarbon constituents in soil and groundwater has been reasonably delineated; (4) The remaining TBA concentrations are expected to attenuate naturally; (5) No benzene is detected in any of the groundwater samples. Therefore, human health risk due to vapor intrusion is essentially non-existent; (6) The residual low contamination remaining beneath the site appears not to pose any threat to human health or the environment.

Current groundwater results at the site indicate a significant decrease in TBA concentrations to a maximum of 3,400 µg/L from the 6,100 µg/L reported in the first half of 2012. The residual TBA plume remains in a stable position, horizontally and vertically, and the present concentrations are expected to further attenuate naturally. The groundwater in the area is not used as a source of public water supply due to seawater intrusion. Based on the above, Thrifty respectfully reiterates the request that case closure be granted for this site.

Planned Activities

- Pending issuance of site closure, Thrifty will monitor and sample the wells on a semi-annual basis in compliance with State Water Resources Control Board Resolution No. 2009-0042. Semi-annual monitoring at this site will be conducted during the 1st and 3rd quarters of each year. Thrifty will continue to use the purge sampling method.

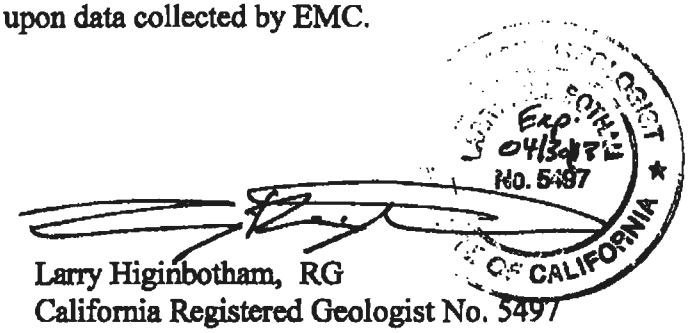
- Data from the next semi-annual sampling event, in the first half 2013, will be included in a semi-annual monitoring report which is expected to be submitted in April 2013.

Interpretations expressed herein are based upon data collected by EMC.

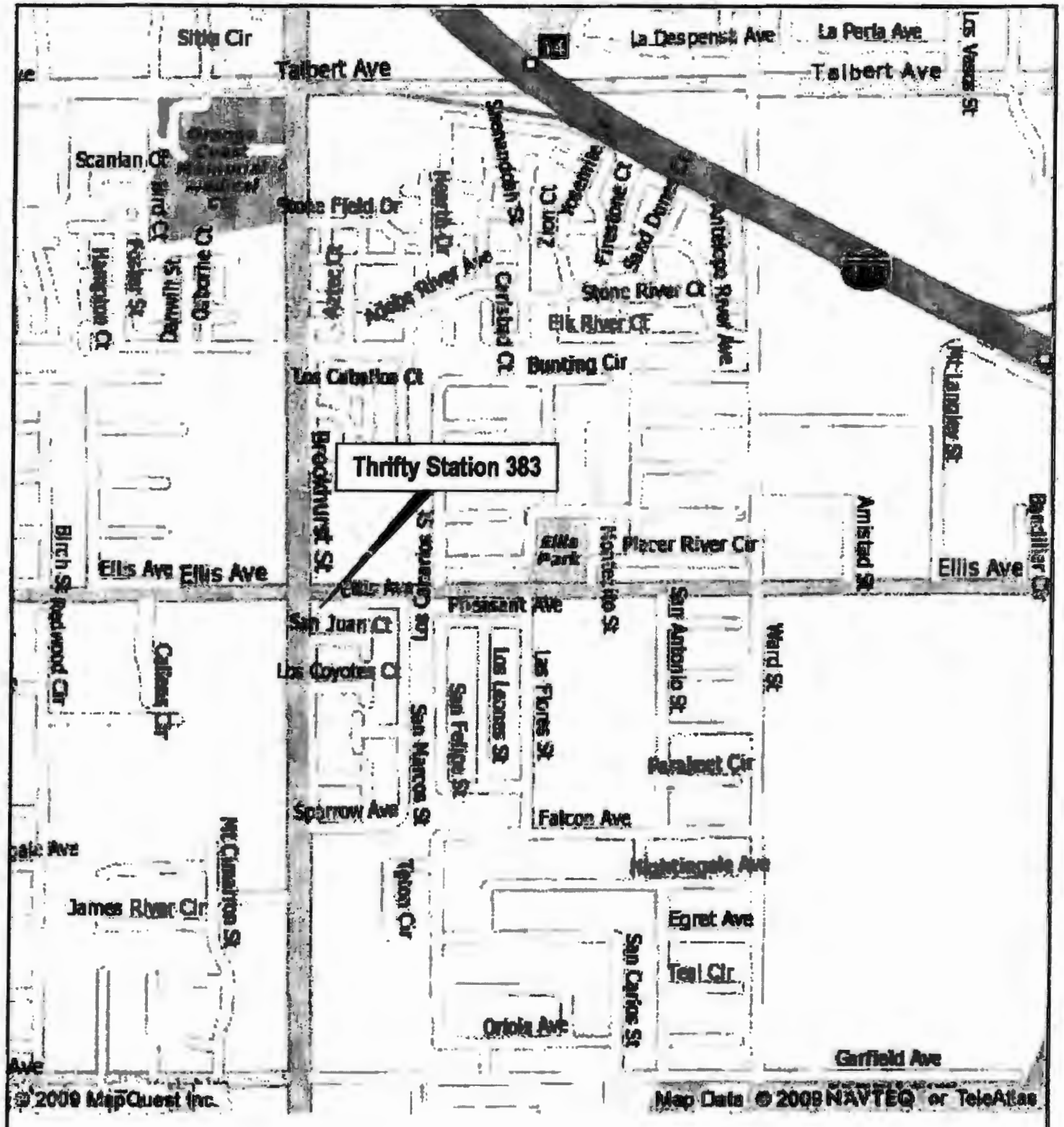
Prepared by:



Simona Tanasescu
Project Manager



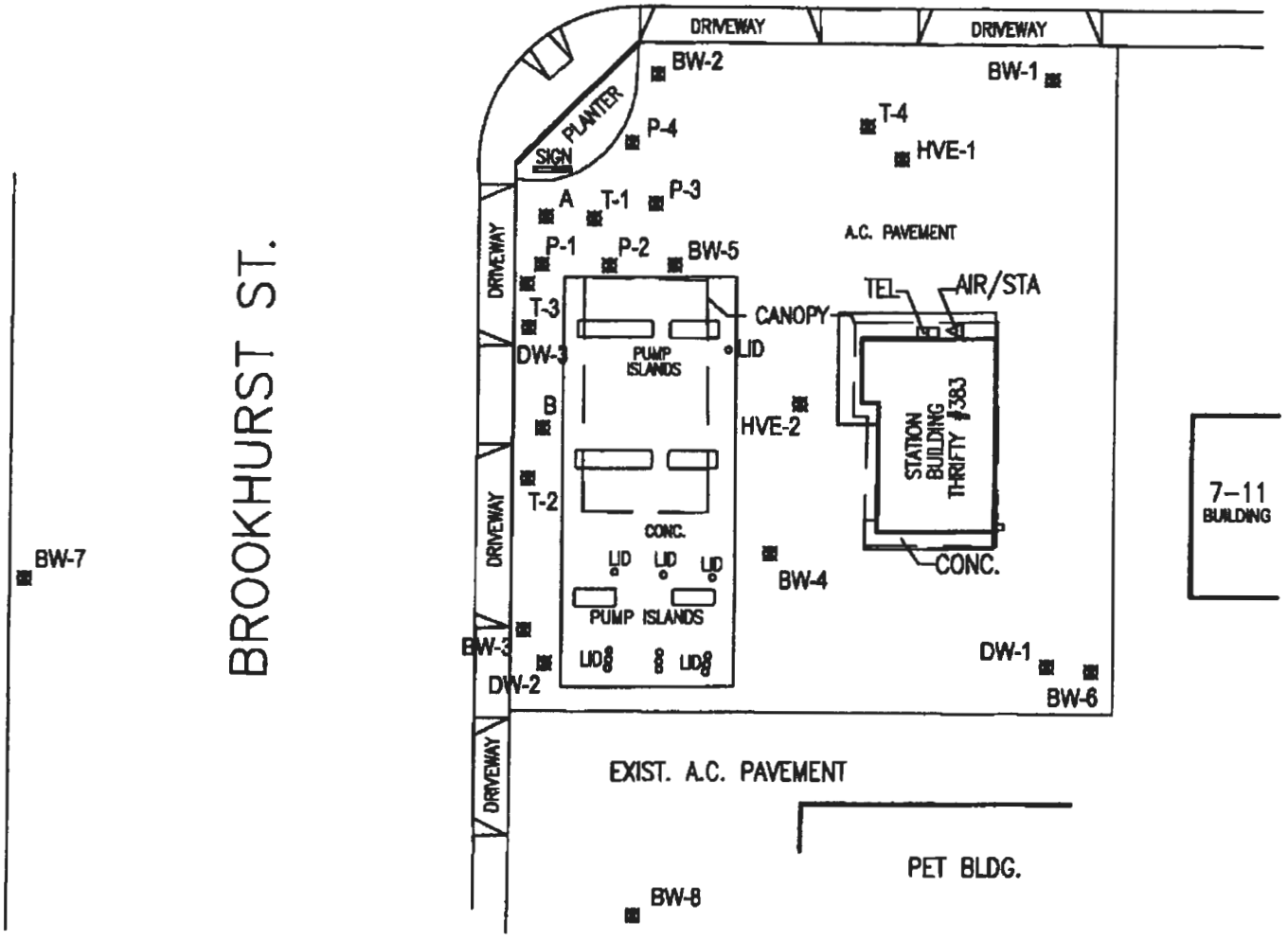
Larry Higinbotham, RG
California Registered Geologist No. 5497



SITE LOCATION MAP
Thrifty Service Station No. 383
18520 Brookhurst St., Fountain Valley, California

THRIFTY OIL CO.
13116 Imperial Highway
Santa Fe Springs, CA 90670

FIGURE 1



LEGEND

■ GROUNDWATER MONITORING WELL

N

0' 40'

Approximate Scale in Feet

SITE PLAN

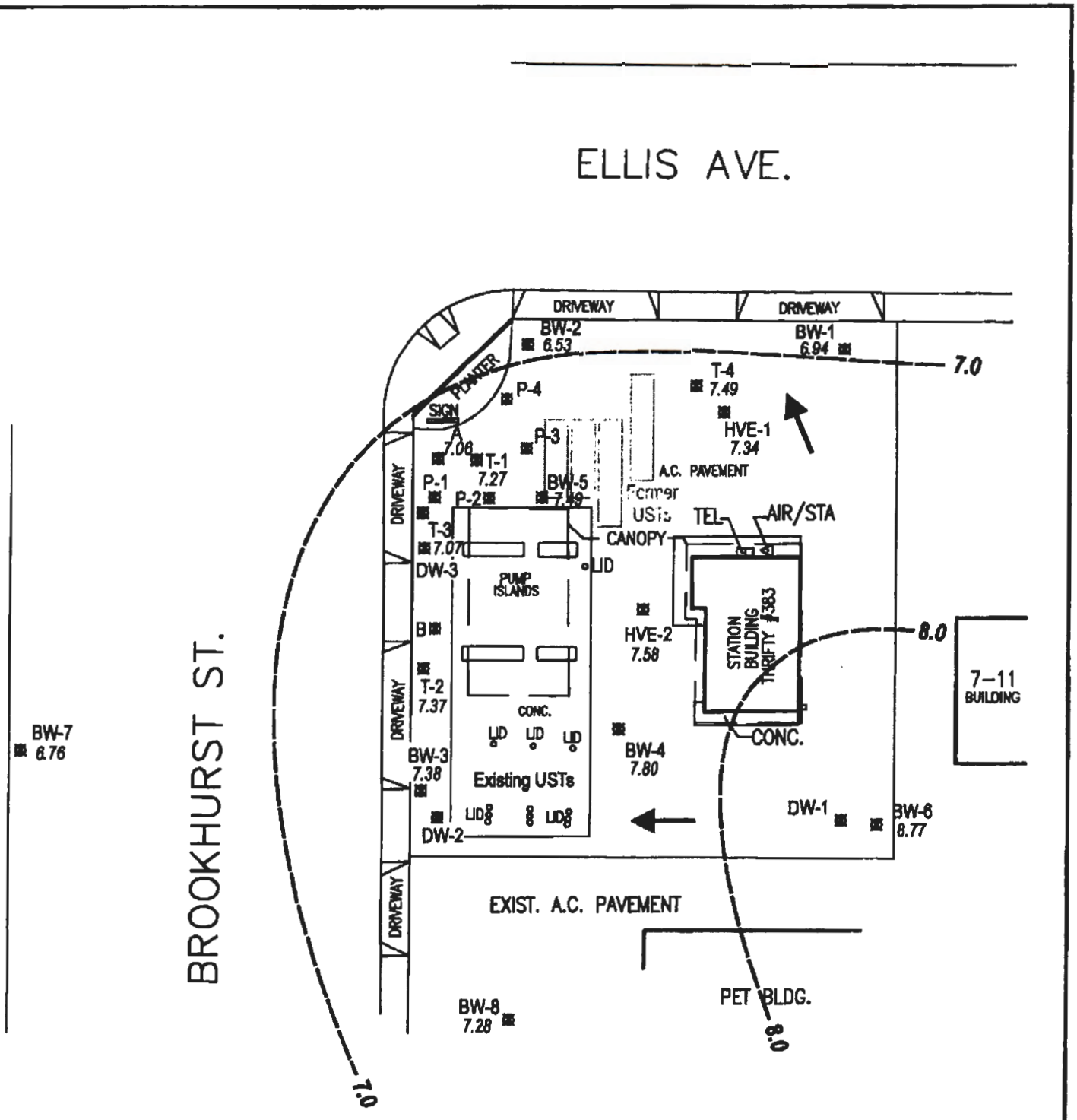
Thrifty Service Station No. 383

18520 Brookhurst St., Fountain Valley, California

THRIFTY OIL CO.
13116 Imperial Highway
Santa Fe Springs, CA 90670

Drawing date: 8/7/2009

FIGURE 2



LEGEND

▣	GROUNDWATER MONITORING WELL LOCATION
7.49	ELEVATION OF WATER TABLE (FEET ABOVE MSL)
———	GROUNDWATER ELEVATION CONTOUR
→	APPROXIMATE GROUNDWATER FLOW DIRECTION

N

0' 40'

Approximate Scale in Feet

GROUNDWATER ELEVATION CONTOURS ON SHALLOW ZONE

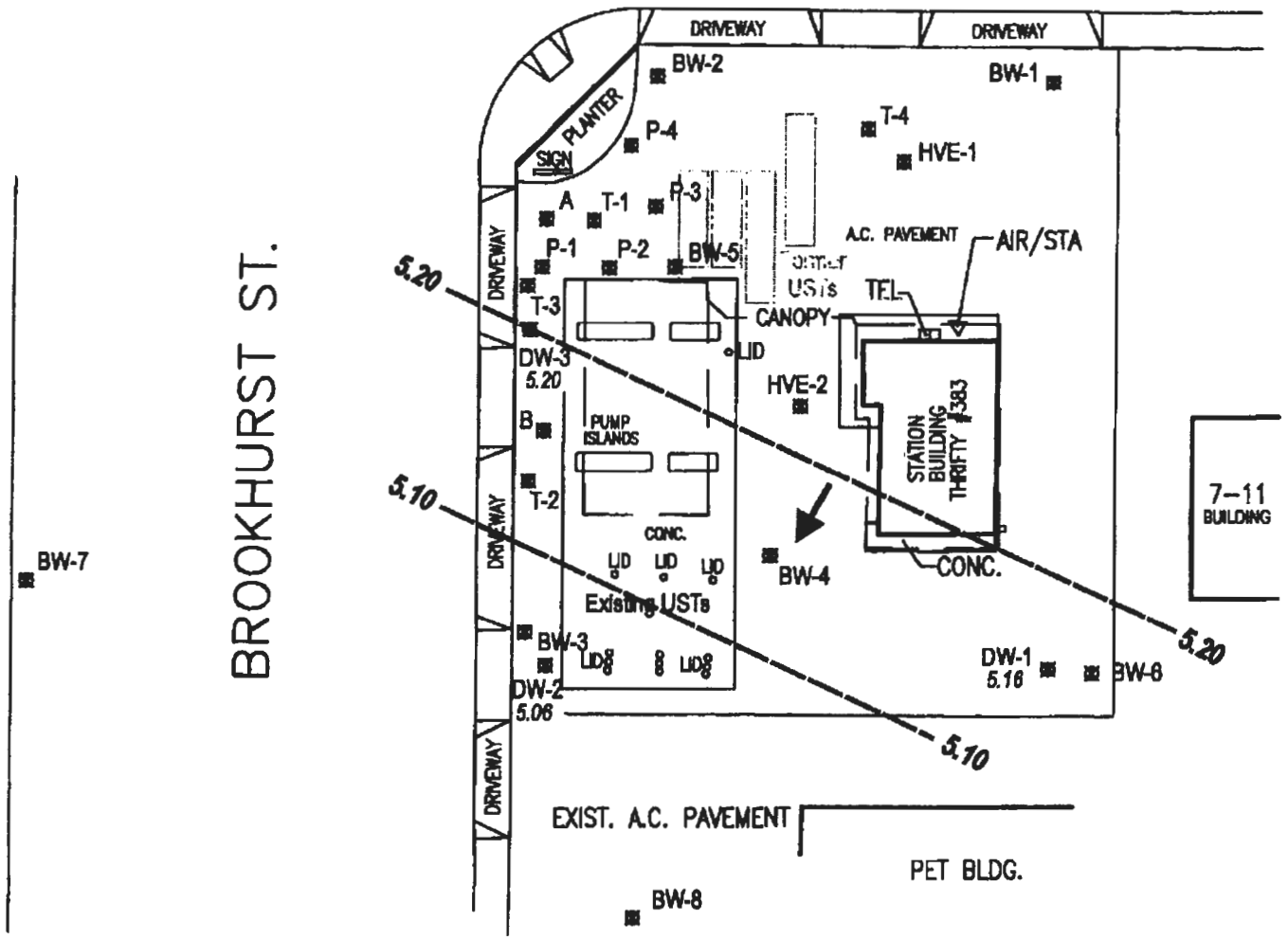
Thrifty Service Station No. 383

18520 Brookhurst St., Fountain Valley, California

THRIFTY OIL CO.
13116 Imperial Highway
Santa Fe Springs, CA 90670

Date of Sampling: 9/20/2012

FIGURE 2A



LEGEND

■	GROUNDWATER MONITORING WELL LOCATION
9.11	ELEVATION OF WATER TABLE (FEET ABOVE MSL)
——	GROUNDWATER ELEVATION CONTOUR
→	APPROXIMATE GROUNDWATER FLOW DIRECTION

N

0' 40'

Approximate Scale In Feet

GROUNDWATER ELEVATION CONTOURS ON DEEP ZONE

Thrifty Service Station No. 383

18520 Brookhurst St., Fountain Valley, California

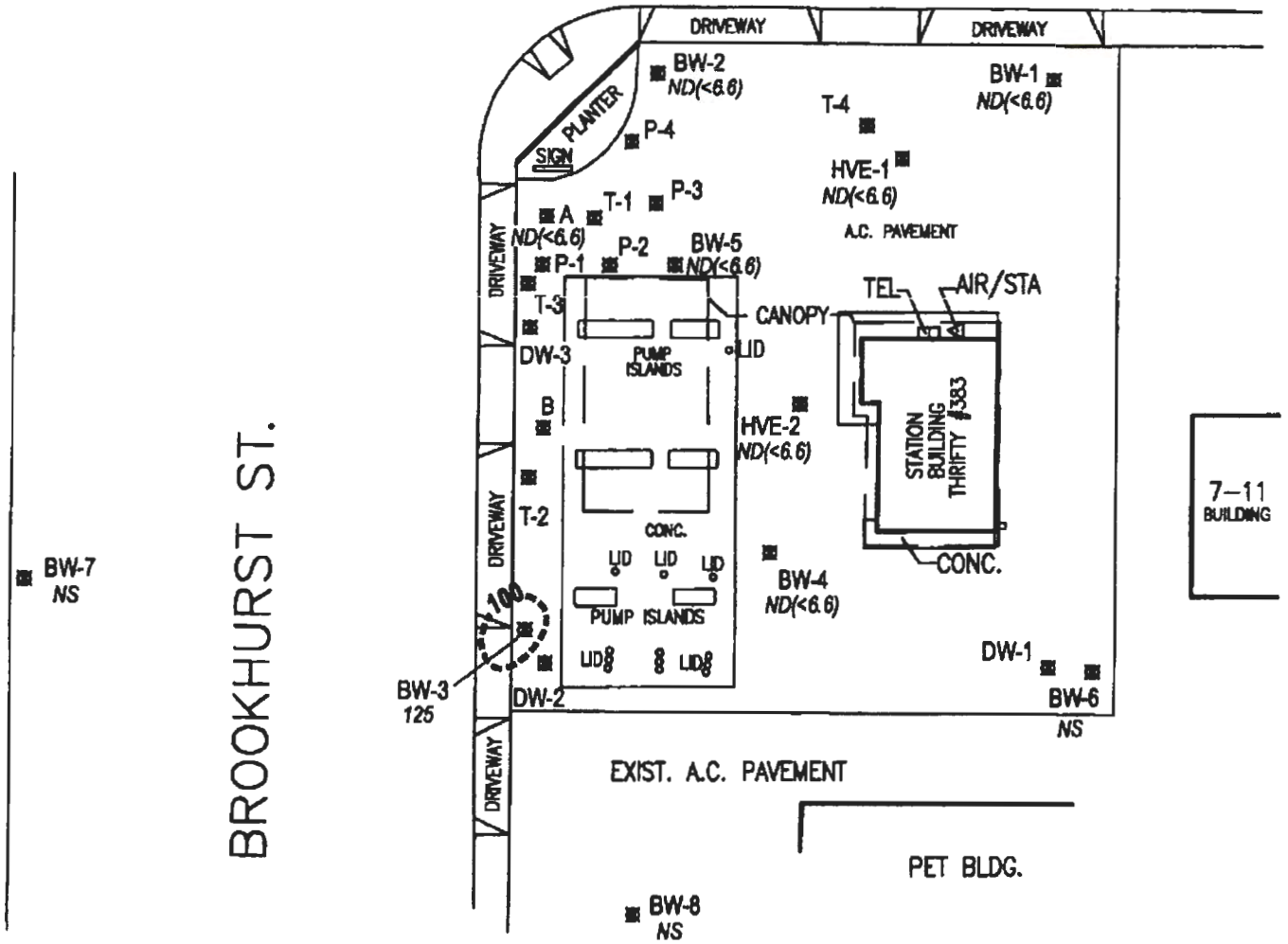
THRIFTY OIL CO.

13116 Imperial Highway

Santa Fe Springs, CA 90670

Date of Sampling: 9/20/2012

FIGURE 2B



LEGEND

■	GROUNDWATER MONITORING WELL LOCATION
96	TPHg CONCENTRATION REPORTED IN µg/L
<6.6	TPHg CONCENTRATION BELOW METHOD DETECTION LIMIT AS INDICATED
- - - - -	TPHg ISOCONCENTRATION CONTOUR
NS	NOT SAMPLED

N

0' 40'

Approximate Scale in Feet

TPHg ISOCONCENTRATION CONTOURS ON SHALLOW GROUNDWATER

Thrifty Service Station No. 383

18520 Brookhurst St., Fountain Valley, California

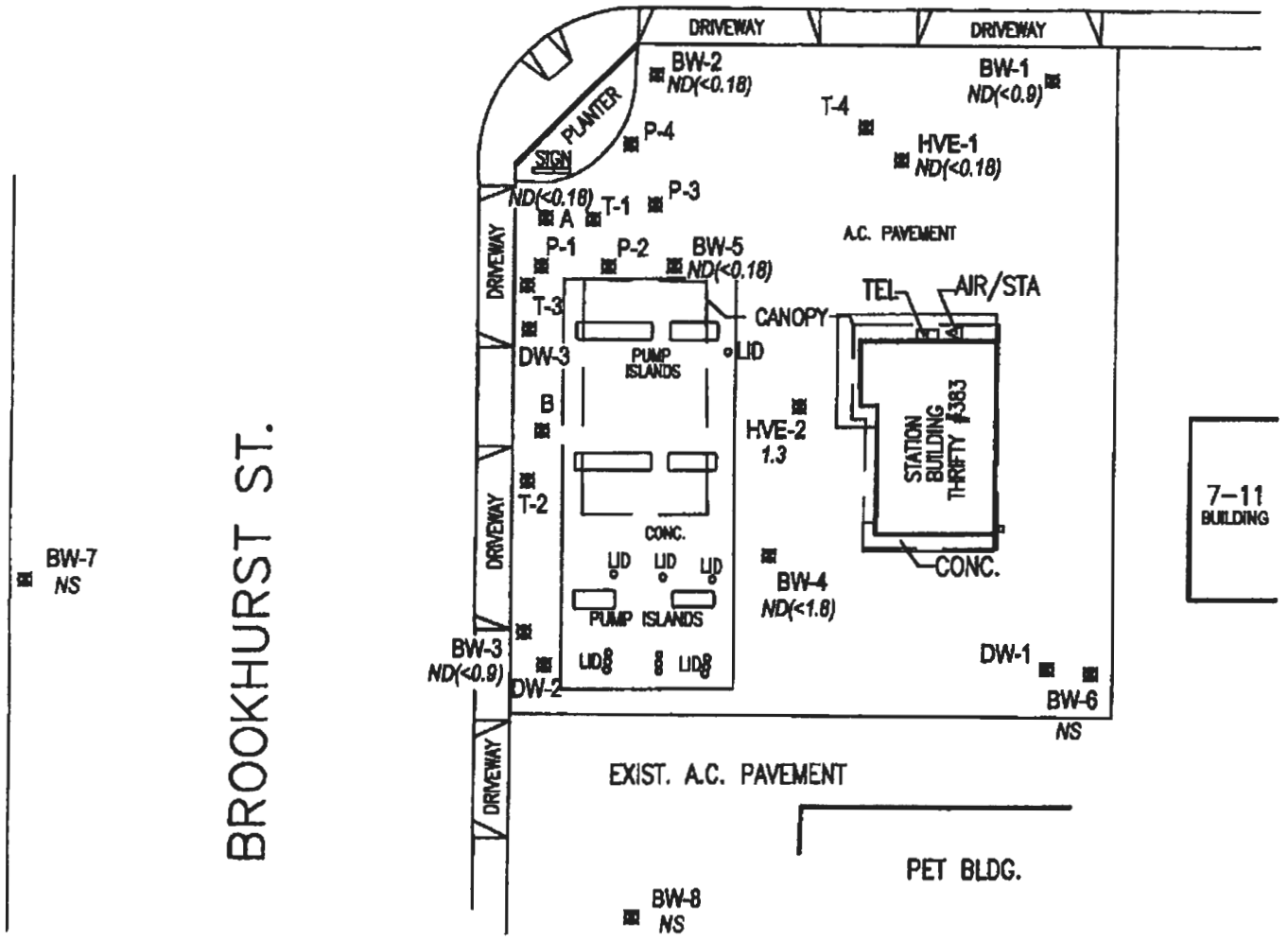
THRIFTY OIL CO.

13116 Imperial Highway

Santa Fe Springs, CA 90670

Date of Sampling: 9/20/2012

FIGURE 3



LEGEND

▣	GROUNDWATER MONITORING WELL LOCATION
<0.18	BENZENE CONCENTRATIONS BELOW METHOD DETECTION LIMIT AS INDICATED, REPORTED IN µg/L
NS	NOT SAMPLED

0' 40'

Approximate Scale In Feet

BENZENE ISOCONCENTRATION CONTOURS ON SHALLOW GROUNDWATER

Thrifty Service Station No. 383

18520 Brookhurst St., Fountain Valley, California

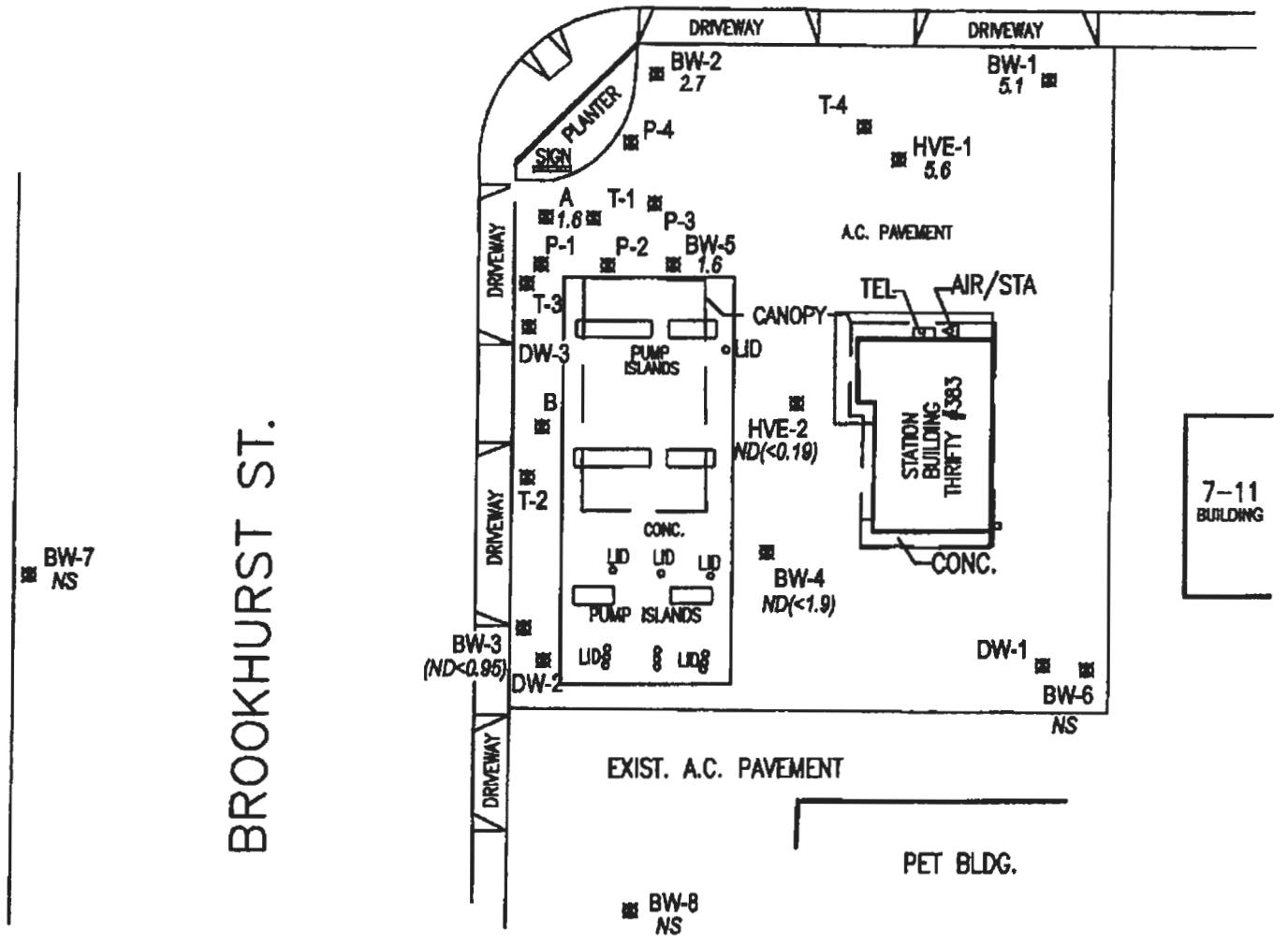
THRIFTY OIL CO.

13116 Imperial Highway

Santa Fe Springs, CA 90670

Date of Sampling: 09/20/2012

FIGURE 4



LEGEND

▣	GROUNDWATER MONITORING WELL LOCATION
1.6	MTBE CONCENTRATIONS REPORTED IN µg/L
<0.19	CONCENTRATION BELOW METHOD DETECTION LIMIT AS INDICATED
NS	NOT SAMPLED

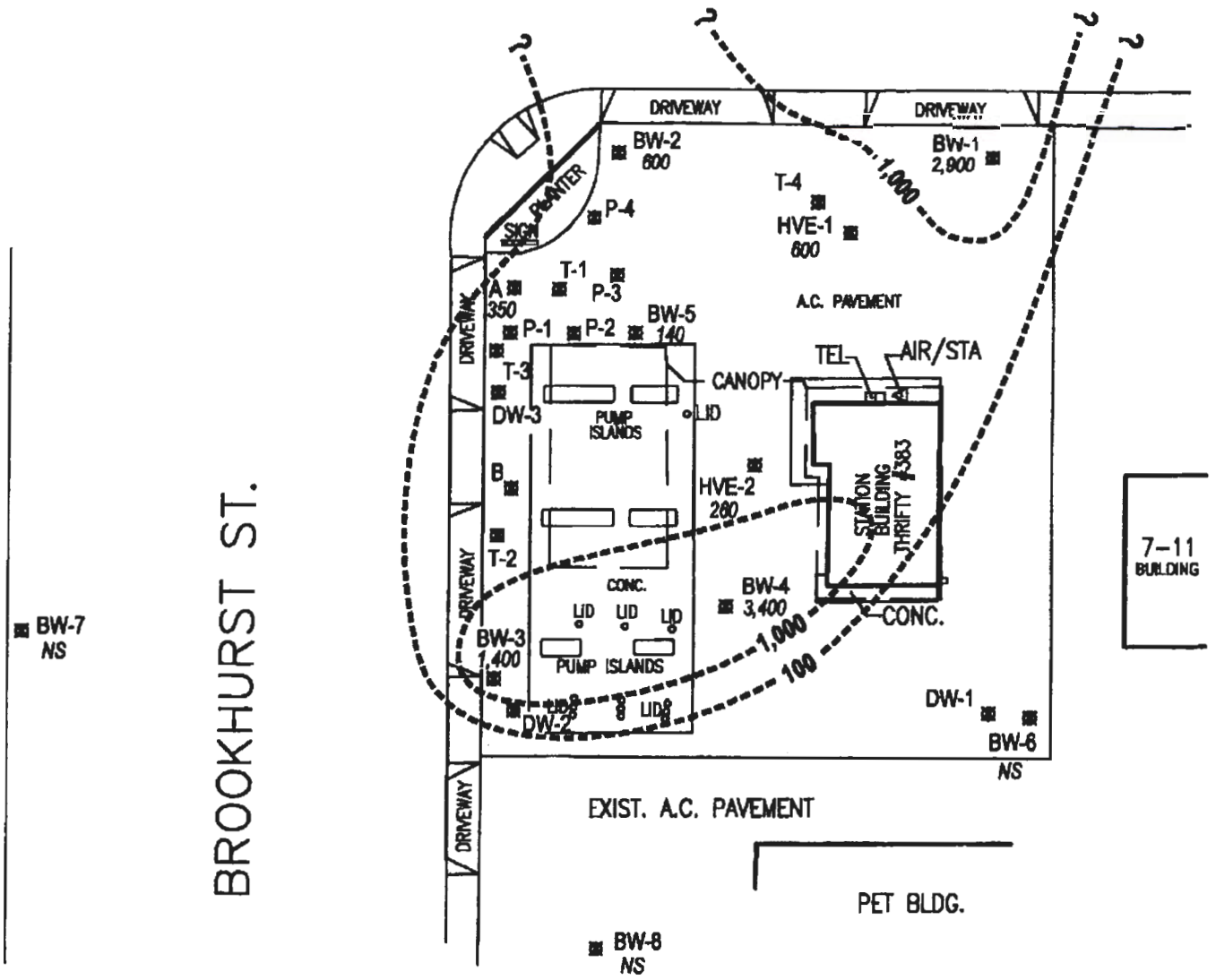
0' 40'
Approximate Scale in Feet

MTBE ISOCONCENTRATION CONTOURS ON SHALLOW GROUNDWATER
Thrifty Service Station No. 383
18520 Brookhurst St., Fountain Valley, California

THRIFTY OIL CO.
13116 Imperial Highway
Santa Fe Springs, CA 90670

Date of Sampling: 9/20/2012

FIGURE 5



LEGEND

- GROUNDWATER MONITORING WELL LOCATION
- 228 TBA CONCENTRATION REPORTED IN µg/L
- * TBA CONCENTRATION ANOMALOUSLY HIGH DUE TO REDUCED WATER COLUMN
- TBA ISOCONCENTRATION CONTOUR

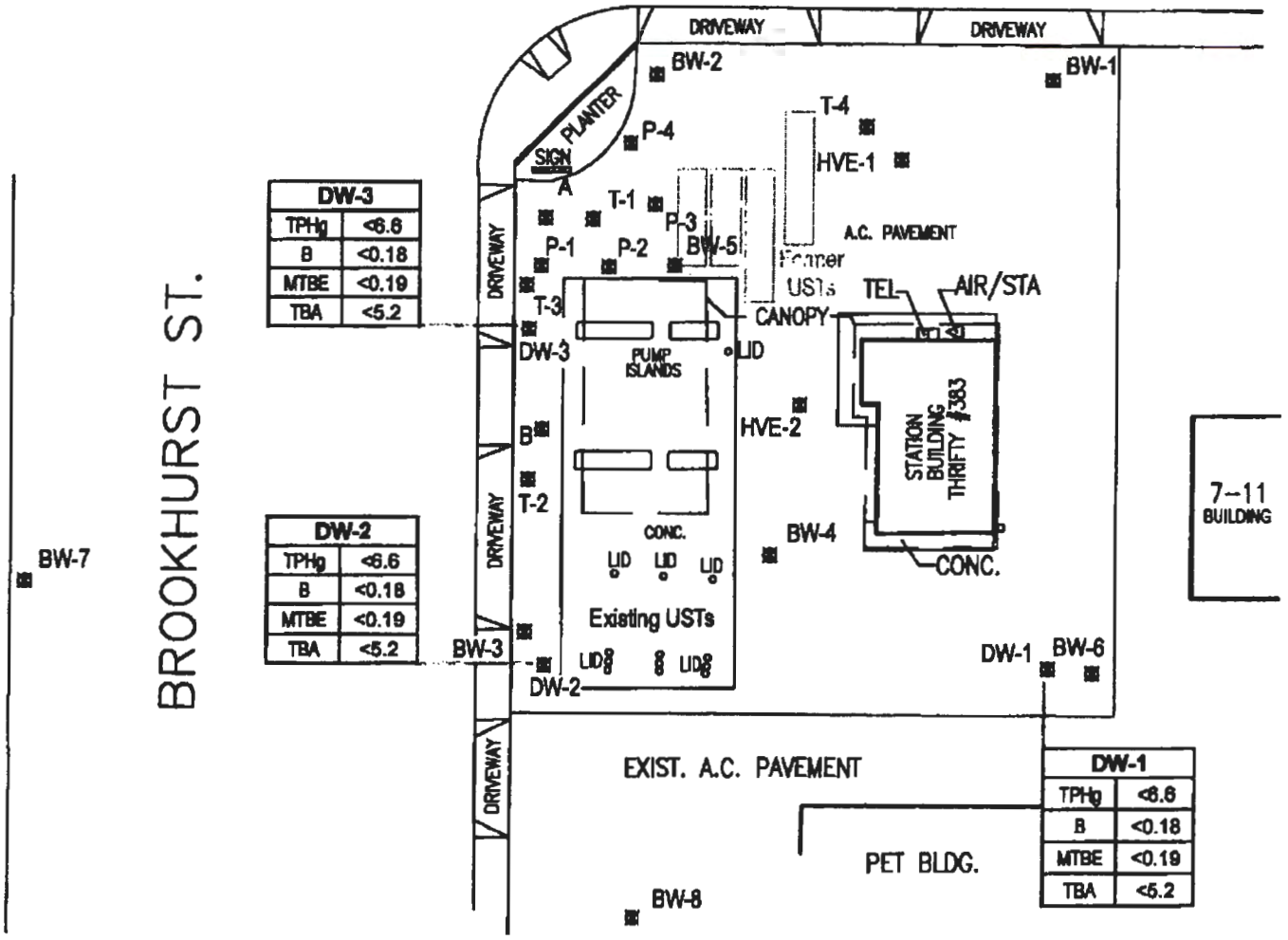
0' 40'
Approximate Scale in Feet

TBA ISOCONCENTRATION CONTOURS ON SHALLOW GROUNDWATER
Thrifty Service Station No. 383
18520 Brookhurst St., Fountain Valley, California

THRIFTY OIL CO.
13116 Imperial Highway
Santa Fe Springs, CA 90670

Date of Sampling: 9/20/2012

FIGURE 6



LEGEND

GROUNDWATER MONITORING WELL LOCATION

DW-1	
TPHg	<6.6
B	<0.18
MTBE	<0.19
TBA	<5.2

CONCENTRATIONS OF DISSOLVED CHEMICALS OF CONCERN REPORTED IN µg/L

0' 40'

Approximate Scale in Feet

CONCENTRATIONS OF DISSOLVED CHEMICALS IN DEEP GROUNDWATER

Thrifty Service Station No. 383

18520 Brookhurst St., Fountain Valley, California

THRIFTY OIL CO.
13116 Imperial Highway
Santa Fe Springs, CA 90670

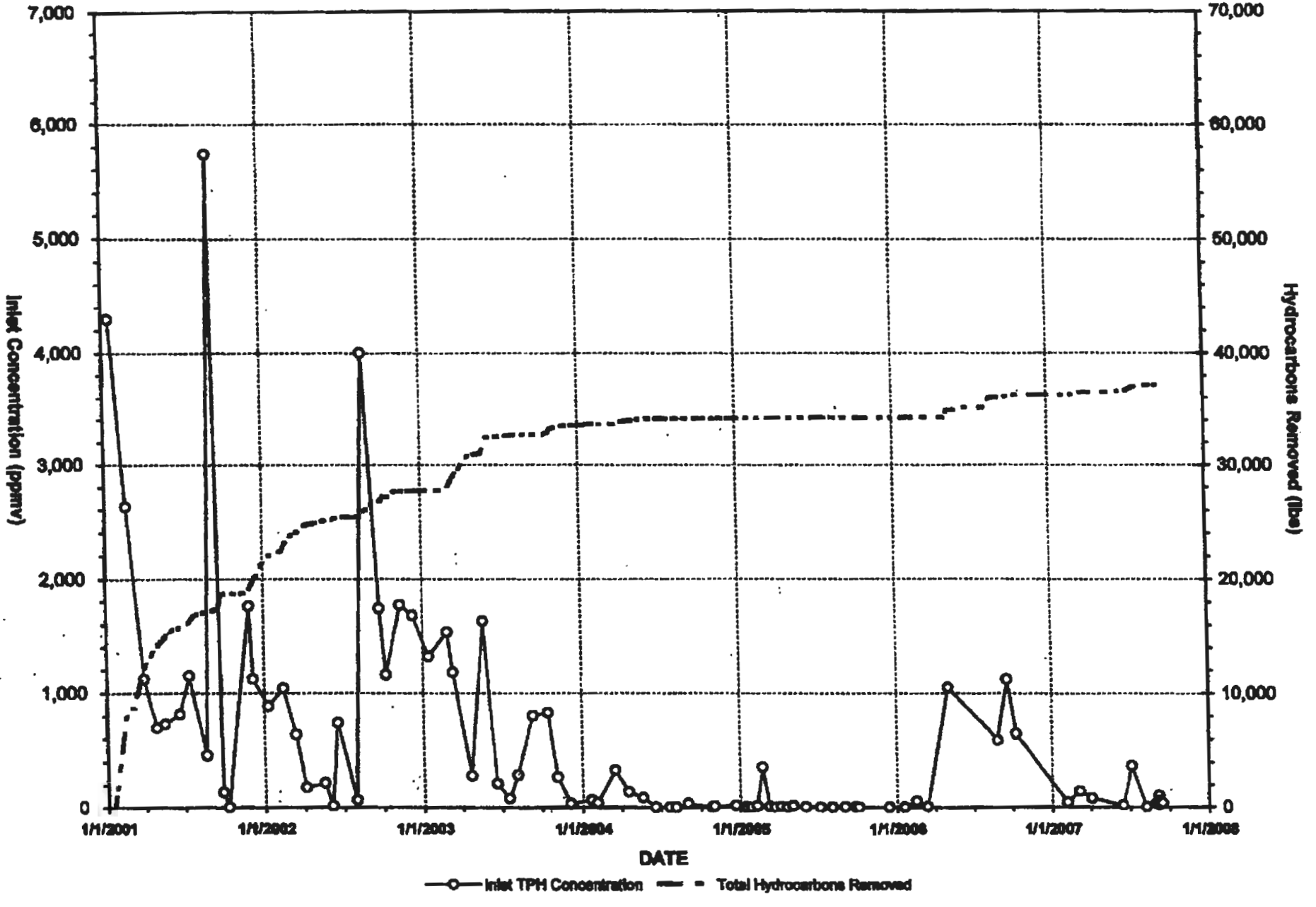
Sample date: 9/20/2012

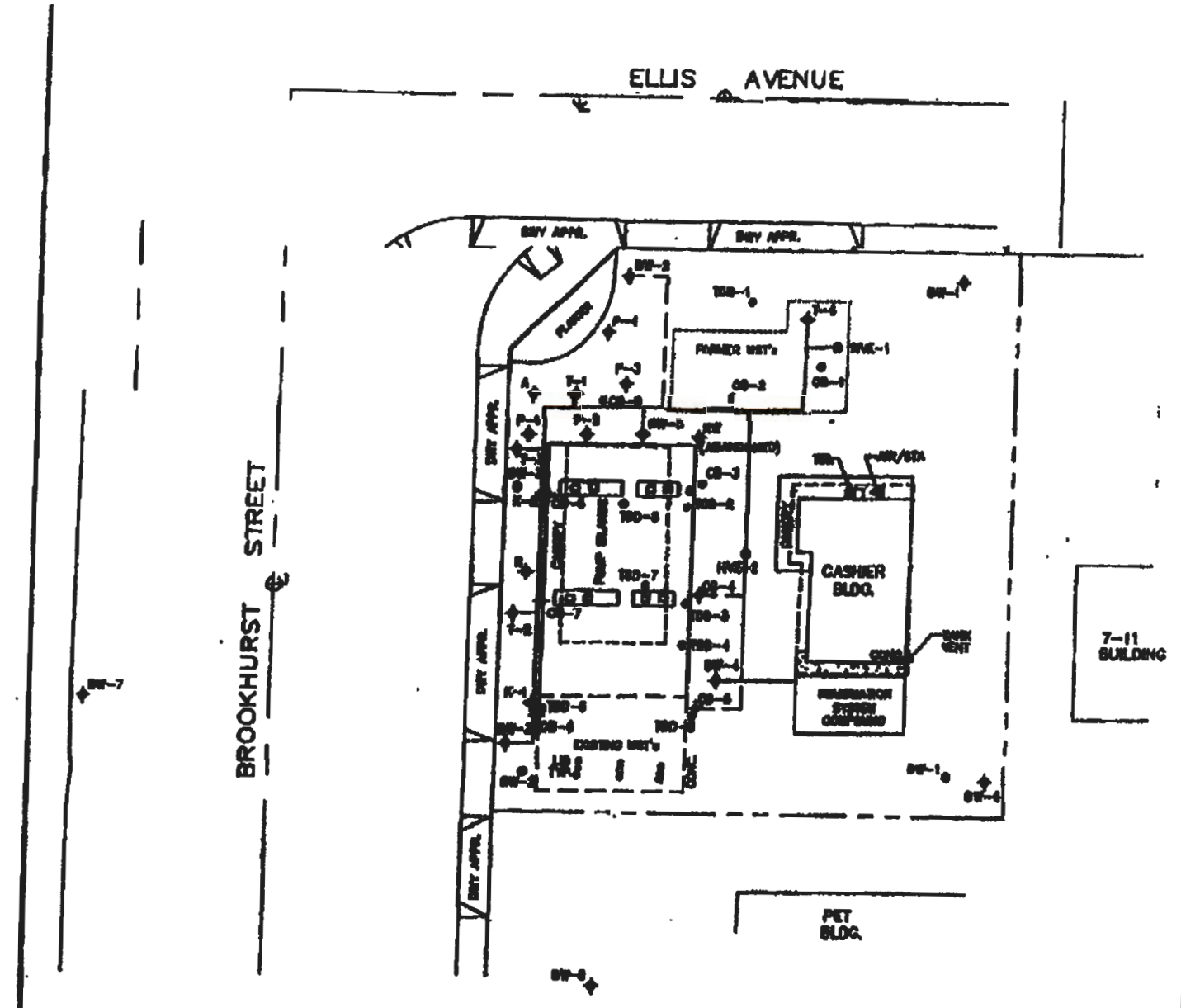
FIGURE 7

FIGURE 8

Vapor Extraction System Data

Thrifty Oil Co. Station No. 383 - Fountain Valley, CA





LEGEND

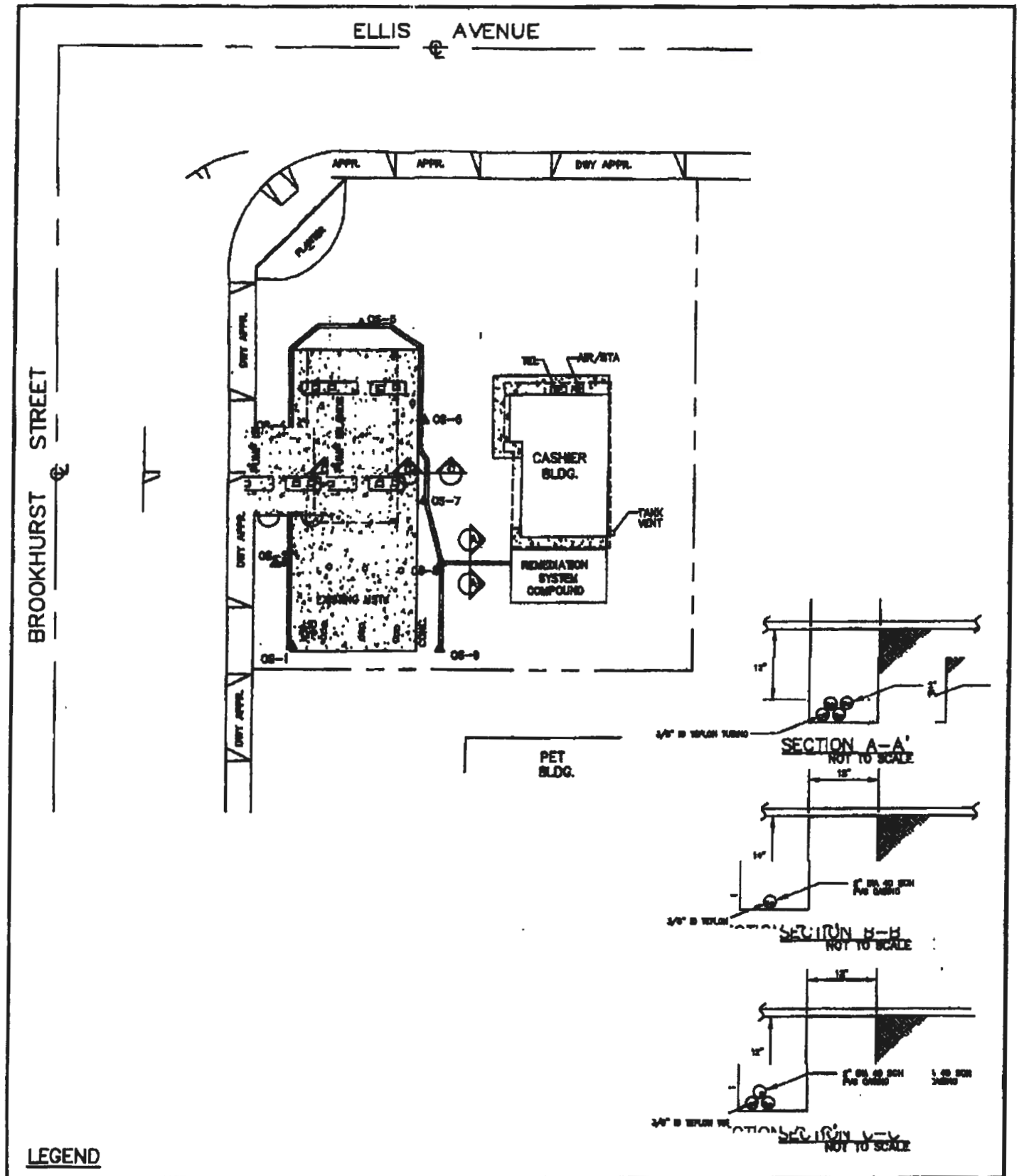
- SVE-1, T-1, A – GROUNDWATER MONITORING WELL
- T-1 – PIEZOMETER WELL
- DPE-1 – DEEP ZONE REMEDIATION WELL
- TRD-1, CB-1 – SOIL BORING
- SVE-1 – SOIL VAPOR EXTRACTION WELL
- T-1 – GEOPROBE BORING
- CB-1 – DUAL PHASE EXTRACTION (DPE) WELL
- PROPERTY LINE
- EXISTING EXTRACTION PIPING
- HEAVY INSULATED EXTRACTION PIPING

0' 40'
Approximate Scale In Feet

DPE SYSTEM LAYOUT
Thrifty Service Station No. 383
16520 Brookhurst St., Fountain Valley, California

THRIFTY OIL CO.
13116 Imperial Highway
Santa Fe Springs, CA 90670

FIGURE 9



LEGEND

▲ OS-1 – Installed Sparge well

– Underground Trenching

0' 40'

Approximate Scale in Feet

OZONE SPARGING SYSTEM LAYOUT
Thrifty Service Station No. 383
18520 Brookhurst St., Fountain Valley, California

THRIFTY OIL CO.
13116 Imperial Highway
Santa Fe Springs, CA 90670

FIGURE 10

COUNTY OF ORANGE
REGULATORY HEALTH SERVICES
ENVIRONMENTAL HEALTH

96TC31
(VC3)

ACTIVITIES REPORT

COMPANY NAME/DBA: Crown Cleaners

ADDRESS: 1883 Brookhurst St.

CITY: (6) Ft. STATE: CA ZIP CODE: 92705

CONTACT: William Ragsdale Phone: Cl (909) 764-5145 Fax:

DATE	STAFF	
2002	Lodriguez	Vapor risk assessment - continued.
12-24	Lodriguez	Consulted w/ Supervisor re: treatment of "grossly fathered risk asst." Continued VRA runs.
12-26	Lodriguez	Continued vapor risk assmt runs.
12-30	Lodriguez	Returned call of William R. - left message that I'll try to complete closure documentation by week of 4/28-5/2.
4/18/2003	Lodriguez	Revision to VRA - based on review of letter (Feb. 14/03) sent by OC's William re: residual PCE of 8.04 mg/kg. Case file/closure review. Closure Rationale.
5/5/03	Lodriguez	Left Kamran about 5/6 water contamination @ Albertsons (adj. tenant to Crown) contamination. I will send him pertinent data for his review. Clos. Rationale cont'd.
5/6	Lodriguez	Continued Clo. Rationale (CR).
5/7	Lodriguez	Clos. Rationale (CR) cont'd.
5/8	Lodriguez	Clos. Rationale Cont'd.
5/9	Lodriguez	CR continued.
5/12	Lodriguez	CR continued. Ran supplemental VRA (Albertsons 2 holes/1 shop).
5/13	Lodriguez	CR continued. Sent to Kamran via email, with supporting map faxed to him also.
5/14	Lodriguez	Revisions to risk assessments using latest CPFs for PCE/TCE. Revisions also to Clo. Rationale.
5/15	Lodriguez	Faxed closure letter/attachment for P.M.
5/30	Lodriguez	Voided letter/attachment; closure finalized. Closed case.

COUNTY OF ORANGE
REGULATORY HEALTH SERVIC
ENVIRONMENTAL HEALTH

96IC 31

ACTIVITIES REPORT

(VT3)

Company Name: Crown Cleaners

Address: 16583 Brookhurst St.

City: (c) FV State: _____ Zip: 92708

Contact Person(s): William Ragsdale cp (909) 364-5144 Phone: _____

Date	Staff	Activities/Comments
6-14-02 Cont'd	Lodriguez	Split g/w samples for sampling episodes pulled by either OCHCA or R.B. staff is unable to witness. Excavation/confirmation sampling planned for Tuesday 6/25/02. * Installation of steel plate beneath machine is a pre-requisite for closure — Note: done as of 9/11/02 — inspection/sampling @ Site. H.
6-25-02	Lodriguez	Returned call of William: at sampling @ 3:00 pm today @ site for confirmation sampling of excavation — various depths.
9-5-	Lodriguez	Returned call of William: apt sampling of g/water Wed (9/11) @ 11:00 Am. Per William, Hydropunch g/w samples beneath Albertson's showed low MTBE concentration — source not known.
9-11	Lodriguez	At site for confirmation sampling of 2 exterior and 2 interior monitoring wells.
9-12	Lodriguez	Talked to William R. — confirmed billing should be sent to Henry Avila — Donahue Schriber.
9-26	Lodriguez	Review of lab report: 3 mws showed gasoline not detected. Worst is mw-3 (inside d/c @ rear — probable source area).
12-3	Lodriguez	Reviewed RA+Co Sampling Report (Oct 1/02).
12-4	Lodriguez	Reviewed other reports/case file; plotted recent & old data on maps for risk analysis. Conducted risk assessment (Vapor Intrusion), using mass-based model.
12-16	Lodriguez	Continued Vapor Risk Assessment (VRA)
12-17	Lodriguez	Continued VRA
12-19	Lodriguez	Talked to William R about revisions to report & correct sampling pt. location (now removed). Additional risk assessment needed, including for g/water beneath site.
12-20	Lodriguez	Additional VRA revs — various processes

COUNTY OF ORANGE
REGULATORY HEALTH SERVICES
ENVIRONMENTAL HEALTH

96 IC 31
(ROA 553)

ACTIVITIES REPORT

Company Name: Crown Cleaners

Address: 18583 Brookhurst St.

City: (6) F.V. State: _____ Zip: 92708

Contact Person(s): William Ragsdale / Converse Consultants Phone: (714) 444-9666
cp - (909) 264-5145
Kamron Saremi - SA Reg. Board

Date	Staff	Activities/Comments
2-8-2002	Luis Lodriguez	Talked to William Ragsdale about RP / billing party; faxed him Req. for oversight from DTSC; Completion by Schriber Co. for Additional Site Characterization. Reviewed Work Plan Co. for Additional Site Characterization. Prepared Response letter - Concurring to WP proposal.
6-6-02	Lodriguez	Personally received RAP from William R. / Stan Wiebe.
6-7-02	Lodriguez	Reviewed file; received RAP; Remedial excavation planned for June 21/02. Calls to Kamron / William re: possible site inspection. Kamron indicated June 19 at 1:30 PM. William is open any date prior to start of excavation, but prefers a much earlier date than 19th June.
6-13	Lodriguez	Reviewed RAP; risk evaluation redone - Talked to William: I told him I'll have something sometime early next week, but indicated max PCE target of 1.2 ppm - to which he agreed.
6-14	Lodriguez	Risk assmt - Max based ran @ max 1.2 ppm PCE, TCE conc. not expected @ 70.5 ppm. Called Kamron for comments on Crown Cleaners WP - left message. Called William R and told him that RAP ok (verbal only) & will just await for Kamrons comments on groater,
6-17	Lodriguez	Called Kamron; reminded him of site inspection of Crown Cleaners & adjoining Albertsons.
6-18	Lodriguez	Kamron returned my call - left message re his review of report & inspection on 6/19/02.
6-19	Lodriguez	Called Kamron & confirmed site inspection today. Left message for William R. confirming the meeting. Met @ site w/ William R. & Kamron. Discussed site characterization & pending remedial action through excavation & additional groundwater sampling of mws & new hp w/in Albertsons. Converse to get

COUNTY OF ORANGE
I 'IRONMENTAL HEALTH DIVISI
.'ASTE MANAGEMENT AGENC'

ACTIVITIES REPORT

96 IC31
(RO# 183)

Company Name: Crown Cleaners

Address: 18583 Brookhurst St.

City: (6) Fountain Valley State: _____ Zip: 92708

Contact Person(s): William Ragsdale / Converse Phone: (714) 444-9660
fax (714) 444-9620

Date	Staff	Activities/Comments
7-15-99	Luis Lodriguezo	Talked to William R. that will ensure that RP will be identified to ensure the continued oversight is conducted for this site.
8-6	Lodriguezo	Reviewed report on soil + g/water investigation. Two soil borings – 1 each south of HA-5 and east of HA-13 should be sufficient to define the degree of impact laterally. Further g/water investigation is needed to delineate g/water contaminant plume.
8-9	Lodriguezo	Prepared response to SExpl. report – asked also for new authoriz. for oversight.
8-10	Lodriguezo	Talked to Bill R. and discussed additional borehole in the adjacent grocery store. Response letter was not to be revised anymore.
9-9	Lodriguezo	Talked to Bill about letter dtd 8/9/99. Faxed him copy.
9-13	Lodriguezo	Reviewed WP for add. S.I.: no plan was provided. Called William
9-17	Lodriguezo	R. left message. Called again: not available. Called, left message for Bill Ragsdale.
9-21	Lodriguezo	Returned William's call. I told W. that I need to make sure someone is to absorb cost of oversight, since Jack Enlow is no longer actively involved and Mr. Nicholson is calling shots, but refuses to acknowledge that he'll pay bill for site assessment. He has proposed, but one seems to be in a position to pay. Will will clarify this with Nicholson & get back to us.
10-26	Lodriguezo	Met w/ Norman Eke & Will R. discussed further assessment plan, MW installation (date) & possible remedial excavation. formal WP to be submittal.

① Reg. Bd will require some mitigation of source
② GW sampling indoors, if at all possible.
Staff
① Screen to be no more than 10 ft below water table.
②

COUNTY OF ORANGE
ENVIRONMENTAL HEALTH DIVISION
WASTE MANAGEMENT AGENCY

ACTIVITIES REPORT

96 IC 31

Company Name: Crown Cleaners

Address: 18583 Brookhurst St.

City: (G) F.V. State: _____ Zip: 92708

Contact Person(s): Mike Cook – ~~Henry Amos~~ Daniel Selby
Dean Mockrie

Phone: (409) 796-0544 ~~(714) 962-1066~~
(626) 930-1257

Date	Staff	Activities/Comments
6-26-97	Lodriguez	Phone conversation w/ Henry Amos. A RAP, in addition to delineation of full extent of contamination will to be submitted to HCA.
8-1-97	Lodriguez	Reviewed WP for add. site assessment.
8-5-97	Lodriguez	Re-ran VRA - NIB using latest (corrected) model.
8-11-97	Lodriguez	Discussed WP with Henry. Revisions to be made - where TCLP analysis will be done, indoor grab g/water sampling will be taken and 1 MW will be installed. Addendum to WP to be sent by Henry.
12-23-97	Lodriguez	Reviewed addendum to WP (revised WP) dtd 12/17/97. Additional investigation is needed to fully define lateral extent of shallow (0-3½ ft) soil contamination and will help delineate excavation / other remedial alternative boundaries. It will also provide accurate input data for risk assessment where PCE concentrations were projected from limited borehole analyses (maximum concentrations which may either be found to be similar or less in actual soil analyses. Prepared letter response.
7-16-98	Lodriguez	Reviewed Additional site investigation report (dtd May 15, 98). Consolidated all available data in one map.
7-17-98	Lodriguez	Continued case analysis. Ran VRA calculations with PCE & PRGs assumed removed: risk $<1\times10^{-6}$. Discussed with Henry Amos requirement for additional delineation of shallow soils contaminant concentrations and subsequent site soil mitigation in addition to need to also further characterize g/water impact. Prepared letter response to SI report.
3-17-99	Lodriguez	Returned Dean McKree's call: faxed ltr dtd 6/19/98.
5.13	Lodriguez	Talked to Mike Cook re: letter from McKeldon Vol. days. Reviewed WP for add. assessment, & lead to Dean M: one new borehole not to be sampled for soil. Prepared response.

COUNTY OF ORANGE
ENVIRONMENTAL HEALTH DIVISION
WASTE MANAGEMENT AGENCY

ACTIVITIES REPORT

96 IC 31

Company Name: Crown Cleaners

Address: 18583 Brookhurst Street

City: (6) Fountain Valley State: CA Zip: 92708

Contact Person(s): Robin Rix / Jack Enlow - 16291 Tisbury Circle HB, CA 92649 Phone: (310) 597-8875
[Diane Rix) - (310) 597-8031]
Henry Ames (714) 953-2252

Date	Staff	Activities/Comments
9-6-96	Luis Lodriguez	Talked to Dianne / husband re: letter from Jack Enlow / rep. re: overnight fee. An initial 6 / 12 hours will be authorized.
9-12-96	Luis Lodriguez	Received authorization letter from Jack Enlow's agent. Opened case file. Prepared notification form-letter.
9-13-96	Luis Lodriguez	Reviewed Site Investigation Report by Converse: some 16' x 30' ft² area in the dry cleaning machine vicinity apparently impacted w/ PCE & TCE to max of 8.9 ppm and 0.4 ppm, respectively @ 2-3.5 ft bg. A smaller area in the boiler room is impacted by TCE / PCE. VRA runs for PCE / TCE. Only max conc. of PCE (one sample point) poses potential cancer risk. Discussed with Supervisor: since contamination is at 2 ft, shallower soil is presumed to be equally contaminated; also capillary fringe is impacted & G/water is threatened - if not already impacted. G/water samples need also to be taken and analyzed for verification. Prepared letter response to SI report.
12-5-96	Luis Lodriguez	Phone message from Henry A. returned his call - left message.
12-6-96	Luis Lodriguez	Called Henry Ames: left message. Talked to Henry and asked for additional information - shallower samples, extent toward adjoining facility and floor area.
2-14-97	Luis Lodriguez	Called Henry A - left message. He's sending over results of last sampling: high PCE.
2-24-97	Luis Lodriguez	Reviewed Add. SI report dtd 2-7-97: incorporated higher PCE concentration (25 mg/kg) into HERA - using average conc. within the 1st 2 ft: ELCR is < 1.0E-06. Additional layers might, however, increase risk.
4-8-97	Luis Lodriguez	After talking to Henry Ames yesterday, Apr. 7, about HERA response to additional SI, I re-visited risk calculations based on mass of contaminant on site. Risk now came to be > 1.0 E-06. Prepared letter, re: RAP.

IC/OCUST PROGRAM INPUT FORM

☐ New Record

☒ Existing Record

Record ID#: RO-0000553 Local Site #: 96IC31

Location Tab

Site Name: Crown Cleaners (Max 30 Characters)

Site Address:

St No: 18583 St Dir: _____ St Name: Brookhurst Street (Max 25)

Unit: _____ City Code: 6 City: Fountain Valley

State: CA Zip: 92708

Designated Employee #: EE0000219 Current Status (**Circle one**): (01) Active and Billable / 02 - Inactive and Non-Billable

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Dates & Info Tab

Reported: 9/12/01 Case Closed Date (Ended): / /

Financial Tab

Program Element: (7310) / 7220 (**Circle One**)

Responsible Party

Name: Henry Avila (Contact Name) (Max 30 Characters)

Address: 2200 W. FLORIDA AVENUE # 300 (Max 30 Characters)

City, St, Zip: HEMET, CA 92545

Phone: 909-545-1400

Representing: Donahue Schriber Realty Group, L.P. (Company Name) 1748

User Defined Fields Tab

Chemicals Spilled _____ _____ _____ _____ _____

How Disposed _____ Amount of Soil Treated/Disposed Offsite _____ tons

Remediation Technology Water _____ _____ _____

Remediation Technology Soil _____ _____ _____

Revised 12/19/01

ENTERED SEP 13 2002

COUNTY (ORANGE/HEALTH CARE GENCY
ENVIRONMENTAL HEALTH
2009 E. Edinger, Santa Ana, CA 92705
(714) 667-3700

SITE MITIGATION/CLEANUP REPORTING FORM

Case No.: 96 IC 31

Account No.: _____

Date Received: 9-12-96

DBA: Crown Cleaners

Address: 18583 Brookhurst Street

City: (6) Fountain Valley Zip: 92708

Responsible Party: Jack Enlow
c/o Robin Rix

Mailing Address: Rix Business Sales
354 Bine Cavern Point
Long Beach, CA 90803

Chem ID: 575.W - PCE 741.W - TCE _____ _____

How Discovered: 2 Leak Type: 3

Leak Cause: 4 Affected Resources: 7

Remediation Technology (Water): _____ _____ _____

Remediation Technology (Soil): _____ _____ _____

Amount of contaminated soil taken off-site for treatment: _____ tons

Amount of contaminated soil taken off-site for disposal: _____ tons

How disposed: _____

cc: Debbie Cheung 9/12/96

Completed By: Luis Lodriguez 9/12/96

Luis

COUNTY OF ORANGE
HEALTH CARE AGENCY

REGULATORY HEALTH SERVICES
ENVIRONMENTAL HEALTH

JULIETTE A. POULSON, RN, MN
DIRECTOR

MIKE SPURGEON
DEPUTY AGENCY DIRECTOR
REGULATORY HEALTH SERVICES

STEVEN K. WONG, REHS, MPH
DIRECTOR
ENVIRONMENTAL HEALTH

MAILING ADDRESS:
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720

TELEPHONE: (714) 667-3600
FAX: (714) 972-0749
E-MAIL: environhealth@hca.co.orange.ca.us

Excellence
Integrity
Service

May 29, 2003

Henry Avila
Donahue Schriber Realty Group, L.P.
2200 W. Florida Avenue #300
Hemet, CA 92545

Subject: **Case Closure**

Re: Crown Cleaners
18583 Brookhurst Street
Fountain Valley, CA 92708
OCHCA Case #96IC031

Dear Mr. Avila:

This letter confirms the completion of remedial action at the above-referenced sites. With the provision that the information provided to this Agency was accurate and representative of existing conditions, it is the position of this office that no further action is required at this time.

This confirmation of completion is limited in scope. It is limited to site conditions made known to this Agency under the above-referenced case number. It is based on an evaluation of the health threat presented by the inhalation, ingestion, or dermal absorption of the residual contaminants. In addition, this evaluation considered the present and proposed use of the property. Changes in the present or proposed land use may require further site characterization and/or site mitigation activity.

The presence of halogenated volatile organic compounds (PCE, TCE and DCE) and the potential for residual contamination present at this site to cause further groundwater degradation was discussed with Kamron Saremi of the Santa Ana Regional Water Quality Control Board. Regional Board staff concurred that no further action is required at this time.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present or future operations at the site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site, which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health. It is the property owner's responsibility to notify this Agency of any changes in future contamination findings or site usage.

If you have any questions regarding this matter, please contact Luis Lodrigueza at (714) 667-3717.

Sincerely,

Karen L. Hodel
Program Manager
Hazardous Materials Mitigation Section
Environmental Health Division

KLH:LL:

cc: Ann Sturdivant, Santa Ana Regional Water Quality Control Board
William Ragsdale, Converse Consultants

IC:crowncleaners.closure/lal

Case Closure Rationale

D.B.A.: **Crown Cleaners**
18583 Brookhurst Street
Fountain Valley, CA 92708

OCHCA Case No.: **96IC31**

Responsible Party: Donahue Schriber Realty

Current Land Use: Commercial
Current Adjacent Land Use: Commercial
Future Land Use: Commercial

Soil Types: Clay/silty clay to 6' bg, followed by sand/silty sand
Depth to Groundwater: 10'-13' below grade (bg)

The subject Cleaners, one of several tenants within the Callens Corner Shopping Center, has been in operation since 1990 and has been the subject of at least three phases of environmental investigation conducted by Converse Consultants (Converse). The initial site investigation was conducted in May 1996 when Converse drilled twelve (12) hand auger borings—eight (8) surrounding the dry cleaning machine, one (1) in the boiler room and three (3) outside the rear door. Soil samples were collected at depths of 2' and 5' bg from the three initial boreholes, with 7'-deep samples also taken from two later outdoor boreholes, as well as 7'- and 9'- or 10'-deep samples collected from the seven subsequent indoor boreholes. These were all analyzed for halogenated volatile organic compounds (VOCs) by EPA Method 8010. Elevated concentrations of PCE (up to 8.9 mg/kg) and TCE (up to 0.64 mg/kg) were detected in the vicinity of the dry cleaning machine and in the boiler room.

Table I - Nature and Degree Contamination

Contaminants	Maximum Contaminant Concentrations				Cleanup Goals: G/water-MCL*^ Soil—PRG^
	Soil—Initial [mg/kg]	Soil—Final [mg/kg]	Groundwater [mg/l] (Crown Cleaners)	Groundwater [mg/l] (Adjacent Spaces)	
Tetrachloroethene (PCE)	63 (1' bg*) 5.4 (5' bg) 0.64 (10' bg)	8.04 (1' bg) 2.61 (5½' bg) 0.64 (10' bg)	0.76 (HA-15) 2/98 0.31 (MW-2[A]) 5/99 0.081 (MW-3) 5/99 1.0 (MW-3) 9/02 0.53 (MW-4) 5/99 0.035 (MW-4) 9/02	Upgradient (Albertson's) - 0.002 (7/02) Crossgradient (Outside rear door) – 0.066 (4/02) 0.16 (9/02) Downgradient (Water & Ice Shop) - 0.375 (3/02)	PRG= 19 mg/kg MCL= 0.005 mg/l
Trichloroethylene (TCE)	0.099 (0.5' bg) 0.64 (2' bg) 0.15 (5' bg) 0.012 (10' bg)	0.866 (1' bg) 0.64 (2' bg) 0.083 (5½' bg) 0.012 (10' bg)	0.037 (HA-15) 2/98 0.018 (MW-2) 5/99 0.003 (MW-3) 5/99 0.16 (MW-3) 9/02 0.036 (MW-4) 5/99 0.004 (MW-4) 9/02	Upgradient - ND** (7/02) Crossgradient - 0.03 (4.02) 0.11 (9/02) Downgradient - 0.094 (3/02)	PRG= 6.1 mg/kg MCL= 0.005 mg/l
Dichloroethylene (cis 1,2-DCE)	0.051 (2' bg) 0.017 (5' bg)	0.165 (1' bg) 0.018 (5½' bg)	0.014 (MW-3) 9/02 0.004 (MW-4) 5/99 ND (MW-4) 9/02	Upgradient - ND (7/02) Crossgradient - 0.02 (9/02) Downgradient - 0.01(3/02)	PRG= 150 mg/kg MCL= 0.006 mg/l

*Below grade ^US EPA-Region IX Preliminary Remediation Goal (Industrial) within 5' of final grade
^CA DHS Maximum Contaminant Levels **Not Detected [A]Sampled only once, then abandoned

In response to this Agency's request for further assessment, Converse drilled in February 1998 five additional hand auger boreholes—three farther east and south of the dry cleaning machine, one between the machine and the boiler room, and one in the boiler room itself. Soil samples were obtained at depths of 1' and 3½' bg, with one grab groundwater sample also collected from the borehole (HA-15) southwest of the dry cleaning machine. All samples were tested for VOCs by EPA Method 8260B, and laboratory results showed the presence of solvents in soil at even higher PCE concentrations (up to 63 mg/kg between the boiler room and the machine, and up to 47 mg/kg southwest of the machine) than the previous ones. TCE was also detected but at much lower concentrations (maximum of 0.099 mg/kg in the borehole southwest of the machine). Low concentrations of cis-1,2-DCE (up to 0.022 mg/kg) and 1,2-DCA (up to 0.015 mg/kg) were also detected. Test results of the grab water sample (encountered at 13' bg) from HA-15 showed 0.76 mg/l PCE and 0.037 mg/l TCE. At this time, a monitoring well (MW-1) was installed just outside the rear door, with soil samples

In July 2002, Converse drilled three geoprobe holes in the bakery section of Albertson's store (immediately opposite Crown Cleaners' machine and boiler) where previous boreholes showed elevated solvent concentrations to as deep as 10'bg. Groundwater samples (in duplicate) were collected from all boreholes, as requested by the Regional Board, and analyzed for VOCs by EPA Method 8260. Two laboratories—Associated and Del Mar—reported identical results, i.e., (1) ND PCE in two borings with trace PCE in one and (2) ND TCE and DCE in all borings. Unexpectedly, however, MTBE was detected at trace concentrations in all groundwater samples, and benzene was detected in the water sample from the easternmost boring (HA-32)—at 2 ug/l (Associated) [5.4 ug/l, Del Mar]. Del Mar also reported trace concentrations of toluene and xylenes in HA-32.

A vapor risk assessment was conducted for the Cleaners using OCHCA's mass-based model. The maximum concentration of each of PCE and TCE in soil, assumed to be present in 3 soil layers (½'-1½' bg, 1½'-6½' bg and 6½'-11' bg) spread over an area slightly more than half the total dry cleaner floor area, was used to calculate the total mass of PCE and TCE beneath the facility. The total mass of PCE and TCE in groundwater was also calculated from the maximum detected concentration of each and the porosity of the aquifer, and then directly inputted into the model. The combined excess cancer risk from both PCE and TCE in soil and in groundwater was then calculated. The result showed an acceptable risk level of less than one in one million ($<1 \times 10^{-6}$). A supplemental risk assessment was also run for both the Albertson's grocery store and the Water & Ice Shop, using the same conservative methodology as with Crown Cleaners. The resulting combined excess cancer risk from residual PCE/TCE contamination in both soil and groundwater for each tenant space was less than one in one million.

Regional Board staff was consulted regarding the presence of contamination in groundwater. The highest concentrations of PCE (max of 1.0 mg/l) and TCE (max 0.16 mg/l) are confined to groundwater beneath the western halves of Crown Cleaners and the Water & Ice Shop and just beyond the back doors of both tenant spaces. Because the source of contamination has been removed and no future release is likely due to the presence of a secondary containment beneath the machine, no further groundwater degradation is anticipated. In view of this, and the expected naturally attenuation of existing groundwater contamination over time, Regional Board staff decided not to require further groundwater investigation or remedial action for the site at this time.

Based on the low concentrations of PCE, TCE and DCE beneath the dry cleaner and adjacent tenant sites that do not pose any serious threat to health or safety, as well as the Regional Board's position that no further groundwater investigation is required, it is recommended that this case be closed.

Luis Rodriguez 5/16/03 Karen L. Hedlo 5/28/03
Hazardous Waste Specialist

IC:crowncleaners/closure

Case Closure Rationale

D.B.A.: **Crown Cleaners**
18583 Brookhurst Street
Fountain Valley, CA 92708

OCHCA Case No.: **96IC31**

Responsible Party: Donahue Schriber Realty

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collected at 5', 10', 15', 20' and 22' bg. Based on field screening results, only the 10' sample was submitted for analysis by EPA Method 8260B. PCE and TCE were detected in this soil sample at 0.13 mg/kg and 0.068 mg/kg, respectively. Analysis of the groundwater sample from this monitoring well, taken after development and purging showed no detectable PCE, TCE or other VOCs.

Converse drilled three additional hand auger holes (HA-22 through HA-24 in March 2002) and three monitoring wells (MW-2 through MW-4 in May 1999) inside the dry cleaner space to determine the full extent of soil contamination and the nature and extent of groundwater impact beneath the facility. Analysis of the soil boring samples confirmed the likely source of contamination to be the area near the boiler/dry cleaning machine and indicated a decrease in the degree of impact as distance from the machine increased. Groundwater analysis showed that solvent contamination expanded to beneath the center of the dry cleaner space (MW-4) but was not present farther eastward (HA-22).

Converse expanded its assessment by drilling (in May 1999) three hand auger holes on the adjacent Albertson's grocery store to the north, then following up (in March 2002) with three others—one to the west and two farther to the north of the earlier auger holes. Soil samples collected from these at 2', 5' and 9' or 10' bg were analyzed for VOCs, with results showing notable soil contamination at 5' bg (up to 6.75 mg/kg PCE) and 10' bg (up to 2.82 mg/kg PCE) in the area immediately next to Crown Cleaners' boiler room/dry cleaning machine location. Converse also drilled in March 2002 two hand auger holes within the adjacent tenant space to the south (Water & Ice Shop)—directly south of the boiler room and the dry cleaning machine—and took soil samples at 2', 5', and 9' bg, as well as a groundwater sample from each boring for analysis by EPA Method 8260. Test results showed PCE concentrations in soil ranging from 0.35 mg/kg (2' bg) to 1.08 mg/kg (5' bg), and up to 0.365 mg/kg (2' bg) TCE in soil. Groundwater test results showed up to 0.375 mg/l PCE and up to 0.094 mg/l TCE beneath the Water & Ice Shop tenant space.

Also in March 2002, Converse installed three monitoring wells (MW-5, MW-6 and MW-7) 60 ft east-southeast and 120 ft southeast of the Cleaners in the parking lot and 140 ft south of the Cleaners within a planter area, respectively. Groundwater samples were collected from these three wells in April 2002, in addition to another from MW-1, and tested for VOCs by EPA Method 8260. No contamination was detected except in the sample from MW-1 that showed 0.066 mg/l PCE, 0.113 mg/l TCE and 0.03 mg/l cis-1,2-DCE. Groundwater flow at this time veered to the southwest from the May 1999 southeast direction.

Based on information gathered from various assessment activities conducted at the site, a remedial action plan was submitted to and approved by this Agency, on condition (imposed by the Regional Board) that additional groundwater samples be obtained from beneath the Albertson's store space. Upon relocation of the dry cleaning machine and saw-cutting of the concrete floor on June 22, 2002, impacted soil was removed using manual labor from locations with the highest solvent concentrations in dry cleaning area and in the boiler room to depths of 1 ½', 4 ½' and 6 ½' bg. To maintain the structural integrity of the building, the excavations extended to but not beneath its footings. After removal of approximately 55 cubic yards (~76 tons) of solvents-impacted soil—transported under manifest (Appendix C to Converse's Remedial Action and Groundwater Sampling Report dated October 1, 2002) to the Kettleman Hills Disposal facility in Kettleman City, CA—confirmation sampling of excavation walls and floors was undertaken under the supervision of Agency staff. Results of laboratory analysis by EPA Method 8260B showed all residual contaminant concentrations to be below remedial goals. The highest residual PCE concentration was 8.04 mg/kg PCE at 1' bg at the base of excavation area E (east edge of the former dry cleaning machine spot). Because of the relatively low concentrations of PCE/TCE (0.682 mg/kg and 0.14 mg/kg at 2' bg, respectively) in the adjoining wall of the pit immediately adjacent excavation E (excavation D)—indicating no more than an estimated ½ cubic yard of impacted soil at this concentration—no further soil removal was undertaken. The highest residual TCE concentration was 0.866 mg/kg at 1' bg on the east wall of the boiler room pit (excavation B). As in excavation E, no further soil removal was conducted here since nearby samples showed relatively low TCE concentrations, indicating very minimal residual soil (estimated at <½ cubic yard) at 0.866 mg/kg. Upon completion of sampling, the excavations were filled with cement slurry and finished to original grade. The dry cleaning machine and its containment pan were then reinstalled.

In July 2002, Converse drilled three geoprobe holes in the bakery section of Albertson's store (immediately opposite Crown Cleaners' machine and boiler) where previous boreholes showed elevated solvent concentrations to as deep as 10'bg. Groundwater samples (in duplicate) were collected from all boreholes, as requested by the Regional Board, and analyzed for VOCs by EPA Method 8260. Two laboratories—Associated and Del Mar—reported identical results, i.e., (1) ND PCE in two borings with trace PCE in one and (2) ND TCE and DCE in all borings. Unexpectedly, however, MTBE was detected at trace concentrations in all groundwater samples, and benzene was detected in the water sample from the easternmost boring (HA-32)—at 2 ug/l (Associated) [5.4 ug/l, Del Mar]. Del Mar also reported trace concentrations of toluene and xylenes in HA-32.

A vapor risk assessment was conducted for the Cleaners using OCHCA's mass-based model. The maximum concentration of each of PCE and TCE in soil, assumed to be present in 3 soil layers (½'-1½' bg, 1½'-6½' bg and 6½'-11' bg) spread over an area slightly more than half the total dry cleaner floor area, was used to calculate the total mass of PCE and TCE beneath the facility. The total mass of PCE and TCE in groundwater was also calculated from the maximum detected concentration of each and the porosity of the aquifer, and then directly inputted into the model. The combined excess cancer risk from both PCE and TCE in soil and in groundwater was then calculated. The result showed an acceptable risk level of less than one in one million ($<1 \times 10^{-6}$). A supplemental risk assessment was also run for both the Albertson's grocery store and the Water & Ice Shop, using the same conservative methodology as with Crown Cleaners. The resulting combined excess cancer risk from residual PCE/TCE contamination in both soil and groundwater for each tenant space was less than one in one million.

Regional Board staff was consulted regarding the presence of contamination in groundwater. The highest concentrations of PCE (max of 1.0 mg/l) and TCE (max 0.16 mg/l) are confined to groundwater beneath the western halves of Crown Cleaners and the Water & Ice Shop and just beyond the back doors of both tenant spaces. Because the source of contamination has been removed and no future release is likely due to the presence of a secondary containment beneath the machine, no further groundwater degradation is anticipated. In view of this, and the expected naturally attenuation of existing groundwater contamination over time, Regional Board staff decided not to require further groundwater investigation or remedial action for the site at this time.

Based on the low concentrations of PCE, TCE and DCE beneath the dry cleaner and adjacent tenant sites that do not pose any serious threat to health or safety, as well as the Regional Board's position that no further groundwater investigation is required, it is recommended that this case be closed.

5/16/03 Karen L. Hodo 5/28/03

Luis Lodrigueza
Hazardous Waste Specialist

IC:crowncleaners/closure

May 15, 2003

TABLE 1

Laboratory Results of Soil Samples

Crown Cleaners
18583 Brookhurst Street
Fountain Valley, California
(Converse Project No. 98-42-589-16)

EPA Laboratory Method 8010 - Purgeable Halocarbons
Results in Parts Per Million (ppm)

Sample Depth (feet)	Soil Boring HA-1		Soil Boring HA-5		Soil Boring HA-2		Soil Boring HA-8		Soil Boring HA-3		Soil Boring HA-4	
	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE
2-2.5'	1.03	0.12	2.2*	0.14*	8.9	0.18	1.4	0.14	0.4	ND	1.1	0.18
5-5.5'	0.08	0.02	NT	NT	0.42	0.07	NT	NT	ND	ND	0.42	0.05
7-7.5'	--	--	0.064	ND	--	--	0.03	ND	--	--	0.027	ND
9-9.5'	--	--	0.27	ND	--	--	0.14	ND	--	--	0.057	ND
10-10.5'	--	--	--	--	--	--	--	--	--	--	0.024	ND
Detection Limits	0.01		0.01		0.01		0.01		0.01		0.01	
Date Sampled	05/07/96		05/22/96		05/07/96		05/22/96		05/07/96		05/22/96	

LEGEND:
PCE = Tetrachloroethene
TCE = Trichloroethene
parts per million = milligrams per kilogram (mg/kg)
ND = Not Detected above laboratory method detection limits
NT = Collected soil sample not analyzed
-- = No Sample Collected
Note - All other target compounds were not detected. See laboratory analytical report.
* = Soil sample HA-5 collected at 2-2.5' also contained ~~0.46 ppm~~ of cis-1,2-Dichloroethene and 0.2 ppm of Acetone — Lab Report 5/8/96 states "all ND" for other target cpds.
** = Soil sample collected at indicated depth
Note: HA-5 boring location is a continuation of boring HA-1
HA-8 boring location is a continuation of boring HA-2

TABLE 1

Laboratory Results of Soil Samples

Crown Cleaners
18583 Brookhurst Street
Fountain Valley, California
(Converse Project No. 98-42-589-16)

EPA Laboratory Method 8010 - Purgeable Halocarbons
Results in Parts Per Million (ppm)

Sample Depth (feet)	Soil Boring HA-6		Soil Boring HA-7		Soil Boring HA-9		Soil Boring HA-10		Soil Boring HA-11		Soil Boring HA-12	
	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE
2-2.5'	0.76	0.13	1.1	0.13	1.2	0.64	0.07	0.01	0.04	ND	1.0	ND
			(2.5-3')**									
5-5.5'	0.29	0.03	0.48	0.03	0.05	0.03	0.01	ND	ND	ND	0.70	0.15
	(5.5-6')**											
7-7.5'	0.10	ND	0.07	ND	ND	ND	ND	ND	0.01	ND	ND	ND
									(7.5-8')**			
9-9.5'	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
					(8.5-9')**							
10-10.5'	--	--	--	--	--	--	--	--	--	--	--	--
Detection Limits	0.01		0.01		0.01		0.01		0.01		0.01	
Date Sampled	05/22/96		05/22/96		05/22/96		05/22/96		05/22/96		05/23/96	

LEGEND:
PCE = Tetrachloroethene
TCE = Trichloroethene
parts per million = milligrams per kilogram (mg/kg)
ND = Not Detected above laboratory method detection limits
NT = Collected soil sample not analyzed
-- = No Sample Collected
Note - All other target compounds were not detected. See laboratory analytical report.
* = Soil sample HA-5 collected at 2-2.5' also contained 0.46 ppm
o f cis-1,2-Dichloroethene and 0.2 ppm of Acetone
** = Soil sample collected at indicated depth
Note: HA-5 boring location is a continuation of boring HA-1
HA-8 boring location is a continuation of boring HA-2

TABLE 2

SOIL/WATER ANALYTICAL RESULTS

CROWN CLEANERS

18583 Brookhurst Street

Fountain Valley, California

(Converse Project No. 98-42-589-16)

Boring I.D.	Soil Sample Depth (feet)	Date Sampled	Depth to Groundwater	EPA METHOD 8240 or 8260			
				PCE (ppm)	TCE (ppm)	cis-1,2-DCE (ppm)	1,2-DCA (ppm)
HA-13	0.5	2/3/98	NA	13	0.087	ND	0.015
	3.5			0.21	ND	ND	ND
HA-14	0.5	2/3/98	NA	1.1	ND	ND	0.022
	3.5			0.11	0.041	0.014	0.022
HA-15	0.5	2/3/98		47	0.099	0.0056	0.0097
	3.5			0.6	0.042	0.0084	0.0095
GROUNDWATER GRAB SAMPLE		2/3/98	13 feet bgs	0.76	0.037	ND	ND
HA-16	0.5	2/3/98	NA	5.6	0.032	ND	0.00812
	3.5			0.21	0.043	0.0069	0.0095
HA-17	1	2/3/98	NA	63	0.033	ND	0.014
	3.5			5.5	0.081	0.0055	0.0078
MW-1	10	2/5/98		0.13	0.068	ND	ND
GROUNDWATER WELL SAMPLE		3/20/98	8.40 feet below TOC	ND	ND	ND	ND
Detection Limits (ppm)				0.005	0.005	0.005	0.005

EXPLANATION

NA - Not applicable

ND - Not detected above method detection limits

TOC -Top of Casing (TOC is approximately 0.5 feet below ground surface)

bgs - below ground surface

ppm - SOIL mg/kg (parts per million) ; WATER mg/l (parts per million)

PCE - Tetrachloroethene

TCE - Trichloroethene

cis-1,2-DCE - cis-1,2-Dichloroethene

1,2-DCA - 1,2-Dichloroethane

Table 3
Soil/ Water Analytical Results

Crown Cleaners
18583 Brookhurst Street
Fountain Valley, California
Converse Project No.
98-42-589-16

Well ID	Date Measured/ Sampled	Well Casing/ Sample Depth	Depth To Groundwater TOC	EPA METHOD 8021B ppm		EPA METHOD 8260 PPM		
				PCE	TCE	PCE	TCE	1,2 cis Dicholor-ethene
MW2	5/26/99	GW	10.38	NA	NA	0.31	0.018	0.002
		2	NA	2.68	0.16	NA	NA	NA
		5	NA	5.44	0.016	NA	NA	NA
		10	NA	0.64	0.012	NA	NA	NA
MW3	5/26/99	GW	10.36	NA	NA	0.081	0.003	ND
		2	NA	0.017	ND	NA	NA	NA
		5	NA	0.024	0.0067	NA	NA	NA
		10	NA	ND	ND	NA	NA	NA
MW-4	5/26/99	GW	10.42	NA	NA	0.53	0.036	0.0037
HA-18	5/26/99	2	NA	0.094	0.020	NA	NA	NA
		5	NA	0.18	0.0076	NA	NA	NA
		10	NA	0.012	ND	NA	NA	NA
HA-19	5/26/99	2	NA	0.017	0.006	NA	NA	NA
		5	NA	0.125	0.0077	NA	NA	NA
		10	NA	0.30	0.0065	NA	NA	NA
HA-20	5/26/99	2	NA	0.46	0.062	NA	NA	NA
		5	NA	3.06	0.028	NA	NA	NA
		10	NA	0.41	0.024	NA	NA	NA
HA-21	5/26/99	2	NA	0.16	ND	NA	NA	NA
		5	NA	6.75	0.050	NA	NA	NA
		10	NA	2.82	0.024	NA	NA	NA
State of California Maximum Contaminant Level (MCL)					5	5	5	5

VAPOR RISK ASSM'T

12/02

CROWN CLEANERS / F.V.

max concs: PCE — 2.700
TCE — 0.866

LAYER ①: 0.5' – 1.5' — 1' thick

"A" — (12' × 8') less (5' × 3')
96 ft² − 15 ft² = 81 ft² = 81 ft³
81 ft³

PCE	TCE
0.004	0.086
2.26	0.866
1.90	0.022
Ave. 1.388	Ave. 0.325

"BC" — 4.5' × 4' = 18 ft² — 18 ft³
8' × 8' = 64 " — 64 ft³
6' × 3' = 18 " — 18 ft³
100 ft³

PCE	TCE
2.61	0.10
1.03	0.042
Ave. 1.82	Ave. 0.071

"CDE" — 12' × 10' — 120 ft² — 120 ft³
6 × 16.5' — 99 ft² — 99 ft³
13' × 20' — 260 ft² — 260 ft³
½(9.5') × 4.5' — 21.4 ft² — 21.4 ft³
500 ft³

PCE	TCE
1.23	0.089
~~2.90~~ 8.04	~~0.118~~ 0.764
1.10	0.001 (ND)
0.293	0.007
Ave 1.381	Ave 0.054

Total Vol: — 681 ft³ ÷ 35.32 ft³/m³ = 19.26 m³

max conc. PCE — 2.61
TCE — 0.664

LAYER 2 : 1.5' — 6.5' = 5'

		PCE	TCE
"A"	12' × 8' — 96 ft² × 5 ft = 480 ft³	0.210	0.043
		1.20	0.64
		1.03	0.059
		2.61	0.083
	Ave.	1.262	0.206
"BC"	4.5' × 4' — 18 ft² × 5' = 90 ft³	0.125	0.024
	8' × 8' — 64 × 5' = 320	0.736	0.038
	8' × 6' — 48 × 5 = 240	0.60	0.042
	650 ft³ — 18.4 m³	1.20	0.085
	Ave.	0.665	0.047
"D"	2' × 8' — 16 ft² × 2' = 32 ft³	1.31	0.047
	5' × 10' — 50 ft² × 2' = 100 ft³	0.42	0.07
	132 ft³	0.842	0.034
		0.682	0.14
		0.182	0.018
		0.52	0.03
	Ave.	0.663	0.056
"CDE"	26' × 20' — 520 ft² × 5' = 2600 ft³	1.00	0.015
	5.25 × 18' — 52.5 ft² × 5' = 26.2 ft³ } 2626.2 ft³	0.191	0.040
		2.20	0.14
	less 12' × 7.5' — 42 ft² × 1.5' = 63 ft³	1.03	0.12
		1.10	0.18
		0.972	0.174
	less ½(9.5)' × 4.5' — 21.4 ft² × 1.5' = 32.1	0.032	0.0099
	2531 ft³	0.76	0.13
		0.110	0.041
		0.024	0.007
		0.18	0.02
Total	— 3793 ft³		
	= 107.4 m³	Ave	0.691	0.0797

Max conc: PCE — 0.64
TCE — 0.012

LAYER (3) 6.5' — 11.0'

	PCE	TCE
20' x 46' — 920 ft² x 4.5 ft	0.017	0.001
— 4140 ft³	0.363	0.009
— (117.2 m³)	0.64	0.012
	0.27	0.001
	0.057	0.001
	0.012	0.001

Summary	Soil Vol.	Max Concs (mg/kg) PCE	TCE
Layer 1:	19.3 m³	2.90	0.866
Layer 2:	107.4 m³	2.61	0.64
Layer 3:	117.2 m³	0.64	0.012

Bldg Vol: 20' x 78' = 1560 ft² ~~x 3.4~~ x 10' — 15600 ft³
— (442 m³)

GROUNDWATER Max. Concs: PCE = 1000 ug/L (1.0 mg/L)
TCE = 160 ug/L (0.16 mg/L)

Soil vol. (Total): 20' × 78' (Floor Area) — 1560 ft²
Soil Thickness (11' - 31') — 20 ft / 31,200 ft³ = 883.4 m³

Total Porosity = 0.475

883.4 m³ × 0.475 = 419.55 m³ = Space avbl for GW.
only 420 m³

PCE conc (max): 1.00 mg/L
in groundwater:
$1.00\ mg/L \times \frac{1\ L}{10^3\ cm^3} \times \frac{(100)^3\ cm^3}{1\ m^3} \times \frac{10^6}{10^3} = 1.00(10^6)\ mg/m^3$

PCE in avbl. Space: $(1\times10^6)\ mg/m^3 \times 420\ m^3 = 4.2\ E+05\ mg$ PCE total mass in saturated zone

TCE conc. (max) in groundwater: 0.16 mg/L × 1E+03 = 1.6E-03 mg/m³
× 420 m³
6.72E-01 mg TCE total mass in saturated zone

Calculated Risks:— Groundwater → PCE — 9.5E-09 TCE — 1.0E-15
Soil → PCE — 1.2E-08 TCE — 1.8E-10

Combined Cancer Risk — PCE = 2.2E-08 TCE = 1.0E-10
→ 2.2E-08

Cal/EPA

Cancer Potency Information

Back

New Search:

Chemical Name

Trichloroethylene

OR

CAS Number

79016

New Search

Inhalation Unit Risk $(\mu g/cubic\ meter)^{-1}$	0.000002
Inhalation Slope Factor $(mg/kg\text{-}day)^{-1}$	0.007
Oral Slope Factor $(mg/kg\text{-}day)^{-1}$	0.0153
USEPA Classification	-
IARC Classification	2A: The agent is probably carcinogenic to humans
Comments	
Reference	OEHHA, 2002 Technical Support Document for Describing Available Cancer Potency Factors OEHHA, 1999 Public Health Goal for Trichloroethylene in Drinking Water

Cal/EPA

Cancer Potency Information

Back

New Search:

Chemical Name

Tetrachloroethylene

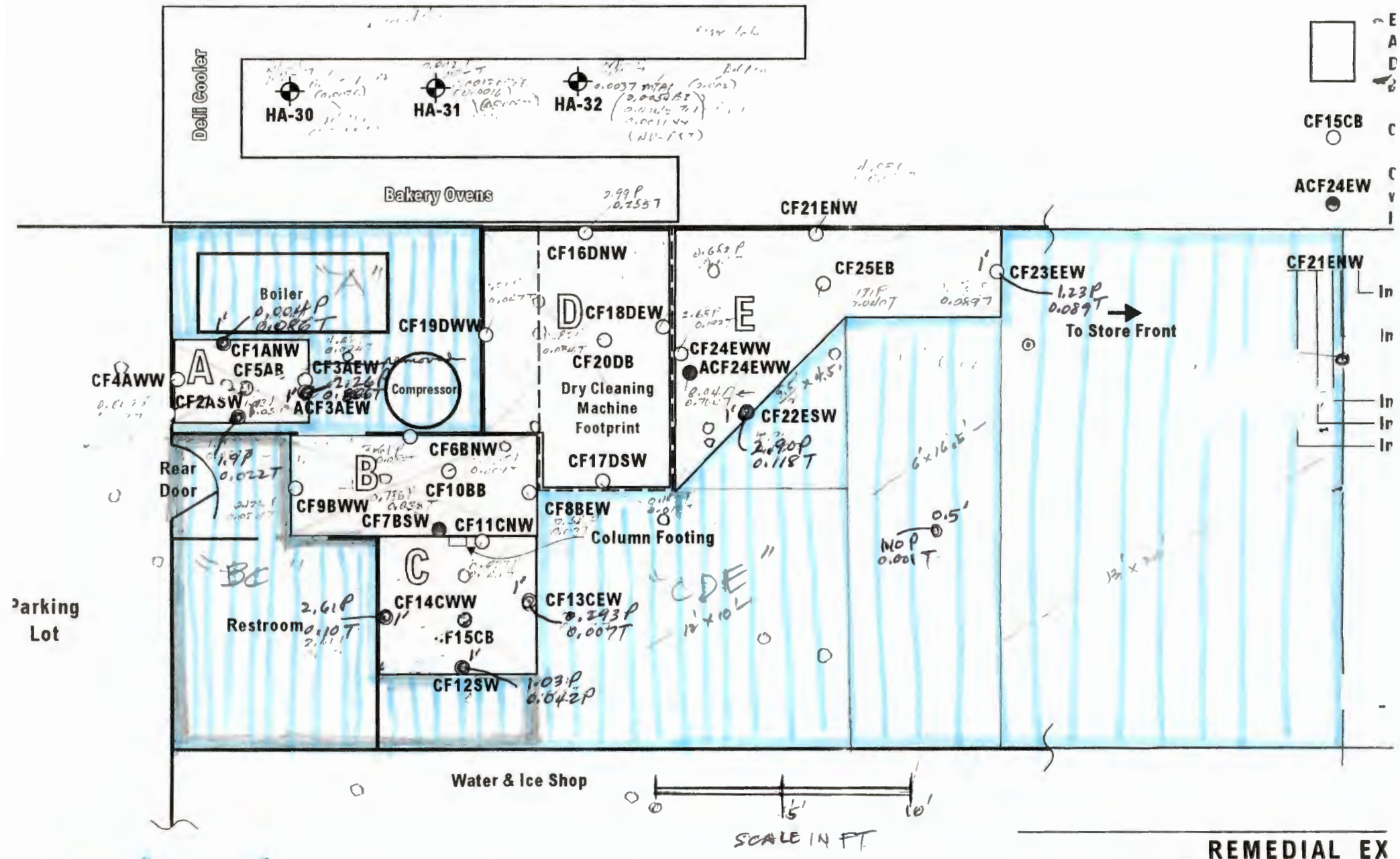
OR

CAS Number

127184

New Search

Inhalation Unit Risk $(\mu g/cubic\ meter)^{-1}$	0.0000059
Inhalation Slope Factor $(mg/kg\text{-}day)^{-1}$	0.021
Oral Slope Factor $(mg/kg\text{-}day)^{-1}$	0.54
USEPA Classification	-
IARC Classification	2B: The agent is possibly carcinogenic to humans
Comments	Number based on calculation from PHG
	OEHHA, 2002 Technical Support Document for Describing Available Cancer Potency Factors
Reference	
	Public Health Goal for Tetrachloroethylene in Drinking Water, Aug. 2001

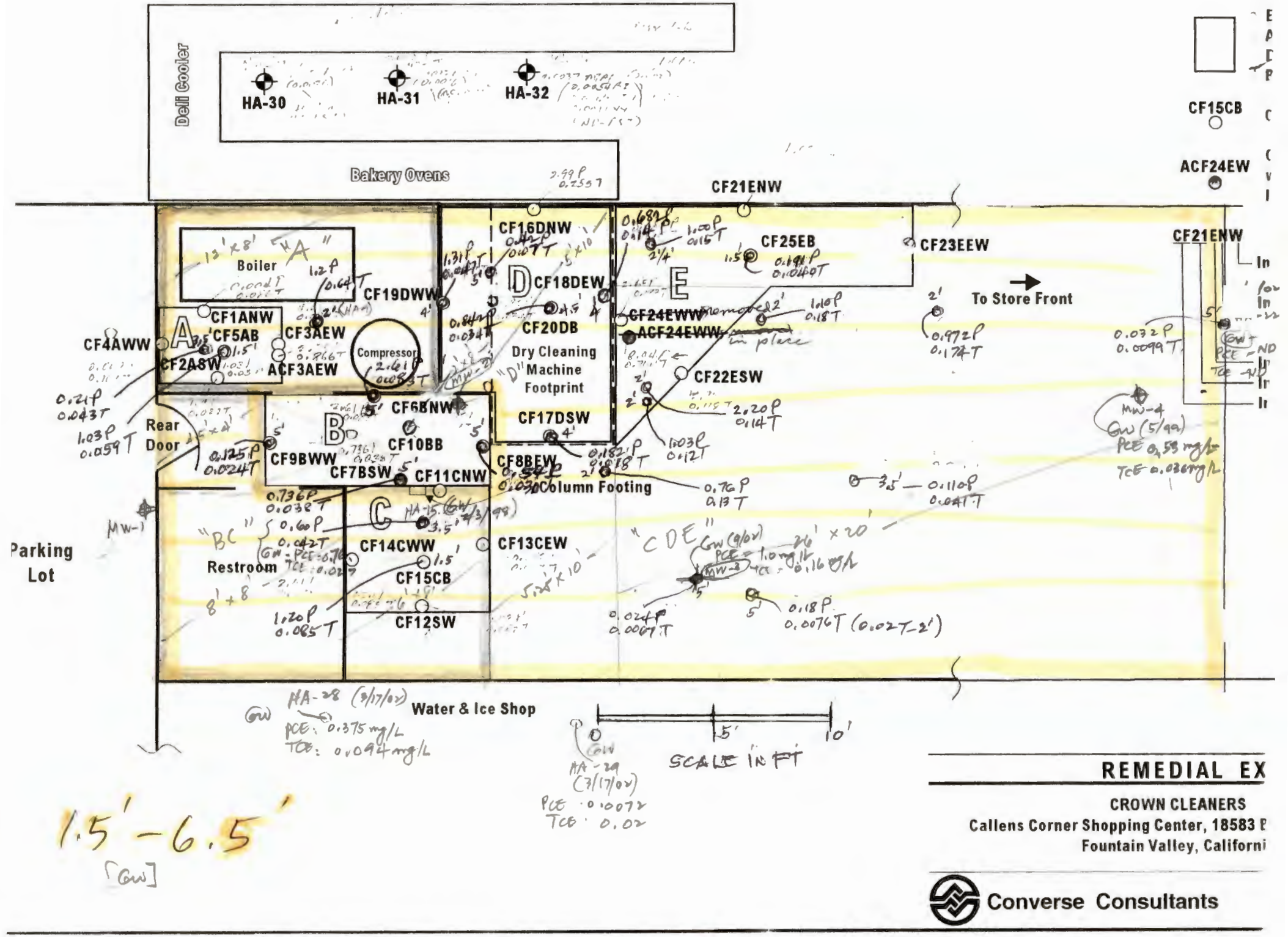


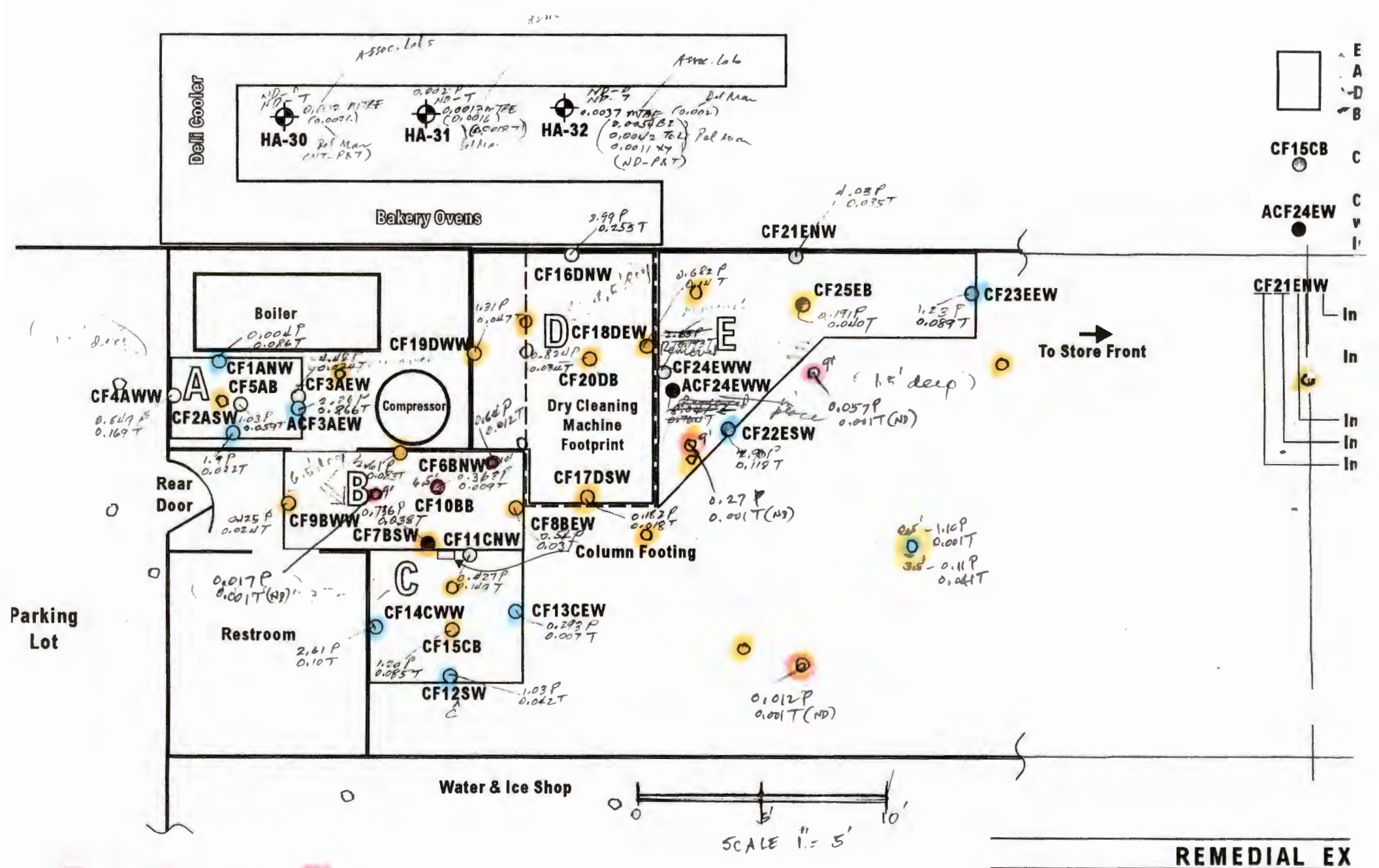
0.5'-1.5'

REMEDIAL EX

CROWN CLEANERS
Callens Corner Shopping Center, 18583 E
Fountain Valley, Californi

Converse Consultants


Deli Cooler
HA-30
HA-31
HA-32
Bakery Ovens
CF15CB
ACF24EW
CF21ENW
CF16DNW
CF25EB
CF23EEW
CF21ENW
Boiler
"A"
CF19DWW
CF18DEW
"D"
CF24EWW
ACF24EWW
To Store Front
CF1ANW
CF5AB
CF3AEW
CF4AWW
CF2A8W
ACF3AEW
Compressor
CF20DB
Dry Cleaning
"D" Machine
Footprint
CF22ESW
CF6BNW
CF17DSW
Rear
Door
CF10BB
CF9BWW
CF7BSW
CF11CNW
CF8BEW
Column Footing
"BC"
Restroom
CF14CWW
CF13CEW
CF15CB
CF12SW
"CDE"
Parking
Lot
MW-1
MW-2
MW-3
MW-4
HA-15
HA-28 (3/17/02)
GW
PCE: 0.375 mg/L
TCE: 0.094 mg/L
Water & Ice Shop
HA-29
(3/17/02)
PCE 0.0072
TCE 0.02
SCALE IN FT
0
5'
10'
1.5'-6.5'
[GW]
REMEDIAL EX
CROWN CLEANERS
Callens Corner Shopping Center, 18583 B
Fountain Valley, Californi
Converse Consultants



REMEDIAL EX

CROWN CLEANERS
Callens Corner Shopping Center, 18583 B
Fountain Valley, Californi

Converse Consultants

OCHCA MASS-BASED CONTAMINANT AND INCREASED CANCER RISK ASSESSMENT

Site: CROWN Cleaners	Revised 8/00		
Site contaminant: PCE --residual soil	12/30/02		
Staff: Lodrigueza	Run #		

TOTAL CONTAMINANT MASS UNDER BUILDING

Cmass-u = Cmass-1u + Cmass-2u + Cmass-3u + ...(Cmass-nu)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-u) total mass of contaminant under building = (Cmass-1u) mass of contaminant in area 1u under building + (Cmass-2u) mass of contaminant in area 2u under building + (Cmass-3u) mass of contaminant in area 3u under building	mg		6.89E+05
(Cmass-1u) mass of contaminant in area 1u = (Ct-1u) concentration of contaminant in area 1u * (Smass-1u) mass of soil in area 1u	mg		2.14E+05
(Ct-1u) concentration of contaminant in area 1u (IF CONTAMINANT MASS UNDER THE BUILDING IS NOT TO BE CALCULATED, **INPUT 0**)	mg/kg	8.04	
(Smass-1u) mass of soil in area 1 = (Bd-1u) bulk density of soil in area 1u * (Vs-1u) vol. of soil in area 1u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		2.66E+04
(Vs-1u) volume of soil in area 1u	m^3	19.3	
(Bd-1u) bulk density of area 1u = (Pd-1u) particle density of area 1u - [Pd-1u * (Pt-1u) total porosity of area 1u]	g/cm^3		1.38
(Pd-1u) particle density of area 1u (use 2.65 as default)	g/cm^3	2.65	
(Pt-1u) total porosity of area 1u	cm^3/cm^3	0.479	
(Cmass-2u) mass of contaminant in area 2u = (Ct-2u) concentration of contaminant in area 2u * (Smass-2u) mass of soil in area 2u	mg		3.71E+05
(Ct-2u) concentration of contaminant in area 2u **(INPUT 0 IF ONLY ONE AREA OF CONTAMINANT MASS UNDER THE BUILDING IS TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE OF THE BUILDING FOOTPRINT IS TO BE CALCULATED)**	mg/kg	2.61	
(Smass-2u) mass of soil in area 2u = (Bd-2u) bulk density of soil in area 2u * (Vs-2u) vol. of soil in area 2u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		1.42E+05
(Vs-2u) soil volume of area 2u	m^3	107.4	
(Bd-2u) bulk density of area 2u = (Pd-2u) particle density of area 2u - [Pd-2u * (Pt-2u) total porosity of area 2u]	g/cm^3		1.32
(Pd-2u) particle density of area 2u (use 2.65 as default)	g/cm^3	2.65	
(Pt-2u) total porosity of area 2u	cm^3/cm^3	0.501	
(Cmass-3u) mass of contaminant in area 3u = (Ct-3u) concentration of contaminant in area 3u * (Smass-3u) mass of soil in area 3u	mg		1.04E+05
(Ct-3u) concentration of contaminant in area 3u **(INPUT 0 IF ONLY TWO AREAS OF SOIL MASS UNDER THE BUILDING ARE TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS TO BE CALCULATED)**	mg/kg	0.64	

(Smass-3u) mass of soil in area 3 = (Bd-3u) bulk density of soil in area 3u * (Vs-3u) volume of soil in area 3u * unit conversion factor (10^6 cm / 1 m^3 * 1 kg / 10^3 g)	kg		1.63E+05
(Vs-3u) soil volume of area 3u	m^3	117.2	
(Bd-3u) bulk density of area 3u = (Pd-3u) particle density of area 3u - [Pd-3u * (Pt-3u) total porosity of area 3u]	g/cm^3		1.39
(Pd-3u) particle density of area 3u (use 2.65 as default)	g/cm^3	2.65	
(Pt-3u) total porosity of area 3u	cm^3/cm^3	0.475	

TOTAL CONTAMINANT MASS OUTSIDE OF BUILDING FOOTPRINT

Cmass-o = Cmass-1o + Cmass-2o + Cmass-3o + ...(Cmass-no)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-o) total mass of contaminant outside building footprint = (Cmass-1o) mass of contaminant in area 1o outside building + (Cmass-2o) mass in area 2o outside building + (Cmass-3o) mass in area 3o outside building.	mg		0.00E+00
(Cmass-1o) mass of contaminant in area 1o = (Ct-1o) concentration of contaminant in area 1o * (Smass-1o) mass of soil in area 1o	mg		0.00E+00
(Ct-1o) concentration of contaminant in area 1o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT TO BE CALCULATED, INPUT 0)	mg/kg		
(Smass-1o) mass of soil in area 3o = (Bd-1o) bulk density of soil in area 1o * (Vs-1o) volume of soil in area 1o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-1o) volume of soil in area 1o	m^3		
(Bd-1o) bulk density of area 1o = (Pd-1o) particle density of area 1o - [Pd-1o * (Pt-1o) total porosity of area 1o]	g/cm^3		2.65
(Pd-1o) particle density of area 1o (use 2.65 as default)	g/cm^3	2.65	
(Pt-1o) total porosity of area 1o	cm^3/cm^3		
(Cmass-2o) mass of contaminant in area 2o = (Ct-2o) concentration of contaminant in area 2o * (Smass-2o) mass of soil in area 2o	mg		0.00E+00
(Ct-2o) concentration of contaminant in area 2o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF ONLY THE CONTAMINANT MASS FOR OUTSIDE AREA 1 IS TO BE CALCULATED, INPUT 0)	mg/kg	0	
(Smass-2o) mass of soil in area 2o = (Bd-2o) bulk density of soil in area 2o * (Vs-2o) volume of soil in area 2o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-2o) volume of soil in area 2o	m^3	0	
(Bd-2o) bulk density of area 2o = (Pd-2o) particle density of area 2o - [Pd-2o * (Pt-2o) total porosity of area 2o]	g/cm^3		2.65
(Pd-2o) particle density of area 2o (use 2.65 as default)	g/cm^3	2.65	
(Pt-2uw) total porosity of area 2uw	cm^3/cm^3	0	
(Cmass-3o) mass of contaminant in area 3o = (Ct-3o) concentration of contaminant in area 3o * (Smass-3o) mass of soil in area 3o	mg		0.00E+00

(Ct-3o) concentration of contaminant in area 3o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF THE CONTAMINANT MASS FOR ONLY TWO OUTSIDE AREAS IS TO BE CALCULATED, **INPUT 0**)	mg/kg	0	
(Smass-3o) mass of soil in area 3o = (Bd-3o) bulk density of soil in area 3o * (Vs-3o) volume of soil in area 3o * unit conversion factor (10^6 cm^3/1m^3 * 1kg/10^3 g)	kg		0.00E+00
(Vs-3o) volume of soil in area 3o	m^3	0	
(Bd-3o) bulk density of area 3o = (Pd-3o) particle density of area 3o - [Pd-3o * (Pt-3o) total porosity of area 3o]	g/cm^3		2.65
(Pd-3o) particle density of area 3o (use 2.65 as default)	g/cm^3	2.65	
(Pt-3o) total porosity of area 3o	cm^3/cm^3	0	
INPUT 1, IF MODELING A CONTAMINANT, DIFFUSING FROM AN OUTSIDE CONTAMINANT SOURCE, BEING DIRECTED BELOW A BUILDING BY CONTINUOUS PAVING; INPUT 0, IF MODELING A CONTAMINANT SOURCE DIFFUSING FROM UNDER A BUILDING AND/OR AIRBORNE CONTAMINATION ENTERING A BUILDING VIA A SOIL SOURCE LOCATED OUTSIDE THE BUILDING FOOTPRINT.	dimensionless	0	

INTAKE (INHALATION) OF VAPOR PHASE

Where: Intake = {[(Cmass-o / u * h * W) + (Cmass-u * b / V * E)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

Variables	Units	Inputs	Outputs
(Cmass-o) mass of contaminant in soil located outside building footprint.	mg		0.00E+00
(u) mean wind speed	m/sec	2.25	1.00
(h) height of ambient air mixing zone (e.g. height of window or ventilation system intake)	m	3	1
(W) width of the source area outside building	m	6	1
(Cmass-u) total mass of contaminant under building	mg		6.89E+05
(b) attenuation factor	dimensionless	0.001	
(V) volume of building	m^3	442	442
(E) exchange rate	bldg. vol./sec	5.56E-04	5.56E-04
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		1.04E-07

INTAKE (INHALATION) OF VAPOR PHASE

Where: Intake = {[(1/2 Cmass-o * b / V * E * W)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

(Cmass-d) mass of contamination directed under building by continuous surface paving from contaminated soil located outside building footprint.	mg		0.00E+00
(b) attenuation factor	dimensionless	0.001	
(V) volume of building	m^3		1
(E) exchange rate	bldg. vol./sec	5.56E-04	1.00E+00
(W) width of the source area outside building	m	60	1
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		0.00E+00

EXCESS LIFETIME RISK CALCULATION

EXCESS LIFETIME RISK = SL0PE FACTOR * UNITS OF EXPOSURE

Variables	Units	Inputs	Outputs
carcinogenic slope factor (potency factor)	1/mg/kg/day	0.021	
units of exposure (from intake calculation above)	mg/kg/day		1.04E-07
excess lifetime cancer risk	dimensionless		2.18E-09

OCHCA MASS-BASED CONTAMINANT AND INCREASED CANCER RISK ASSESSMENT

Site: Crown Cleaners		Revised 8/00	
Site contaminant: TCE: direct input of total PCE mass	12/30/02		
Staff: Lodrigueza	Run #		

TOTAL CONTAMINANT MASS UNDER BUILDING

Cmass-u = Cmass-1u + Cmass-2u + Cmass-3u + ...(Cmass-nu)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-u) total mass of contaminant under building = (Cmass-1u) mass of contaminant in area 1u under building + (Cmass-2u) mass of contaminant in area 2u under building + (Cmass-3u) mass of contaminant in area 3u under building	mg		6.72E-01
(Cmass-1u) mass of contaminant in area 1u = (Ct-1u) concentration of contaminant in area 1u * (Smass-1u) mass of soil in area 1u	mg		0.00E+00
(Ct-1u) concentration of contaminant in area 1u (IF CONTAMINANT MASS UNDER THE BUILDING IS NOT TO BE CALCULATED, INPUT 0)	mg/kg		
(Smass-1u) mass of soil in area 1 = (Bd-1u) bulk density of soil in area 1u * (Vs-1u) vol. of soil in area 1u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		0.00E+00
(Vs-1u) volume of soil in area 1u	m^3		
(Bd-1u) bulk density of area 1u = (Pd-1u) particle density of area 1u - [Pd-1u * (Pt-1u) total porosity of area 1u]	g/cm^3		2.65
(Pd-1u) particle density of area 1u (use 2.65 as default)	g/cm^3	2.65	
(Pt-1u) total porosity of area 1u	cm^3/cm^3		
(Cmass-2u) mass of contaminant in area 2u = (Ct-2u) concentration of contaminant in area 2u * (Smass-2u) mass of soil in area 2u	mg		0.00E+00
(Ct-2u) concentration of contaminant in area 2u (INPUT 0 IF ONLY ONE AREA OF CONTAMINANT MASS UNDER THE BUILDING IS TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE OF THE BUILDING FOOTPRINT IS TO BE CALCULATED)	mg/kg		
(Smass-2u) mass of soil in area 2u = (Bd-2u) bulk density of soil in area 2u * (Vs-2u) vol. of soil in area 2u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		0.00E+00
(Vs-2u) soil volume of area 2u	m^3		
(Bd-2u) bulk density of area 2u = (Pd-2u) particle density of area 2u - [Pd-2u * (Pt-2u) total porosity of area 2u]	g/cm^3		2.65
(Pd-2u) particle density of area 2u (use 2.65 as default)	g/cm^3	2.65	
(Pt-2u) total porosity of area 2u	cm^3/cm^3		
(Cmass-3u) mass of contaminant in area 3u = (Ct-3u) concentration of contaminant in area 3u * (Smass-3u) mass of soil in area 3u	mg		0.00E+00
(Ct-3u) concentration of contaminant in area 3u (INPUT 0 IF ONLY TWO AREAS OF SOIL MASS UNDER THE BUILDING ARE TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS TO BE CALCULATED)	mg/kg		

(Smass-3u) mass of soil in area 3 = (Bd-3u) bulk density of soil in area 3u * (Vs-3u) volume of soil in area 3u * unit conversion factor (10^6 cm / 1 m^3 * 1 kg / 10^3 g)	kg		0.00E+00
(Vs-3u) soil volume of area 3u	m^3		
(Bd-3u) bulk density of area 3u = (Pd-3u) particle density of area 3u - [Pd-3u * (Pt-3u) total porosity of area 3u]	g/cm^3		2.65
(Pd-3u) particle density of area 3u (use 2.65 as default)	g/cm^3	2.65	
(Pt-3u) total porosity of area 3u	cm^3/cm^3		

TOTAL CONTAMINANT MASS OUTSIDE OF BUILDING FOOTPRINT

Cmass-o = Cmass-1o + Cmass-2o + Cmass-3o + ...(Cmass-no)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-o) total mass of contaminant outside building footprint = (Cmass-1o) mass of contaminant in area 1o outside building + (Cmass-2o) mass in area 2o outside building + (Cmass-3o) mass in area 3o outside building.	mg		0.00E+00
(Cmass-1o) mass of contaminant in area 1o = (Ct-1o) concentration of contaminant in area 1o * (Smass-1o) mass of soil in area 1o	mg		0.00E+00
(Ct-1o) concentration of contaminant in area 1o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT TO BE CALCULATED, INPUT 0)	mg/kg	0	
(Smass-1o) mass of soil in area 3o = (Bd-1o) bulk density of soil in area 1o * (Vs-1o) volume of soil in area 1o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-1o) volume of soil in area 1o	m^3		
(Bd-1o) bulk density of area 1o = (Pd-1o) particle density of area 1o - [Pd-1o * (Pt-1o) total porosity of area 1o]	g/cm^3		2.65
(Pd-1o) particle density of area 1o (use 2.65 as default)	g/cm^3	2.65	
(Pt-1o) total porosity of area 1o	cm^3/cm^3	0	
(Cmass-2o) mass of contaminant in area 2o = (Ct-2o) concentration of contaminant in area 2o * (Smass-2o) mass of soil in area 2o	mg		0.00E+00
(Ct-2o) concentration of contaminant in area 2o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF ONLY THE CONTAMINANT MASS FOR OUTSIDE AREA 1 IS TO BE CALCULATED, INPUT 0)	mg/kg	0	
(Smass-2o) mass of soil in area 2o = (Bd-2o) bulk density of soil in area 2o * (Vs-2o) volume of soil in area 2o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-2o) volume of soil in area 2o	m^3	0	
(Bd-2o) bulk density of area 2o = (Pd-2o) particle density of area 2o - [Pd-2o * (Pt-2o) total porosity of area 2o]	g/cm^3		2.65
(Pd-2o) particle density of area 2o (use 2.65 as default)	g/cm^3	2.65	
(Pt-2uw) total porosity of area 2uw	cm^3/cm^3	0	
(Cmass-3o) mass of contaminant in area 3o = (Ct-3o) concentration of contaminant in area 3o * (Smass-3o) mass of soil in area 3o	mg		0.00E+00

(Ct-3o) concentration of contaminant in area 3o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF THE CONTAMINANT MASS FOR ONLY TWO OUTSIDE AREAS IS TO BE CALCULATED, INPUT 0)	mg/kg	0	
(Smass-3o) mass of soil in area 3o = (Bd-3o) bulk density of soil in area 3o * (Vs-3o) volume of soil in area 3o * unit conversion factor (10^6 cm^3/1m^3 * 1kg/10^3 g)	kg		0.00E+00
(Vs-3o) volume of soil in area 3o	m^3	0	
(Bd-3o) bulk density of area 3o = (Pd-3o) particle density of area 3o - [Pd-3o * (Pt-3o) total porosity of area 3o]	g/cm^3		2.65
(Pd-3o) particle density of area 3o (use 2.65 as default)	g/cm^3	2.65	
(Pt-3o) total porosity of area 3o	cm^3/cm^3	0	
INPUT 1, IF MODELING A CONTAMINANT, DIFFUSING FROM AN OUTSIDE CONTAMINANT SOURCE, BEING DIRECTED BELOW A BUILDING BY CONTINUOUS PAVING; INPUT 0, IF MODELING A CONTAMINANT SOURCE DIFFUSING FROM UNDER A BUILDING AND/OR AIRBORNE CONTAMINATION ENTERING A BUILDING VIA A SOIL SOURCE LOCATED OUTSIDE THE BUILDING FOOTPRINT.	dimensionless	0	

INTAKE (INHALATION) OF VAPOR PHASE

Where: Intake = {[(Cmass-o / u * h * W) + (Cmass-u * b / V * E)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

Variables	Units	Inputs	Outputs
(Cmass-o) mass of contaminant in soil located outside building footprint.	mg		0.00E+00
(u) mean wind speed	m/sec	2.25	1.00
(h) height of ambient air mixing zone (e.g. height of window or ventilation system intake)	m	3	1
(W) width of the source area outside building	m	6	1
(Cmass-u) total mass of contaminant under building	mg		6.72E-01
(b) attenuation factor	dimensionless	0.001	
(V) volume of building	m^3	442	442
(E) exchange rate	bldg. vol./sec	5.56E-04	5.56E-04
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		1.01E-13

INTAKE (INHALATION) OF VAPOR PHASE

Where: Intake = {[(1/2 Cmass-o * b / V * E * W)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

(Cmass-d) mass of contamination directed under building by continuous surface paving from contaminated soil located outside building footprint.	mg		0.00E+00
(b) attenuation factor	dimensionless	0.001	
(V) volume of building	m^3		1
(E) exchange rate	bldg. vol./sec	5.56E-04	1.00E+00
(W) width of the source area outside building	m	60	1
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		0.00E+00

EXCESS LIFETIME RISK CALCULATION

EXCESS LIFETIME RISK = SL0PE FACTOR * UNITS OF EXPOSURE

Variables	Units	Inputs	Outputs
carcinogenic slope factor (potency factor)	1/mg/kg/day	0.007	
units of exposure (from intake calculation above)	mg/kg/day		1.01E-13
excess lifetime cancer risk	dimensionless		7.08E-16

OCHCA MASS-BASED CONTAMINANT AND INCREASED CANCER RISK ASSESSMENT

Site: Crown Cleaners	Revised 8/00		
Site contaminant: PCE: direct input of total PCE mass	12/30/02		
Staff: Lodrigueza	Run #		

TOTAL CONTAMINANT MASS UNDER BUILDING

Cmass-u = Cmass-1u + Cmass-2u + Cmass-3u + ...(Cmass-nu)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-u) total mass of contaminant under building = (Cmass-1u) mass of contaminant in area 1u under building + (Cmass-2u) mass of contaminant in area 2u under building + (Cmass-3u) mass of contaminant in area 3u under building	mg		4.20E+05
(Cmass-1u) mass of contaminant in area 1u = (Ct-1u) concentration of contaminant in area 1u * (Smass-1u) mass of soil in area 1u	mg		0.00E+00
(Ct-1u) concentration of contaminant in area 1u **(IF CONTAMINANT MASS UNDER THE BUILDING IS NOT TO BE CALCULATED, INPUT 0)**	mg/kg		
(Smass-1u) mass of soil in area 1 = (Bd-1u) bulk density of soil in area 1u * (Vs-1u) vol. of soil in area 1u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		0.00E+00
(Vs-1u) volume of soil in area 1u	m^3		
(Bd-1u) bulk density of area 1u = (Pd-1u) particle density of area 1u - [Pd-1u * (Pt-1u) total porosity of area 1u]	g/cm^3		2.65
(Pd-1u) particle density of area 1u (use 2.65 as default)	g/cm^3	2.65	
(Pt-1u) total porosity of area 1u	cm^3/cm^3		
(Cmass-2u) mass of contaminant in area 2u = (Ct-2u) concentration of contaminant in area 2u * (Smass-2u) mass of soil in area 2u	mg		0.00E+00
(Ct-2u) concentration of contaminant in area 2u **(INPUT 0 IF ONLY ONE AREA OF CONTAMINANT MASS UNDER THE BUILDING IS TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE OF THE BUILDING FOOTPRINT IS TO BE CALCULATED)**	mg/kg		
(Smass-2u) mass of soil in area 2u = (Bd-2u) bulk density of soil in area 2u * (Vs-2u) vol. of soil in area 2u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		0.00E+00
(Vs-2u) soil volume of area 2u	m^3		
(Bd-2u) bulk density of area 2u = (Pd-2u) particle density of area 2u - [Pd-2u * (Pt-2u) total porosity of area 2u]	g/cm^3		2.65
(Pd-2u) particle density of area 2u (use 2.65 as default)	g/cm^3	2.65	
(Pt-2u) total porosity of area 2u	cm^3/cm^3		
(Cmass-3u) mass of contaminant in area 3u = (Ct-3u) concentration of contaminant in area 3u * (Smass-3u) mass of soil in area 3u	mg		0.00E+00
(Ct-3u) concentration of contaminant in area 3u **(INPUT 0 IF ONLY TWO AREAS OF SOIL MASS UNDER THE BUILDING ARE TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS TO BE CALCULATED)**	mg/kg		

(Smass-3u) mass of soil in area 3 = (Bd-3u) bulk density of soil in area 3u * (Vs-3u) volume of soil in area 3u * unit conversion factor (10^6 cm / 1 m^3 * 1 kg / 10^3 g)	kg		0.00E+00
(Vs-3u) soil volume of area 3u	m^3		
(Bd-3u) bulk density of area 3u = (Pd-3u) particle density of area 3u - [Pd-3u * (Pt-3u) total porosity of area 3u]	g/cm^3		2.65
(Pd-3u) particle density of area 3u (use 2.65 as default)	g/cm^3	2.65	
(Pt-3u) total porosity of area 3u	cm^3/cm^3		

TOTAL CONTAMINANT MASS OUTSIDE OF BUILDING FOOTPRINT

Cmass-o = Cmass-1o + Cmass-2o + Cmass-3o + ...(Cmass-no)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-o) total mass of contaminant outside building footprint = (Cmass-1o) mass of contaminant in area 1o outside building + (Cmass-2o) mass in area 2o outside building + (Cmass-3o) mass in area 3o outside building.	mg		0.00E+00
(Cmass-1o) mass of contaminant in area 1o = (Ct-1o) concentration of contaminant in area 1o * (Smass-1o) mass of soil in area 1o	mg		0.00E+00
(Ct-1o) concentration of contaminant in area 1o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT TO BE CALCULATED, INPUT 0)	mg/kg	0	
(Smass-1o) mass of soil in area 3o = (Bd-1o) bulk density of soil in area 1o * (Vs-1o) volume of soil in area 1o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-1o) volume of soil in area 1o	m^3		
(Bd-1o) bulk density of area 1o = (Pd-1o) particle density of area 1o - [Pd-1o * (Pt-1o) total porosity of area 1o]	g/cm^3		2.65
(Pd-1o) particle density of area 1o (use 2.65 as default)	g/cm^3	2.65	
(Pt-1o) total porosity of area 1o	cm^3/cm^3	0	
(Cmass-2o) mass of contaminant in area 2o = (Ct-2o) concentration of contaminant in area 2o * (Smass-2o) mass of soil in area 2o	mg		0.00E+00
(Ct-2o) concentration of contaminant in area 2o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF ONLY THE CONTAMINANT MASS FOR OUTSIDE AREA 1 IS TO BE CALCULATED, INPUT 0)	mg/kg	0	
(Smass-2o) mass of soil in area 2o = (Bd-2o) bulk density of soil in area 2o * (Vs-2o) volume of soil in area 2o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-2o) volume of soil in area 2o	m^3	0	
(Bd-2o) bulk density of area 2o = (Pd-2o) particle density of area 2o - [Pd-2o * (Pt-2o) total porosity of area 2o]	g/cm^3		2.65
(Pd-2o) particle density of area 2o (use 2.65 as default)	g/cm^3	2.65	
(Pt-2uw) total porosity of area 2uw	cm^3/cm^3	0	
(Cmass-3o) mass of contaminant in area 3o = (Ct-3o) concentration of contaminant in area 3o * (Smass-3o) mass of soil in area 3o	mg		0.00E+00

(Ct-3o) concentration of contaminant in area 3o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF THE CONTAMINANT MASS FOR ONLY TWO OUTSIDE AREAS IS TO BE CALCULATED, **INPUT 0**)	mg/kg	0	
(Smass-3o) mass of soil in area 3o = (Bd-3o) bulk density of soil in area 3o * (Vs-3o) volume of soil in area 3o * unit conversion factor (10^6 cm^3/1m^3 * 1kg/10^3 g)	kg		0.00E+00
(Vs-3o) volume of soil in area 3o	m^3	0	
(Bd-3o) bulk density of area 3o = (Pd-3o) particle density of area 3o - [Pd-3o * (Pt-3o) total porosity of area 3o]	g/cm^3		2.65
(Pd-3o) particle density of area 3o (use 2.65 as default)	g/cm^3	2.65	
(Pt-3o) total porosity of area 3o	cm^3/cm^3	0	
INPUT 1, IF MODELING A CONTAMINANT, DIFFUSING FROM AN OUTSIDE CONTAMINANT SOURCE, BEING DIRECTED BELOW A BUILDING BY CONTINUOUS PAVING; INPUT 0, IF MODELING A CONTAMINANT SOURCE DIFFUSING FROM UNDER A BUILDING AND/OR AIRBORNE CONTAMINATION ENTERING A BUILDING VIA A SOIL SOURCE LOCATED OUTSIDE THE BUILDING FOOTPRINT.	dimensionless	0	

INTAKE (INHALATION) OF VAPOR PHASE

Where: Intake = {[(Cmass-o / u * h * W) + (Cmass-u * b / V * E)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

Variables	Units	Inputs	Outputs
(Cmass-o) mass of contaminant in soil located outside building footprint.	mg		0.00E+00
(u) mean wind speed	m/sec	2.25	1.00
(h) height of ambient air mixing zone (e.g. height of window or ventilation system intake)	m	3	1
(W) width of the source area outside building	m	6	1
(Cmass-u) total mass of contaminant under building	mg		4.20E+05
(b) attenuation factor	dimensionless	0.001	
(V) volume of building	m^3	442	442
(E) exchange rate	bldg. vol./sec	5.56E-04	5.56E-04
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		6.33E-08

INTAKE (INHALATION) OF VAPOR PHASE

Where: Intake = {[(1/2 Cmass-o * b / V * E * W)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

(Cmass-d) mass of contamination directed under building by continuous surface paving from contaminated soil located outside building footprint.	mg		0.00E+00
(b) attenuation factor	dimensionless	0.001	
(V) volume of building	m^3		1
(E) exchange rate	bldg. vol./sec	5.56E-04	1.00E+00
(W) width of the source area outside building	m	60	1
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		0.00E+00

EXCESS LIFETIME RISK CALCULATION

EXCESS LIFETIME RISK = SL0PE FACTOR * UNITS OF EXPOSURE

Variables	Units	Inputs	Outputs
carcinogenic slope factor (potency factor)	1/mg/kg/day	0.021	
units of exposure (from intake calculation above)	mg/kg/day		6.33E-08
excess lifetime cancer risk	dimensionless		1.33E-09

OCHCA MASS-BASED CONTAMINANT AND INCREASED CANCER RISK ASSESSMENT

Site: Crown Cleaners	Revised 8/00		
Site contaminant: TCE	12/30/02		
Staff: Lodrigueza	Run #		

TOTAL CONTAMINANT MASS UNDER BUILDING

Cmass-u = Cmass-1u + Cmass-2u + Cmass-3u + ...(Cmass-nu)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-u) total mass of contaminant under building = (Cmass-1u) mass of contaminant in area 1u under building + (Cmass-2u) mass of contaminant in area 2u under building + (Cmass-3u) mass of contaminant in area 3u under building	mg		1.16E+05
(Cmass-1u) mass of contaminant in area 1u = (Ct-1u) concentration of contaminant in area 1u * (Smass-1u) mass of soil in area 1u	mg		2.31E+04
(Ct-1u) concentration of contaminant in area 1u (IF CONTAMINANT MASS UNDER THE BUILDING IS NOT TO BE CALCULATED, **INPUT 0**)	mg/kg	0.866	
(Smass-1u) mass of soil in area 1 = (Bd-1u) bulk density of soil in area 1u * (Vs-1u) vol. of soil in area 1u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		2.66E+04
(Vs-1u) volume of soil in area 1u	m^3	19.3	
(Bd-1u) bulk density of area 1u = (Pd-1u) particle density of area 1u - [Pd-1u * (Pt-1u) total porosity of area 1u]	g/cm^3		1.38
(Pd-1u) particle density of area 1u (use 2.65 as default)	g/cm^3	2.65	
(Pt-1u) total porosity of area 1u	cm^3/cm^3	0.479	
(Cmass-2u) mass of contaminant in area 2u = (Ct-2u) concentration of contaminant in area 2u * (Smass-2u) mass of soil in area 2u	mg		9.09E+04
(Ct-2u) concentration of contaminant in area 2u (**INPUT 0** IF ONLY ONE AREA OF CONTAMINANT MASS UNDER THE BUILDING IS TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE OF THE BUILDING FOOTPRINT IS TO BE CALCULATED)	mg/kg	0.64	
(Smass-2u) mass of soil in area 2u = (Bd-2u) bulk density of soil in area 2u * (Vs-2u) vol. of soil in area 2u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		1.42E+05
(Vs-2u) soil volume of area 2u	m^3	107.4	
(Bd-2u) bulk density of area 2u = (Pd-2u) particle density of area 2u - [Pd-2u * (Pt-2u) total porosity of area 2u]	g/cm^3		1.32
(Pd-2u) particle density of area 2u (use 2.65 as default)	g/cm^3	2.65	
(Pt-2u) total porosity of area 2u	cm^3/cm^3	0.501	
(Cmass-3u) mass of contaminant in area 3u = (Ct-3u) concentration of contaminant in area 3u * (Smass-3u) mass of soil in area 3u	mg		1.96E+03
(Ct-3u) concentration of contaminant in area 3u (**INPUT 0** IF ONLY TWO AREAS OF SOIL MASS UNDER THE BUILDING ARE TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS TO BE CALCULATED)	mg/kg	0.012	

(Smass-3u) mass of soil in area 3 = (Bd-3u) bulk density of soil in area 3u * (Vs-3u) volume of soil in area 3u * unit conversion factor (10^6 cm / 1 m^3 * 1 kg / 10^3 g)	kg		1.63E+05
(Vs-3u) soil volume of area 3u	m^3	117.2	
(Bd-3u) bulk density of area 3u = (Pd-3u) particle density of area 3u - [Pd-3u * (Pt-3u) total porosity of area 3u]	g/cm^3		1.39
(Pd-3u) particle density of area 3u (use 2.65 as default)	g/cm^3	2.65	
(Pt-3u) total porosity of area 3u	cm^3/cm^3	0.475	

TOTAL CONTAMINANT MASS OUTSIDE OF BUILDING FOOTPRINT

Cmass-o = Cmass-1o + Cmass-2o + Cmass-3o + ...(Cmass-no)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-o) total mass of contaminant outside building footprint = (Cmass-1o) mass of contaminant in area 1o outside building + (Cmass-2o) mass in area 2o outside building + (Cmass-3o) mass in area 3o outside building.	mg		0.00E+00
(Cmass-1o) mass of contaminant in area 1o = (Ct-1o) concentration of contaminant in area 1o * (Smass-1o) mass of soil in area 1o	mg		0.00E+00
(Ct-1o) concentration of contaminant in area 1o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT TO BE CALCULATED, INPUT 0)	mg/kg	0	
(Smass-1o) mass of soil in area 3o = (Bd-1o) bulk density of soil in area 1o * (Vs-1o) volume of soil in area 1o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-1o) volume of soil in area 1o	m^3	0	
(Bd-1o) bulk density of area 1o = (Pd-1o) particle density of area 1o - [Pd-1o * (Pt-1o) total porosity of area 1o]	g/cm^3		2.65
(Pd-1o) particle density of area 1o (use 2.65 as default)	g/cm^3	2.65	
(Pt-1o) total porosity of area 1o	cm^3/cm^3	0	
(Cmass-2o) mass of contaminant in area 2o = (Ct-2o) concentration of contaminant in area 2o * (Smass-2o) mass of soil in area 2o	mg		0.00E+00
(Ct-2o) concentration of contaminant in area 2o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF ONLY THE CONTAMINANT MASS FOR OUTSIDE AREA 1 IS TO BE CALCULATED, INPUT 0)	mg/kg	0	
(Smass-2o) mass of soil in area 2o = (Bd-2o) bulk density of soil in area 2o * (Vs-2o) volume of soil in area 2o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-2o) volume of soil in area 2o	m^3	0	
(Bd-2o) bulk density of area 2o = (Pd-2o) particle density of area 2o - [Pd-2o * (Pt-2o) total porosity of area 2o]	g/cm^3		2.65
(Pd-2o) particle density of area 2o (use 2.65 as default)	g/cm^3	2.65	
(Pt-2uw) total porosity of area 2uw	cm^3/cm^3	0	
(Cmass-3o) mass of contaminant in area 3o = (Ct-3o) concentration of contaminant in area 3o * (Smass-3o) mass of soil in area 3o	mg		0.00E+00

(Ct-3o) concentration of contaminant in area 3o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF THE CONTAMINANT MASS FOR ONLY TWO OUTSIDE AREAS IS TO BE CALCULATED, **INPUT 0**)	mg/kg	0	
(Smass-3o) mass of soil in area 3o = (Bd-3o) bulk density of soil in area 3o * (Vs-3o) volume of soil in area 3o * unit conversion factor (10^6 cm^3/1m^3 * 1kg/10^3 g)	kg		0.00E+00
(Vs-3o) volume of soil in area 3o	m^3	0	
(Bd-3o) bulk density of area 3o = (Pd-3o) particle density of area 3o - [Pd-3o * (Pt-3o) total porosity of area 3o]	g/cm^3		2.65
(Pd-3o) particle density of area 3o (use 2.65 as default)	g/cm^3	2.65	
(Pt-3o) total porosity of area 3o	cm^3/cm^3	0	
INPUT 1, IF MODELING A CONTAMINANT, DIFFUSING FROM AN OUTSIDE CONTAMINANT SOURCE, BEING DIRECTED BELOW A BUILDING BY CONTINUOUS PAVING; INPUT 0, IF MODELING A CONTAMINANT SOURCE DIFFUSING FROM UNDER A BUILDING AND/OR AIRBORNE CONTAMINATION ENTERING A BUILDING VIA A SOIL SOURCE LOCATED OUTSIDE THE BUILDING FOOTPRINT.	dimensionless	0	

INTAKE (INHALATION) OF VAPOR PHASE

Where: Intake = {[(Cmass-o / u * h * W) + (Cmass-u * b / V * E)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

Variables	Units	Inputs	Outputs
(Cmass-o) mass of contaminant in soil located outside building footprint.	mg		0.00E+00
(u) mean wind speed	m/sec	2.25	1.00
(h) height of ambient air mixing zone (e.g. height of window or ventilation system intake)	m	3	1
(W) width of the source area outside building	m	6	1
(Cmass-u) total mass of contaminant under building	mg		1.16E+05
(b) attenuation factor	dimensionless	0.001	
(V) volume of building	m^3	442	442
(E) exchange rate	bldg. vol./sec	5.56E-04	5.56E-04
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		1.75E-08

INTAKE (INHALATION) OF VAPOR PHASE

Where: Intake = {[(1/2 Cmass-o * b / V * E * W)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

(Cmass-d) mass of contamination directed under building by continuous surface paving from contaminated soil located outside building footprint.	mg		0.00E+00
(b) attenuation factor	dimensionless	0.001	
(V) volume of building	m^3	442	1
(E) exchange rate	bldg. vol./sec	5.56E-04	1.00E+00
(W) width of the source area outside building	m	60	1
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		0.00E+00

EXCESS LIFETIME RISK CALCULATION

EXCESS LIFETIME RISK = SL0PE FACTOR * UNITS OF EXPOSURE

Variables	Units	Inputs	Outputs
carcinogenic slope factor (potency factor)	1/mg/kg/day	0.007	
units of exposure (from intake calculation above)	mg/kg/day		1.78E-08
excess lifetime cancer risk	dimensionless		1.24E-10

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Converse Project No. 00-42-703-02

Boring Number	Soil Sample Location	Date Sampled	EPA METHOD 8260			
			PCE (ppm)	TCE (ppm)	cis-1,2DCE (ppm)	trans-1,2DCE (ppm)
22 @ 2	Dry Cleaning Suite	3/17/2002	ND	ND	.0032 (J)	ND
22 @ 5	" "	3/17/2002	0.032	0.0099	.0019 (J)	ND
22 @ 10	" "	3/17/2002	ND	ND	ND	ND
23 @ 2	" "	3/17/2002	0.972	0.174	0.051	.0025 (J)
23 @ 5	" "	3/17/2002	0.244	0.074	0.017	.0018 (J)
23 @ 10	" "	3/17/2002	0.08	0.0053	ND	ND
24 @ 2	" "	3/17/2002	**13.20**	0.643	0.016	.0025 (J)
24 @ 5	" "	3/17/2002	2.98	0.11	0.017	.0024 (J)
24 @ 10	" "	3/17/2002	0.017	ND	ND	ND
25 @ 2	Albertson's	3/18/2002	0.0058	0.011	0.0051	ND
25 @ 5	" "	3/18/2002	3.34	0.109	0.0062	ND
25 @ 10	" "	3/18/2002	0.036	.0014 (J)	ND	ND
26 @ 2	" "	3/18/2002	.0015 (J)	ND	ND	ND
26 @ 5	" "	3/18/2002	0.021	.0044 (J)	.0011 (J)	ND
26 @ 10	" "	3/18/2002	0.134	0.0056	ND	ND
27 @ 2	" "	3/18/2002	ND	ND	ND	ND
27 @ 5	" "	3/18/2002	0.031	.0019 (J)	ND	ND
27 @ 10	" "	3/18/2002	ND	ND	ND	ND
28 @ 2	Water & Ice	3/18/2002	0.833	0.151	0.032	.0022 (J)
28 @ 5	" "	3/18/2002	1.08	0.057	0.0089	ND
28 @ 10	" "	3/18/2002	0.655	0.094	0.0089	ND
29 @ 2	" "	3/18/2002	0.35	0.365	0.114	0.0059
29 @ 5	" "	3/18/2002	0.752	0.174	0.055	.0037 (J)
29 @ 10	" "	3/18/2002	0.447	0.082	0.006	ND
Detection Limits			0.005	0.005	0.005	0.005

EXPLANATION

PCE - Tetrachloroethene
TCE - Trichloroethene
cis-1,2-DCE- cis-1,2-Dichloroethene
trans-1,2-DCE trans-1,2-Dichloroethene
ppm- mg/kg (parts per million)
ND- Not detected above method detection limits
13.2 Exceeds Residential PRG of 5.7 ppm
J Indicates a value between the minimum detection limit and the detection limit used for reporting puirposes.

TABLE 2

GROUNDWATER SAMPLE ANALYTICAL RESULTS

Converse Project No. 00-42-703-02

Boring Number	Groundwater Sample Location	Date Sampled	EPA METHOD 8260 OR 8021			
			PCE (ppm)	TCE (ppm)	cis-1,2DCE (ppm)	trans-1,2DCE (ppm)
22 @ GW	Dry Cleaning Suite	3/17/2002	ND	ND	ND	ND
27 @ GW	Albertson's	3/18/2002	ND	ND	ND	ND
28 @ GW	Water and Ice	3/18/2002	0.375	0.094	0.01	ND
29 @ GW	" "	3/18/2002	0.0072	0.02	.0033 (J)	ND
MW-1	MW-1	4/17/2002	0.066	0.113	0.03	ND
MW-5	MW-5	4/17/2002	ND	ND	ND	ND
MW-6	MW-6	4/17/2002	ND	ND	ND	ND
MW-7	MW-7	4/17/2002	ND	ND	ND	ND
Detection Limits			**0.005**	**0.005**	**0.005**	**0.005**

EXPLANATION

PCE - Tetrachloroethene
TCE - Trichloroethene
cis-1,2-DCE- cis-1,2-Dichloroethene
trans-1,2-DCE trans-1,2-Dichloroethene
ppm- mg/kg (parts per million)
ND- Not detected above method detection limits

On June 28, 2002, the floor in the vicinity of the dry cleaning machine was coated with a PCE-resistant paint and baseboards were installed on the walls in the vicinity of the dry cleaning machine. Upon curing of the floor coating, the dry cleaning machine and containment pan were reinstalled. Secondary containment pans were subsequently installed beneath the evaporator and drums containing waste PCE and filters.

On July 10, 2002, approximately 55-yd^3 of PCE-affected soil was delivered to Kettleman Hills Disposal Facility (a Class I Landfill) in Kettleman City, California for disposal. A copy of the transportation and disposal manifest is presented in Appendix C.

GROUNDWATER SAMPLING

On July 25, 2002, in compliance with the OCHCA request for additional groundwater sampling, Converse completed three soil borings inside the Albertson's Market to the north of the site. Borings HA-30, HA-31, and HA-32 were completed to a depth of approximately 16-feet bgs using a limited access hydraulically driven Geoprobe drilling rig. Upon completion of the borings, groundwater samples were recovered using a low flow pump and Teflon tubing. The samples were collected in 40-milliliter VOA Vials, labeled, placed in a chilled ice chest and transported to a state certified laboratory for analysis. The samples were handled and transported using EPA chain-of-custody protocol. During sampling duplicate samples were collected for submittal to a secondary laboratory for the purpose of quality assurance and quality control measures.

All of the groundwater samples were analyzed for Volatile Organic Compounds (VOCs) using EPA Method 8260 by Associated Laboratories in Orange California, duplicate samples were also submitted to Del Mar Analytical Laboratory. The groundwater PCE analytical results are summarized below. For the analytical results for analytes other than PCE, see the complete Laboratory analytical Report in Appendix B.

TABLE 2
Groundwater Sample PCE Analytical Results

Sample Number	Location	PCE Analytical Result (ug/l)
HA-30	Albertson's	ND ***(ND)***
HA-31	Albertson's	0.002 ***(0.0018)***
HA-32	Albertson's	ND ***(ND)***

ug/l = micrograms per liter
ND = not detected at the laboratory reporting limit
BOLD ITIALICS = secondary lab results

TABLE 1
Confirmation Sample PCE Analytical Results

Sample Number	Location	PCE Analytical Result (mg/kg)
CF1ANW	Excavation A North Wall	0.004
CF2ASW	Excavation A South Wall	1.90
CF3AEW	Excavation A East Wall	~~4.480~~ removed
ACF3AEW	Excavation A East Wall Resample	2.260
CF4AWW	Excavation A West Wall	0.649
CF5AB	Excavation A Bottom	1.030
CF6BNW	Excavation B North Wall	2.610 5.5'
CF7BSW	Excavation B South Wall	~~7.36~~ 5.5' 0.736
CF8BEW	Excavation B East Wall	0.540 5.5'
CF9BWW	Excavation B West Wall	0.125 5.5'
CF10BB	Excavation B Bottom	6.5' 0.363
CF11CNW	Excavation C North Wall	0.427 1.0'
CF12CSW	Excavation C South Wall	1.030
CF13CEW	Excavation C East Wall	0.293 1.0'
CF14CWW	Excavation C West Wall	2.610 1.0'
CF15CB	Excavation C Bottom	1.5' 1.200
CF16DNW	Excavation D North Wall	2.990 3.5' (foundation)
CF17DSW	Excavation D South Wall	0.182 3.5'
CF18DEW	Excavation D East Wall	3.5' 0.682

PCE | cis 1,2 DCE | VC
0.086 | 0.007J
0.022 | ND
REMOVED
2.86 | 0.165
0.169 | 0.019
0.059 | 0.007
0.083 | 0.007
0.035 | 0.012
0.030 | 0.005
0.021 | 0.018
0.010 | ND
0.129 | 0.034
0.042 | ND
0.007 | ND
0.10 | ND
0.085 | 0.006
0.385 | 0.010
0.018 | ND
0.12 | 0.018

TABLE 1
Confirmation Sample PCE Analytical Results

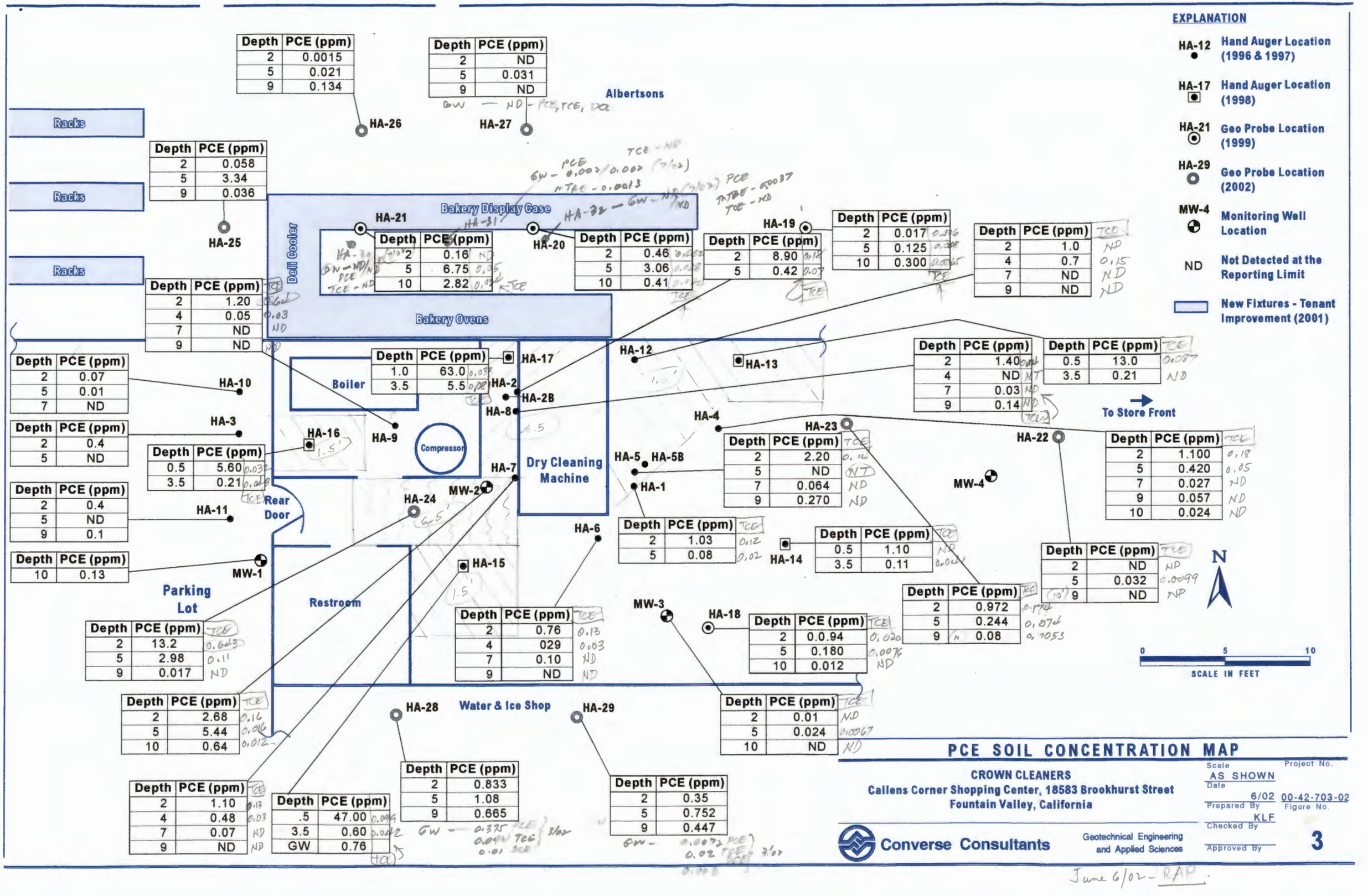
Sample Number	Location	PCE Analytical Result (mg/kg)
CF19DWW	Excavation D West Wall	1.31
CF20DB	Excavation D Bottom	0.824
CF21ENW	Excavation E North Wall	4.030
CF22ESW	Excavation E South Wall	2.900
CF23EEW	Excavation E East Wall	1.230
CF24EWW	Excavation E West Wall	2.650
ACF24EWW	Excavation E West Wall Resample	8.040
CF25EB	Excavation E Bottom	0.191

mg/kg = milligrams per kilogram
ND = not detected at the laboratory reporting limit

Analytical results indicated that the confirmation samples, with the exception of ~~two~~ one samples, contained PCE concentrations less than the 5.7 mg/kg residential PRG. Analytical results of Samples ~~CF7BSW and~~ ACF24EWW indicated PCE concentrations of ~~7.30 and~~ 8.04 mg/kg (respectively) in ~~these~~ this sample. Sample CF7BSW was collected from the south wall of excavation area B, located adjacent to a column footing. To avoid undermining this footing, no additional soil in this area was removed. During the sampling activities Mr. Louis Lodrigueza requested the removal of approximately one to two additional feet of soil along the west side of excavation E (in the vicinity of Sample CF24EWW). Upon completing this removal, Sample ACF24EWW was collected and no further excavation was completed. Based on the results the remedial activities and previous soil samples collected in these excavations, Converse estimates that less than 0.5-cubic yard (yd^3) and less than 1-yd^3 of soil affected by PCE concentrations of greater than 5.7 mg/kg was left in place in the excavations B and E respectively.

The complete confirmation sample analytical results are presented in the Laboratory Analytical Report in Appendix B.

Upon completion of the confirmation sampling, the excavation was backfilled with sand slurry and finished with four–inches of concrete, reinforced with rebar, to match the existing floor.



Depth	PCE (ppm)
2	0.0015
5	0.021
9	0.134

Depth	PCE (ppm)
2	ND
5	0.031
9	ND

GW — ND — PCE, TCE, TCE

Depth	PCE (ppm)
2	0.058
5	3.34
9	0.036

Depth	PCE (ppm)
2	1.20
4	0.05
7	ND
9	ND

Depth	PCE (ppm)
2	0.07
5	0.01
7	ND

Depth	PCE (ppm)
2	0.4
5	ND

Depth	PCE (ppm)
0.5	5.60
3.5	0.21

Depth	PCE (ppm)
2	0.4
5	ND
9	0.1

Depth	PCE (ppm)
10	0.13

Depth	PCE (ppm)
2	13.2
5	2.98
9	0.017

Depth	PCE (ppm)
2	2.68
5	5.44
10	0.64

Depth	PCE (ppm)
2	1.10
4	0.48
7	0.07
9	ND

Depth	PCE (ppm)
.5	47.00
3.5	0.60
GW	0.76

Depth	PCE (ppm)
1.0	63.0
3.5	5.5

Depth	PCE (ppm)
2	0.16
5	6.75
10	2.82

Depth	PCE (ppm)
2	0.46
5	3.06
10	0.41

Depth	PCE (ppm)
2	8.90
5	0.42

Depth	PCE (ppm)
2	0.017
5	0.125
10	0.300

Depth	PCE (ppm)
2	1.0
4	0.7
7	ND
9	ND

Depth	PCE (ppm)
2	1.40
4	ND
7	0.03
9	0.14

Depth	PCE (ppm)
0.5	13.0
3.5	0.21

Depth	PCE (ppm)
2	2.20
5	ND
7	0.064
9	0.270

Depth	PCE (ppm)
2	1.03
5	0.08

Depth	PCE (ppm)
0.5	1.10
3.5	0.11

Depth	PCE (ppm)
2	1.100
5	0.420
7	0.027
9	0.057
10	0.024

Depth	PCE (ppm)
2	ND
5	0.032
9	ND

Depth	PCE (ppm)
2	0.972
5	0.244
9	0.08

Depth	PCE (ppm)
2	0.0.94
5	0.180
10	0.012

Depth	PCE (ppm)
2	0.01
5	0.024
10	ND

Depth	PCE (ppm)
2	0.833
5	1.08
9	0.665

Depth	PCE (ppm)
2	0.35
5	0.752
9	0.447

EXPLANATION

- HA-12 — Hand Auger Location (1996 & 1997)
- HA-17 — Hand Auger Location (1998)
- HA-21 — Geo Probe Location (1999)
- HA-29 — Geo Probe Location (2002)
- MW-4 — Monitoring Well Location
- ND — Not Detected at the Reporting Limit
- New Fixtures - Tenant Improvement (2001)

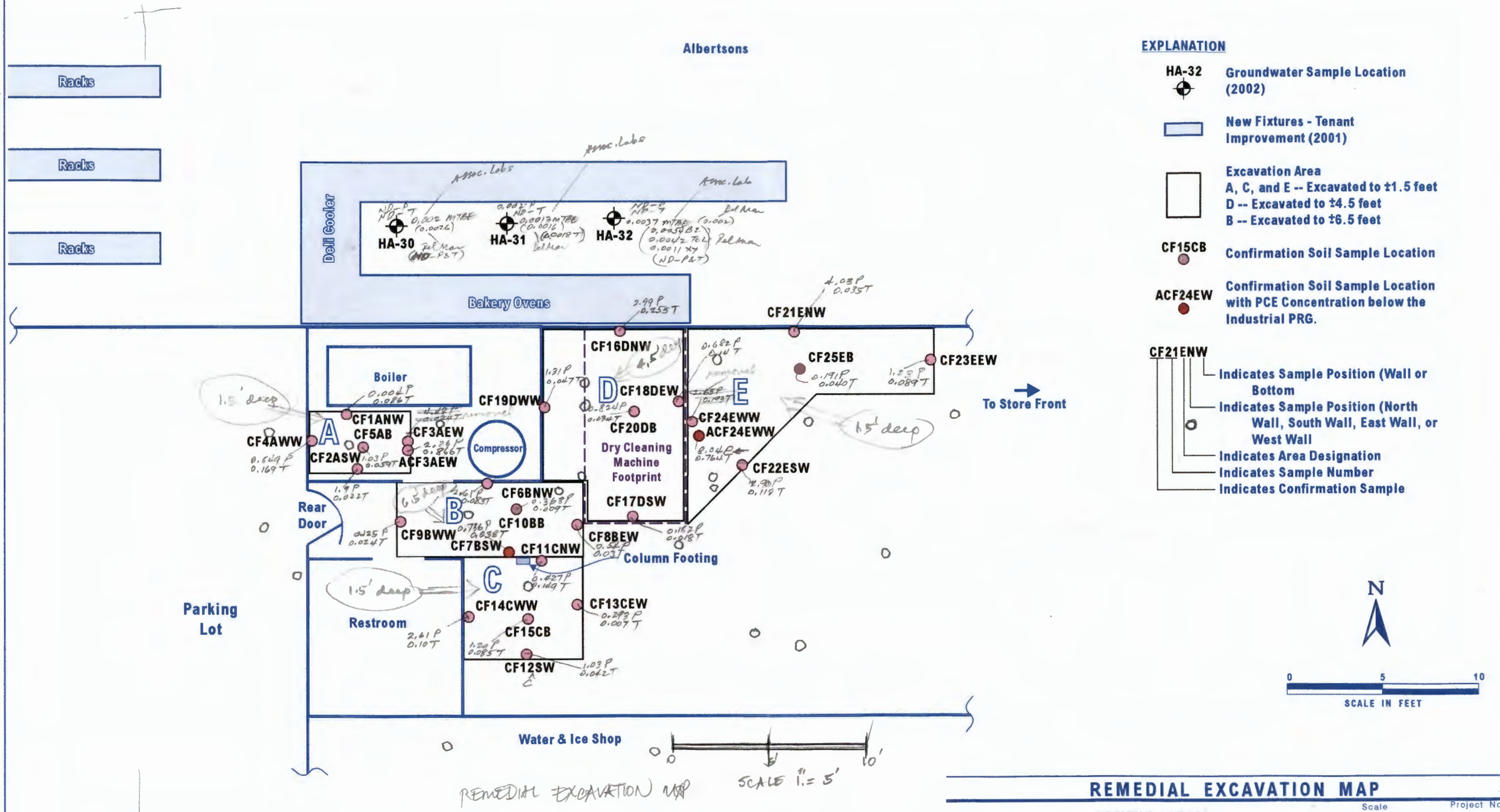
PCE SOIL CONCENTRATION MAP

CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Converse Consultants — Geotechnical Engineering and Applied Sciences

Scale: AS SHOWN
Date: 6/02
Prepared By: KLF
Checked By:
Approved By:
Project No.: 00-42-703-02
Figure No.: 3

June 6/02 - RAP



REMEDIAL EXCAVATION MAP

EXPLANATION

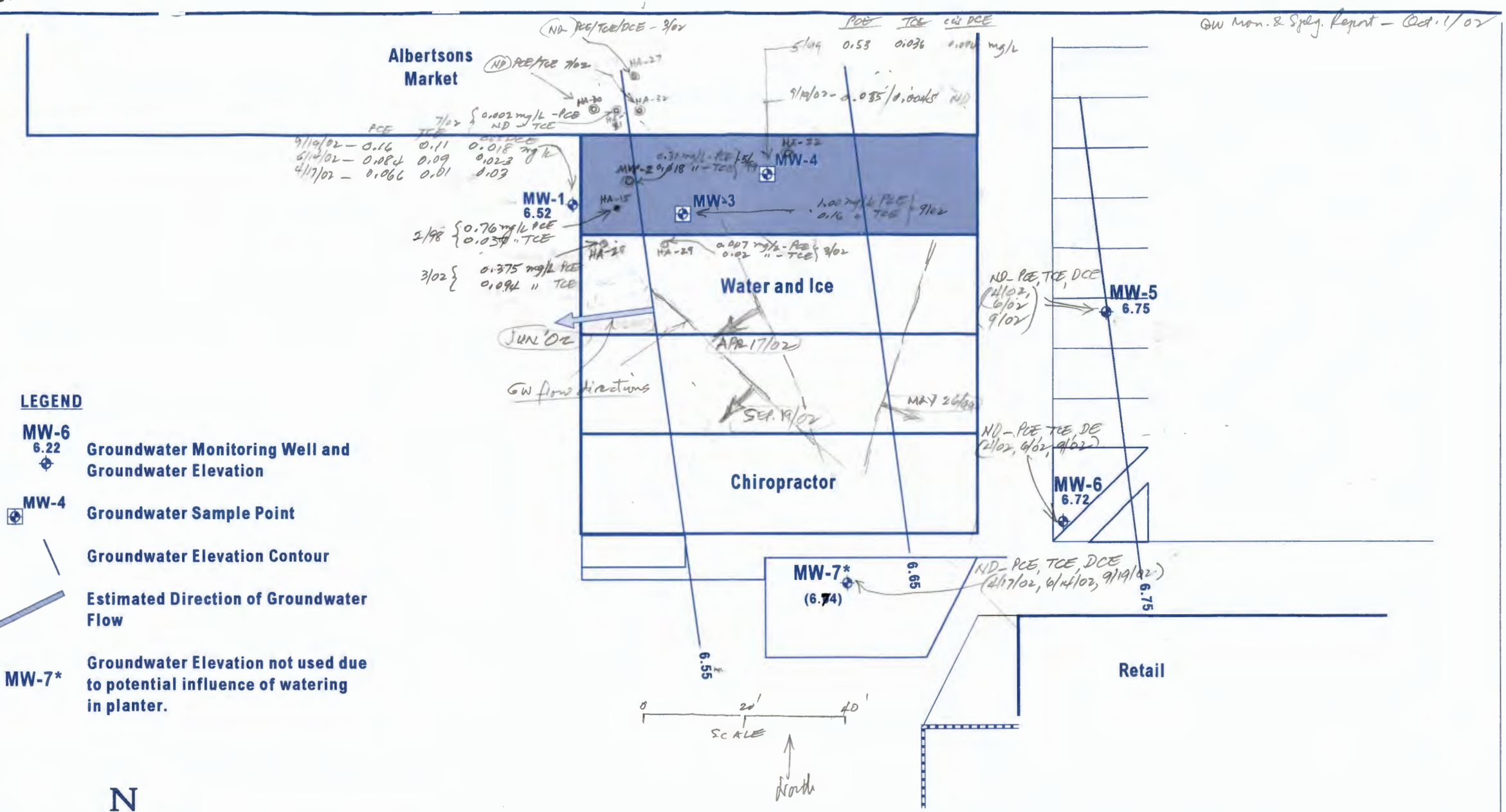
- HA-32 — Groundwater Sample Location (2002)
- New Fixtures - Tenant Improvement (2001)
- Excavation Area
  - A, C, and E -- Excavated to ±1.5 feet
  - D -- Excavated to ±4.5 feet
  - B -- Excavated to ±6.5 feet
- CF15CB — Confirmation Soil Sample Location
- ACF24EW — Confirmation Soil Sample Location with PCE Concentration below the Industrial PRG.
- CF21ENW
  - Indicates Sample Position (Wall or Bottom
  - Indicates Sample Position (North Wall, South Wall, East Wall, or West Wall
  - Indicates Area Designation
  - Indicates Sample Number
  - Indicates Confirmation Sample

REMEDIAL EXCAVATION MAP

CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Scale	AS SHOWN
Project No.	00-42-703-02
Date	9/02
Prepared By	KLF
Checked By	
Approved By	
Figure No.	2

Converse Consultants — Geotechnical Engineering and Applied Sciences



LEGEND

MW-6 6.22 — **Groundwater Monitoring Well and Groundwater Elevation**

MW-4 — **Groundwater Sample Point**

Groundwater Elevation Contour

Estimated Direction of Groundwater Flow

MW-7* — **Groundwater Elevation not used due to potential influence of watering in planter.**

N

0 20 40
SCALE IN FEET

ALL DATA = **GROUNDWATER ELEVATION CONTOUR MAP - 2ND QUARTER, 2002**

CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Project No.	AS SHOWN
Date	
Figure No.	00-42-703-02
Prepared By	KLF
Checked By	
Approved By	

Converse Consultants Geotechnical Engineering and Applied Sciences

2

Albertsons

Deli Cooler

Bakery Ovens

Boiler

Compressor

Dry Cleaning Machine Footprint

Rear Door

Parking Lot

Restroom

Column Footing

Water & Ice Shop

HA-30

HA-31

HA-32

CF1ANW

CF2ASW

CF3AEW

CF4AWW

CF5AB

CF6BNW

CF7BSW

CF8BEW

CF9BWW

CF10BB

CF11CNW

CF12SW

CF13CEW

CF14CWW

CF15CB

CF16DNW

CF17DSW

CF18DEW

CF19DWW

CF20DB

CF21ENW

CF22ESW

CF24EWW

ACF24EWW

CF25EB

Scale in Feet.

CROWN CLEANERS / Fountain Valley.

12/04/07

that no further remedial action be required for the 'Parcel 1—LPK & Fricke Fees' portion of the Aera Energy LLC Yorba Linda oil field property.

Luis Lodrigueza
Hazardous Waste SpecialistI

IC:aeraenergy/Parcel1:LPK&Frickeclosure\lal.doc

OCHCA VAPOR DIFFUSION MODEL AND INCREASED CANCER RISK ASSESSMENT

Site: ExxonMobil AA = 31 ug/m^3 (3.1 E-02 mg/m^3)		Revised 7/97	
Site contaminant: cis-1,2-DCE [0.165 mg/kg @ 1' bg)	12/30/02		
Staff: Lodrigueza	Run #		

SOIL PORE WATER

$C_{sg} = C_t / M_{wet} * H$

(Note: When multiple soil layers are used in the flux calculation, be sure that the soil characteristic values that are used below are from the layer in which the contaminant is located.)

Variables	Units	Inputs	Outputs
(C_t) contaminant concentration in soil **(IF NOT USING THE SOIL PORE WATER COMPONENT, INPUT 0)**	mg/kg	0.17	
(M_{wet}) calculated wet weight soil moisture content = M_{dry} / 1 + M_{dry}	gram/gram		2.19E-01
M_{wet} (site specific data) **(INPUT 0 IF NOT USING)**	gram/gram	0.00	
(H) Henry's Law constant	Dimensionless	0.27	
(M_{dry}) calculated soil moisture by dry weight = soil moisture by volume (P_w) / bulk density (B_d)	gram/gram		2.80E-01
M_{dry} (site specific data) **(INPUT 0 IF NOT USING)**	gram/gram	0.00	
(P_w) soil moisture by volume (Use reference for default value) (Note: 1 cm^3 water = 1 gram water)	cm^3/cm^3	0.387	
(Bd) bulk density = particle density (Pd) - [Pd * total porosity (Pt)]	g/cm^3		1.38E+00
(Pd) particle density (Use 2.65 as default value)	g/cm^3	2.65	
(Pt) total porosity (Use reference for default values)	cm^3/cm^3	0.479	
calculated soil gas level	mg/l		2.03E-01
calculated soil gas level (unit conversion)	mg/cm^3		2.03E-04

DISSOLVED IN GROUNDWATER

$Csg = Cw * H$

Variables	Units	Inputs	Outputs
(Cw) concentration in groundwater **(IF NOT USING DISSOLVED IN GROUNDWATER COMPONENT, INPUT 0)**	ppm (mg/l)	0	
(H) Henry's Law constant	dimensionless	0.225	
calculated soil gas level	mg/cm^3		0.00E+00

DIRECT MEASUREMENT OF SOIL GAS

Variables	Units	Inputs	Outputs
(Csg) contaminant soil gas concentration **(IF NOT USING DIRECT MEASUREMENT COMPONENT, INPUT 0)**	mg/m^3	0.00	
spreadsheet unit conversion to mg/cm^3	mg/cm^3		0.00E+00

LIQUID PHASE CONTAMINANT

Csg = VP * MW * MF / R * T

Variables	Units	Inputs	Outputs
(VP) vapor pressure at 20° C **(IF NOT USING THE FREE PRODUCT COMPONENT, INPUT 0)**	atm	0.00	
(MW) molecular weight (be sure to convert g to mg)	mg/mole	78000	
(MF) mole fraction	dimensionless	0.03	
(R) universal gas constant	cc-atm/mole-°k	8.21E+01	
(T) absolute temperature	°K	293	
calculated soil gas level	mg/cm^3		0.00E+00

FLUX

F = Csg / {(Lv1 / Deff-v1) + (Lv2 / Deff-v2) + ... (Lvn / Deff-vn) + (if dissolved in groundwater) [(Lfz / Deff-fz)+(Lcf / Deff-cf)]}

NOTE: If your site modeling includes both indoor and outdoor flux, and flux for outdoors (Fo) is expected to differ from indoor flux (Fi), first calculate outdoor flux and enter results in Outdoor Air Component, then return and calculate flux for use in indoor air calculation.

Variables	Units	Inputs	Outputs
(Csg) soil gas level (Note: spreadsheet selected the lowest non-zero Csg from above for use)	mg/cm^3		2.03E-04
(Lv1) vertical length of 1st soil layer between source contamination and surface when modeling in the vadose zone, or vertical lenght of 1st soil layer between the top of capillary zone and the surfure when modeling dissolved in groundwater	cm	30.5	
(Lv2) vertical length of 2nd vadose zone layer modeled above source contamination or capillary zone **(IF ONLY ONE LAYER IS CONSIDERED, INPUT 0)**	cm	0	
(Lv3) vertical length of 3rd vadose zone layer modeled above source contamination or capillary zone **(IF ONLY ONE OR TWO LAYERS ARE CONSIDERED, INPUT 0)**	cm	0	
(Deff-v1) effective diffusion coefficient vadose zone layer 1 = D^air * Pa-v1^3.33 / Pt-v1^2	cm^2/sec		1.22E-04
(D^air) diffusion coefficient in air (use reference for default)	cm^2/sec	0.079	
(Pa-v1) air filled porosity vadose zone layer 1 = Pt-v1 - Pw-v1	dimensionless		0.092
(Pt-v1) total porosity vadose zone layer 1 (use reference for default)	cm^3/cm^3	0.479	
(Pw-v1) soil moisture by volume vadose zone layer 1 (use reference for default value)	cm^3/cm^3	0.387	
(Deff-v2) effective diffusion coefficient vadose layer 2 = D^air * Pa-v2^3.33 / Pt-v2^2	cm^2/sec		0.00E+00
(Pa-v2) air filled porosity vadose zone layer 2 = Pt-v2 - Pw-v2	dimensionless		0.000
(Pt-v2) total porosity vadose zone layer 2 (use reference for default value) **(IF ONLY ONE SOIL LAYER IS CONSIDERED, INPUT 1.)**	dimensionless	1	
(Pw-v2) soil moisture by volume vadose zone layer 2 (Use reference for default value) **(IF ONLY ONE SOIL LAYER IS CONSIDERED, INPUT 1.)**	cm^3/cm^3	1	
(Deff-v3) effective diffusion coefficient vadose layer 3 = D^air * Pa-v3^3.33 / Pt-v3^2	cm^2/sec		0.00E+00
(Pa-v3) air filled porosity vadose zone layer 3 = Pt-v3 - Pw-v3	dimensionless		0.000
(Pt-v3) total porosity vadose zone layer 3 (use reference for default value) **(IF ONLY ONE OR TWO LAYERS ARE TO BE CONSIDERED, INPUT 1)**	dimensionless	1	
(Pw-v3) soil moisture by volume, vadose zone layer 3 (use reference for default value) **(IF ONLY ONE OR TWO LAYERS ARE TO BE CONSIDERED, INPUT 1)**	cm^3/cm^3	1	

(Lcz) vertical length of capillary zone (use reference for default value) **(INPUT 0 IF NOT MODELING DISSOLVED IN GROUNDWATER)**	cm	0	
(Lfz) vertical lenght of funicular zone (see references for default value) **(INPUT 0 IF NOT MODELING DISSOLVED IN GROUNDWATER)**	cm		
(Lcf) vertical length of capillary fringe = Lcz - Lfz	cm		0
(Deff-fz) effective diffusion coefficient through funicular zone = D^air * (Pa-fz^3.33 / Pt-fz^2) + D^water * (1/H) * (Pw-fz^3.33 / Pt-fz^2)	cm^2/sec		0.00E+00
(D^water) diffusion coefficient in water (chemical specific)	cm^2/sec	1.02E-05	
(H) Henry's Law constant (chemical specific)	dimensionless	0.201	
(Pa-fz) volumetric air content in funicular zone soils = Pt-fz - Pw-fz	dimensionless		0.357
(Pt-fz) total porosity of funicular zone (see reference for default value) **(INPUT 1 IF MODELING OTHER THAN DISSOLVED IN GROUNDWATER)**	dimensionless	1	
(Pw-fz) volumetric water content in funicular zone = (Pw-v1+ Pw-cf) / 2	cm^3/cm^3		0.644
(Deff-cf) effective diffusion coefficient through capillary fringe = D^air * (Pa-cf^3.33 / Pt-cf^2) + D^water * (1/H) * (Pw-cf^3.33 / Pt-cf^2)	cm^2/sec		0.00E+00
(Pa-cf) volumetric air content in capillary fringe soils = Pt-cf - Pw-cf	cm^3/cm^3		0.100
(Pt-cf) total porosity of capillary fringe soil	cm^3/cm^3		1.000
(Pw-cf) volumetric water content in capillary fringe soil = 0.90 * Pt-cf	cm^3/cm^3		0.900
(F) flux (includes converion to m^2)	mg/sec-m^2		8.14E-06

OUTDOOR AIR COMPONENT

Co = (Fo * Ld) / (u * h)

*** See note in Flux Section regarding Fo**

Variables	Units	Inputs	Outputs
ENTER 0 IF OUTDOOR AIR COMPONENT IS NOT TO BE USED; ENTER 1 IF OUTDOOR COMPONENT IS USED AND Fo = Fi; OR IF OUTDOOR COMPONENT IS USED AND Fo ≠ Fi, ENTER THE CALCULATED Fo.	mg/sec-m^2	0.00E+00	
ENTER 1 IF Fo ≠ FI (where due to different contaminant concentrations,different soil types or different soil layer lengths, a different flux value is calculated for an area adjacent to building than was calculated for the area below building) ENTER 0 IF Fo = Fi	mg/sec-m^2	0	8.14E-06
(Ld) down wind length of contamination	m	1.524	
(u) wind speed	m/sec	0.0138833	
(h) height of ambient air mixing zone (e.g. height of doorway or ventilation system intake)	m	2.44	
(Co) concentration in outdoor air	mg/m^3		0.00E+00

CONCENTRATION IN INDOOR AIR

Ci = (Co) + (b * Fu * A) / (V * E)

Variables	Units	Inputs	Outputs
(Co) concentration. in outdoor air	mg/m^3		0.00E+00
(b) attenuation factor. **(INPUT 0 IF CALCULATING Co ONLY)**	dimensionless	0.001	
(Fu) flux for area under building	mg/sec-m^2		8.14E-06
(A) area through which flux occurs under building	m^2	8.9	
(V) volume of building **(INPUT 1 IF CALCULATING Fo ONLY)**	m^3	442	
(E) exchange rate **(INPUT 1 IF CALCULATING Fo ONLY)**	bldg. vol./sec	1.39E-04	
(Ci) total indoor air contaminant concentration	mg/m^3		1.18E-06

VAPOR RISK RESULT & SUPPLEMENTAL

~~Albertsons~~ — Conc: PCE 0.5 - 5' —
TCE — 0.5' - 5'
5' — 11'

Assumed Flux Area — 60' x 20' = 1200 ft²

Bldg. Vol. = 120' x 380' x 20' = 912,000 ft³ = 25,8

Soil Vol: 1200 ft² x 4.5' = 5400 ft³ = 152,8 m³

GW data max — 0.002 mg/L — ND TCE

~~Water & Ice Shop~~

Flux Area: 15' x 10' = 450 ft²

Bldg. Vol. = 20' x 78' = 1560 ft² x 10' =

0.5 - 5' (4.5') — ~~max~~ PCE 1.08 mg/
N TCE 0.305 mg

5' — 11' (6') — ~~max~~ PCE 0.665 mg
" TCE — 0.09 " "

~~Groundwater~~ max PCE — 0.375 mg/L
TCE — 0.09 mg/L — N
Compa
between Gr
relatively
and Ice — the

Luis Lodrigueza
Hazardous Waste Specialist

OCHCA MASS-BASED CONTAMINANT AND INCREASED CANCER RISK ASSESSMENT

Site: Water & Ice	Revised 8/00		
Site contaminant: PCE	5/13/03		
Staff: Lodrigueza	Run #		

TOTAL CONTAMINANT MASS UNDER BUILDING

Cmass-u = Cmass-1u + Cmass-2u + Cmass-3u + ...(Cmass-nu)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-u) total mass of contaminant under building = (Cmass-1u) mass of contaminant in area 1u under building + (Cmass-2u) mass of contaminant in area 2u under building + (Cmass-3u) mass of contaminant in area 3u under building	mg		1.53E+05
(Cmass-1u) mass of contaminant in area 1u = (Ct-1u) concentration of contaminant in area 1u * (Smass-1u) mass of soil in area 1u	mg		8.55E+04
(Ct-1u) concentration of contaminant in area 1u (IF CONTAMINANT MASS UNDER THE BUILDING IS NOT TO BE CALCULATED, **INPUT 0**)	mg/kg	1.08	
(Smass-1u) mass of soil in area 1 = (Bd-1u) bulk density of soil in area 1u * (Vs-1u) vol. of soil in area 1u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		7.92E+04
(Vs-1u) volume of soil in area 1u	m^3	57.33	
(Bd-1u) bulk density of area 1u = (Pd-1u) particle density of area 1u - [Pd-1u * (Pt-1u) total porosity of area 1u]	g/cm^3		1.38
(Pd-1u) particle density of area 1u (use 2.65 as default)	g/cm^3	2.65	
(Pt-1u) total porosity of area 1u	cm^3/cm^3	0.479	
(Cmass-2u) mass of contaminant in area 2u = (Ct-2u) concentration of contaminant in area 2u * (Smass-2u) mass of soil in area 2u	mg		6.72E+04
(Ct-2u) concentration of contaminant in area 2u (**INPUT 0 IF ONLY ONE AREA OF CONTAMINANT MASS UNDER THE BUILDING IS TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE OF THE BUILDING FOOTPRINT IS TO BE CALCULATED**)	mg/kg	0.665	
(Smass-2u) mass of soil in area 2u = (Bd-2u) bulk density of soil in area 2u * (Vs-2u) vol. of soil in area 2u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		1.01E+05
(Vs-2u) soil volume of area 2u	m^3	76.44	
(Bd-2u) bulk density of area 2u = (Pd-2u) particle density of area 2u - [Pd-2u * (Pt-2u) total porosity of area 2u]	g/cm^3		1.32
(Pd-2u) particle density of area 2u (use 2.65 as default)	g/cm^3	2.65	
(Pt-2u) total porosity of area 2u	cm^3/cm^3	0.501	
(Cmass-3u) mass of contaminant in area 3u = (Ct-3u) concentration of contaminant in area 3u * (Smass-3u) mass of soil in area 3u	mg		0.00E+00
(Ct-3u) concentration of contaminant in area 3u (**INPUT 0 IF ONLY TWO AREAS OF SOIL MASS UNDER THE BUILDING ARE TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS TO BE CALCULATED**)	mg/kg		

(Smass-3u) mass of soil in area 3 = (Bd-3u) bulk density of soil in area 3u * (Vs-3u) volume of soil in area 3u * unit conversion factor (10^6 cm / 1 m^3 * 1 kg / 10^3 g)	kg		0.00E+00
(Vs-3u) soil volume of area 3u	m^3		
(Bd-3u) bulk density of area 3u = (Pd-3u) particle density of area 3u - [Pd-3u * (Pt-3u) total porosity of area 3u]	g/cm^3		0.00
(Pd-3u) particle density of area 3u (use 2.65 as default)	g/cm^3		
(Pt-3u) total porosity of area 3u	cm^3/cm^3		

TOTAL CONTAMINANT MASS OUTSIDE OF BUILDING FOOTPRINT

Cmass-o = Cmass-1o + Cmass-2o + Cmass-3o + ...(Cmass-no)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-o) total mass of contaminant outside building footprint = (Cmass-1o) mass of contaminant in area 1o outside building + (Cmass-2o) mass in area 2o outside building + (Cmass-3o) mass in area 3o outside building.	mg		0.00E+00
(Cmass-1o) mass of contaminant in area 1o = (Ct-1o) concentration of contaminant in area 1o * (Smass-1o) mass of soil in area 1o	mg		0.00E+00
(Ct-1o) concentration of contaminant in area 1o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT TO BE CALCULATED, INPUT 0)	mg/kg		
(Smass-1o) mass of soil in area 3o = (Bd-1o) bulk density of soil in area 1o * (Vs-1o) volume of soil in area 1o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-1o) volume of soil in area 1o	m^3		
(Bd-1o) bulk density of area 1o = (Pd-1o) particle density of area 1o - [Pd-1o * (Pt-1o) total porosity of area 1o]	g/cm^3		2.65
(Pd-1o) particle density of area 1o (use 2.65 as default)	g/cm^3	2.65	
(Pt-1o) total porosity of area 1o	cm^3/cm^3	0	
(Cmass-2o) mass of contaminant in area 2o = (Ct-2o) concentration of contaminant in area 2o * (Smass-2o) mass of soil in area 2o	mg		0.00E+00
(Ct-2o) concentration of contaminant in area 2o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF ONLY THE CONTAMINANT MASS FOR OUTSIDE AREA 1 IS TO BE CALCULATED, INPUT 0)	mg/kg	0	
(Smass-2o) mass of soil in area 2o = (Bd-2o) bulk density of soil in area 2o * (Vs-2o) volume of soil in area 2o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-2o) volume of soil in area 2o	m^3	0	
(Bd-2o) bulk density of area 2o = (Pd-2o) particle density of area 2o - [Pd-2o * (Pt-2o) total porosity of area 2o]	g/cm^3		2.65
(Pd-2o) particle density of area 2o (use 2.65 as default)	g/cm^3	2.65	
(Pt-2uw) total porosity of area 2uw	cm^3/cm^3	0	
(Cmass-3o) mass of contaminant in area 3o = (Ct-3o) concentration of contaminant in area 3o * (Smass-3o) mass of soil in area 3o	mg		0.00E+00

(Ct-3o) concentration of contaminant in area 3o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF THE CONTAMINANT MASS FOR ONLY TWO OUTSIDE AREAS IS TO BE CALCULATED, **INPUT 0**)	mg/kg	0	
(Smass-3o) mass of soil in area 3o = (Bd-3o) bulk density of soil in area 3o * (Vs-3o) volume of soil in area 3o * unit conversion factor (10^6 cm^3/1m^3 * 1kg/10^3 g)	kg		0.00E+00
(Vs-3o) volume of soil in area 3o	m^3	0	
(Bd-3o) bulk density of area 3o = (Pd-3o) particle density of area 3o - [Pd-3o * (Pt-3o) total porosity of area 3o]	g/cm^3		2.65
(Pd-3o) particle density of area 3o (use 2.65 as default)	g/cm^3	2.65	
(Pt-3o) total porosity of area 3o	cm^3/cm^3	0	
INPUT 1, IF MODELING A CONTAMINANT, DIFFUSING FROM AN OUTSIDE CONTAMINANT SOURCE, BEING DIRECTED BELOW A BUILDING BY CONTINUOUS PAVING; INPUT 0, IF MODELING A CONTAMINANT SOURCE DIFFUSING FROM UNDER A BUILDING AND/OR AIRBORNE CONTAMINATION ENTERING A BUILDING VIA A SOIL SOURCE LOCATED OUTSIDE THE BUILDING FOOTPRINT.	dimensionless	0	

INTAKE (INHALATION) OF VAPOR PHASE

Where: Intake = {[(Cmass-o / u * h * W) + (Cmass-u * b / V * E)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

Variables	Units	Inputs	Outputs
(Cmass-o) mass of contaminant in soil located outside building footprint.	mg		0.00E+00
(u) mean wind speed	m/sec	2.25	1.00
(h) height of ambient air mixing zone (e.g. height of window or ventilation system intake)	m	3	1
(W) width of the source area outside building	m	6	1
(Cmass-u) total mass of contaminant under building	mg		1.53E+05
(b) attenuation factor	dimensionless	0.001	
(V) volume of building	m^3	442	442
(E) exchange rate	bldg. vol./sec	5.56E-04	5.56E-04
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		2.30E-08

INTAKE (INHALATION) OF VAPOR PHASE

Where: Intake = {[(1/2 Cmass-o * b / V * E * W)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

(Cmass-d) mass of contamination directed under building by continuous surface paving from contaminated soil located outside building footprint.	mg		0.00E+00
(b) attenuation factor	dimensionless		
(V) volume of building	m^3		1
(E) exchange rate	bldg. vol./sec		1.00E+00
(W) width of the source area outside building	m	60	1
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		0.00E+00

EXCESS LIFETIME RISK CALCULATION

EXCESS LIFETIME RISK = SLOPE FACTOR * UNITS OF EXPOSURE

Variables	Units	Inputs	Outputs
carcinogenic slope factor (potency factor)	1/mg/kg/day	0.021	
units of exposure (from intake calculation above)	mg/kg/day		2.30E-08
excess lifetime cancer risk	dimensionless		4.83E-10

OCHCA MASS-BASED CONTAMINANT AND INCREASED CANCER RISK ASSESSMENT

Site: Albertson's	Revised 8/00		
Site contaminant: PCE	5/13/03		
Staff: Lodrigueza	Run #		

TOTAL CONTAMINANT MASS UNDER BUILDING

Cmass-u = Cmass-1u + Cmass-2u + Cmass-3u + ...(Cmass-nu)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-u) total mass of contaminant under building = (Cmass-1u) mass of contaminant in area 1u under building + (Cmass-2u) mass of contaminant in area 2u under building + (Cmass-3u) mass of contaminant in area 3u under building	mg		1.99E+06
(Cmass-1u) mass of contaminant in area 1u = (Ct-1u) concentration of contaminant in area 1u * (Smass-1u) mass of soil in area 1u	mg		1.42E+06
(Ct-1u) concentration of contaminant in area 1u (IF CONTAMINANT MASS UNDER THE BUILDING IS NOT TO BE CALCULATED, INPUT 0)	mg/kg	6.75	
(Smass-1u) mass of soil in area 1 = (Bd-1u) bulk density of soil in area 1u * (Vs-1u) vol. of soil in area 1u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		2.11E+05
(Vs-1u) volume of soil in area 1u	m^3	152.8	
(Bd-1u) bulk density of area 1u = (Pd-1u) particle density of area 1u - [Pd-1u * (Pt-1u) total porosity of area 1u]	g/cm^3		1.38
(Pd-1u) particle density of area 1u (use 2.65 as default)	g/cm^3	2.65	
(Pt-1u) total porosity of area 1u	cm^3/cm^3	0.479	
(Cmass-2u) mass of contaminant in area 2u = (Ct-2u) concentration of contaminant in area 2u * (Smass-2u) mass of soil in area 2u	mg		5.70E+05
(Ct-2u) concentration of contaminant in area 2u (INPUT 0 IF ONLY ONE AREA OF CONTAMINANT MASS UNDER THE BUILDING IS TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE OF THE BUILDING FOOTPRINT IS TO BE CALCULATED)	mg/kg	2.82	
(Smass-2u) mass of soil in area 2u = (Bd-2u) bulk density of soil in area 2u * (Vs-2u) vol. of soil in area 2u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		2.02E+05
(Vs-2u) soil volume of area 2u	m^3	152.8	
(Bd-2u) bulk density of area 2u = (Pd-2u) particle density of area 2u - [Pd-2u * (Pt-2u) total porosity of area 2u]	g/cm^3		1.32
(Pd-2u) particle density of area 2u (use 2.65 as default)	g/cm^3	2.65	
(Pt-2u) total porosity of area 2u	cm^3/cm^3	0.501	
(Cmass-3u) mass of contaminant in area 3u = (Ct-3u) concentration of contaminant in area 3u * (Smass-3u) mass of soil in area 3u	mg		0.00E+00
(Ct-3u) concentration of contaminant in area 3u (INPUT 0 IF ONLY TWO AREAS OF SOIL MASS UNDER THE BUILDING ARE TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS TO BE CALCULATED)	mg/kg		

(Smass-3u) mass of soil in area 3 = (Bd-3u) bulk density of soil in area 3u * (Vs-3u) volume of soil in area 3u * unit conversion factor (10^6 cm / 1 m^3 * 1 kg / 10^3 g)	kg		0.00E+00
(Vs-3u) soil volume of area 3u	m^3		
(Bd-3u) bulk density of area 3u = (Pd-3u) particle density of area 3u - [Pd-3u * (Pt-3u) total porosity of area 3u]	g/cm^3		0.00
(Pd-3u) particle density of area 3u (use 2.65 as default)	g/cm^3		
(Pt-3u) total porosity of area 3u	cm^3/cm^3		

TOTAL CONTAMINANT MASS OUTSIDE OF BUILDING FOOTPRINT

Cmass-o = Cmass-1o + Cmass-2o + Cmass-3o + ...(Cmass-no)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-o) total mass of contaminant outside building footprint = (Cmass-1o) mass of contaminant in area 1o outside building + (Cmass-2o) mass in area 2o outside building + (Cmass-3o) mass in area 3o outside building.	mg		0.00E+00
(Cmass-1o) mass of contaminant in area 1o = (Ct-1o) concentration of contaminant in area 1o * (Smass-1o) mass of soil in area 1o	mg		0.00E+00
(Ct-1o) concentration of contaminant in area 1o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT TO BE CALCULATED, INPUT 0)	mg/kg		
(Smass-1o) mass of soil in area 3o = (Bd-1o) bulk density of soil in area 1o * (Vs-1o) volume of soil in area 1o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-1o) volume of soil in area 1o	m^3		
(Bd-1o) bulk density of area 1o = (Pd-1o) particle density of area 1o - [Pd-1o * (Pt-1o) total porosity of area 1o]	g/cm^3		2.65
(Pd-1o) particle density of area 1o (use 2.65 as default)	g/cm^3	2.65	
(Pt-1o) total porosity of area 1o	cm^3/cm^3	0	
(Cmass-2o) mass of contaminant in area 2o = (Ct-2o) concentration of contaminant in area 2o * (Smass-2o) mass of soil in area 2o	mg		0.00E+00
(Ct-2o) concentration of contaminant in area 2o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF ONLY THE CONTAMINANT MASS FOR OUTSIDE AREA 1 IS TO BE CALCULATED, INPUT 0)	mg/kg	0	
(Smass-2o) mass of soil in area 2o = (Bd-2o) bulk density of soil in area 2o * (Vs-2o) volume of soil in area 2o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-2o) volume of soil in area 2o	m^3	0	
(Bd-2o) bulk density of area 2o = (Pd-2o) particle density of area 2o - [Pd-2o * (Pt-2o) total porosity of area 2o]	g/cm^3		2.65
(Pd-2o) particle density of area 2o (use 2.65 as default)	g/cm^3	2.65	
(Pt-2uw) total porosity of area 2uw	cm^3/cm^3	0	
(Cmass-3o) mass of contaminant in area 3o = (Ct-3o) concentration of contaminant in area 3o * (Smass-3o) mass of soil in area 3o	mg		0.00E+00

(Ct-3o) concentration of contaminant in area 3o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF THE CONTAMINANT MASS FOR ONLY TWO OUTSIDE AREAS IS TO BE CALCULATED, **INPUT 0**)	mg/kg	0	
(Smass-3o) mass of soil in area 3o = (Bd-3o) bulk density of soil in area 3o * (Vs-3o) volume of soil in area 3o * unit conversion factor (10^6 cm^3/1m^3 * 1kg/10^3 g)	kg		0.00E+00
(Vs-3o) volume of soil in area 3o	m^3	0	
(Bd-3o) bulk density of area 3o = (Pd-3o) particle density of area 3o - [Pd-3o * (Pt-3o) total porosity of area 3o]	g/cm^3		2.65
(Pd-3o) particle density of area 3o (use 2.65 as default)	g/cm^3	2.65	
(Pt-3o) total porosity of area 3o	cm^3/cm^3	0	
INPUT 1, IF MODELING A CONTAMINANT, DIFFUSING FROM AN OUTSIDE CONTAMINANT SOURCE, BEING DIRECTED BELOW A BUILDING BY CONTINUOUS PAVING; INPUT 0, IF MODELING A CONTAMINANT SOURCE DIFFUSING FROM UNDER A BUILDING AND/OR AIRBORNE CONTAMINATION ENTERING A BUILDING VIA A SOIL SOURCE LOCATED OUTSIDE THE BUILDING FOOTPRINT.	dimensionless	0	

INTAKE (INHALATION) OF VAPOR PHASE

Where: Intake = {[(Cmass-o / u * h * W) + (Cmass-u * b / V * E)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

Variables	Units	Inputs	Outputs
(Cmass-o) mass of contaminant in soil located outside building footprint.	mg		0.00E+00
(u) mean wind speed	m/sec	2.25	1.00
(h) height of ambient air mixing zone (e.g. height of window or ventilation system intake)	m	3	1
(W) width of the source area outside building	m	6	1
(Cmass-u) total mass of contaminant under building	mg		1.99E+06
(b) attenuation factor	dimensionless	0.001	
(V) volume of building	m^3	25821	25821
(E) exchange rate	bldg. vol./sec	5.56E-04	5.56E-04
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		5.14E-09

INTAKE (INHALATION) OF VAPOR PHASE

Where: Intake = {[(1/2 Cmass-o * b / V * E * W)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

(Cmass-d) mass of contamination directed under building by continuous surface paving from contaminated soil located outside building footprint.	mg		0.00E+00
(b) attenuation factor	dimensionless		
(V) volume of building	m^3		1
(E) exchange rate	bldg. vol./sec		1.00E+00
(W) width of the source area outside building	m	60	1
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		0.00E+00

EXCESS LIFETIME RISK CALCULATION

EXCESS LIFETIME RISK = SL0PE FACTOR * UNITS OF EXPOSURE

Variables	Units	Inputs	Outputs
carcinogenic slope factor (potency factor)	1/mg/kg/day	0.021	
units of exposure (from intake calculation above)	mg/kg/day		5.14E-09
excess lifetime cancer risk	dimensionless		1.08E-10

OCHCA MASS-BASED CONTAMINANT AND INCREASED CANCER RISK ASSESSMENT

Site: Albertson's		Revised 8/00	
Site contaminant: TCE	5/13/03		
Staff: Lodrigueza	Run #		

TOTAL CONTAMINANT MASS UNDER BUILDING

Cmass-u = Cmass-1u + Cmass-2u + Cmass-3u + ...(Cmass-nu)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-u) total mass of contaminant under building = (Cmass-1u) mass of contaminant in area 1u under building + (Cmass-2u) mass of contaminant in area 2u under building + (Cmass-3u) mass of contaminant in area 3u under building	mg		2.78E+04
(Cmass-1u) mass of contaminant in area 1u = (Ct-1u) concentration of contaminant in area 1u * (Smass-1u) mass of soil in area 1u	mg		2.30E+04
(Ct-1u) concentration of contaminant in area 1u **(IF CONTAMINANT MASS UNDER THE BUILDING IS NOT TO BE CALCULATED, INPUT 0)**	mg/kg	0.109	
(Smass-1u) mass of soil in area 1 = (Bd-1u) bulk density of soil in area 1u * (Vs-1u) vol. of soil in area 1u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		2.11E+05
(Vs-1u) volume of soil in area 1u	m^3	152.8	
(Bd-1u) bulk density of area 1u = (Pd-1u) particle density of area 1u - [Pd-1u * (Pt-1u) total porosity of area 1u]	g/cm^3		1.38
(Pd-1u) particle density of area 1u (use 2.65 as default)	g/cm^3	2.65	
(Pt-1u) total porosity of area 1u	cm^3/cm^3	0.479	
(Cmass-2u) mass of contaminant in area 2u = (Ct-2u) concentration of contaminant in area 2u * (Smass-2u) mass of soil in area 2u	mg		4.85E+03
(Ct-2u) concentration of contaminant in area 2u **(INPUT 0 IF ONLY ONE AREA OF CONTAMINANT MASS UNDER THE BUILDING IS TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE OF THE BUILDING FOOTPRINT IS TO BE CALCULATED)**	mg/kg	0.024	
(Smass-2u) mass of soil in area 2u = (Bd-2u) bulk density of soil in area 2u * (Vs-2u) vol. of soil in area 2u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		2.02E+05
(Vs-2u) soil volume of area 2u	m^3	152.8	
(Bd-2u) bulk density of area 2u = (Pd-2u) particle density of area 2u - [Pd-2u * (Pt-2u) total porosity of area 2u]	g/cm^3		1.32
(Pd-2u) particle density of area 2u (use 2.65 as default)	g/cm^3	2.65	
(Pt-2u) total porosity of area 2u	cm^3/cm^3	0.501	
(Cmass-3u) mass of contaminant in area 3u = (Ct-3u) concentration of contaminant in area 3u * (Smass-3u) mass of soil in area 3u	mg		0.00E+00
(Ct-3u) concentration of contaminant in area 3u **(INPUT 0 IF ONLY TWO AREAS OF SOIL MASS UNDER THE BUILDING ARE TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS TO BE CALCULATED)**	mg/kg		

(Smass-3u) mass of soil in area 3 = (Bd-3u) bulk density of soil in area 3u * (Vs-3u) volume of soil in area 3u * unit conversion factor (10^6 cm / 1 m^3 * 1 kg / 10^3 g)	kg		0.00E+00
(Vs-3u) soil volume of area 3u	m^3		
(Bd-3u) bulk density of area 3u = (Pd-3u) particle density of area 3u - [Pd-3u * (Pt-3u) total porosity of area 3u]	g/cm^3		2.65
(Pd-3u) particle density of area 3u (use 2.65 as default)	g/cm^3	2.65	
(Pt-3u) total porosity of area 3u	cm^3/cm^3		

TOTAL CONTAMINANT MASS OUTSIDE OF BUILDING FOOTPRINT

Cmass-o = Cmass-1o + Cmass-2o + Cmass-3o + ...(Cmass-no)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-o) total mass of contaminant outside building footprint = (Cmass-1o) mass of contaminant in area 1o outside building + (Cmass-2o) mass in area 2o outside building + (Cmass-3o) mass in area 3o outside building.	mg		0.00E+00
(Cmass-1o) mass of contaminant in area 1o = (Ct-1o) concentration of contaminant in area 1o * (Smass-1o) mass of soil in area 1o	mg		0.00E+00
(Ct-1o) concentration of contaminant in area 1o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT TO BE CALCULATED, INPUT 0)	mg/kg	0	
(Smass-1o) mass of soil in area 3o = (Bd-1o) bulk density of soil in area 1o * (Vs-1o) volume of soil in area 1o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-1o) volume of soil in area 1o	m^3	0	
(Bd-1o) bulk density of area 1o = (Pd-1o) particle density of area 1o - [Pd-1o * (Pt-1o) total porosity of area 1o]	g/cm^3		2.65
(Pd-1o) particle density of area 1o (use 2.65 as default)	g/cm^3	2.65	
(Pt-1o) total porosity of area 1o	cm^3/cm^3	0	
(Cmass-2o) mass of contaminant in area 2o = (Ct-2o) concentration of contaminant in area 2o * (Smass-2o) mass of soil in area 2o	mg		0.00E+00
(Ct-2o) concentration of contaminant in area 2o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF ONLY THE CONTAMINANT MASS FOR OUTSIDE AREA 1 IS TO BE CALCULATED, INPUT 0)	mg/kg	0	
(Smass-2o) mass of soil in area 2o = (Bd-2o) bulk density of soil in area 2o * (Vs-2o) volume of soil in area 2o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-2o) volume of soil in area 2o	m^3	0	
(Bd-2o) bulk density of area 2o = (Pd-2o) particle density of area 2o - [Pd-2o * (Pt-2o) total porosity of area 2o]	g/cm^3		2.65
(Pd-2o) particle density of area 2o (use 2.65 as default)	g/cm^3	2.65	
(Pt-2uw) total porosity of area 2uw	cm^3/cm^3	0	
(Cmass-3o) mass of contaminant in area 3o = (Ct-3o) concentration of contaminant in area 3o * (Smass-3o) mass of soil in area 3o	mg		0.00E+00

(Ct-3o) concentration of contaminant in area 3o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF THE CONTAMINANT MASS FOR ONLY TWO OUTSIDE AREAS IS TO BE CALCULATED, **INPUT 0**)	mg/kg	0	
(Smass-3o) mass of soil in area 3o = (Bd-3o) bulk density of soil in area 3o * (Vs-3o) volume of soil in area 3o * unit conversion factor (10^6 cm^3/1m^3 * 1kg/10^3 g)	kg		0.00E+00
(Vs-3o) volume of soil in area 3o	m^3	0	
(Bd-3o) bulk density of area 3o = (Pd-3o) particle density of area 3o - [Pd-3o * (Pt-3o) total porosity of area 3o]	g/cm^3		2.65
(Pd-3o) particle density of area 3o (use 2.65 as default)	g/cm^3	2.65	
(Pt-3o) total porosity of area 3o	cm^3/cm^3	0	
INPUT 1, IF MODELING A CONTAMINANT, DIFFUSING FROM AN OUTSIDE CONTAMINANT SOURCE, BEING DIRECTED BELOW A BUILDING BY CONTINUOUS PAVING; INPUT 0, IF MODELING A CONTAMINANT SOURCE DIFFUSING FROM UNDER A BUILDING AND/OR AIRBORNE CONTAMINATION ENTERING A BUILDING VIA A SOIL SOURCE LOCATED OUTSIDE THE BUILDING FOOTPRINT.	dimensionless	0	

INTAKE (INHALATION) OF VAPOR PHASE

Where: Intake = {[(Cmass-o / u * h * W) + (Cmass-u * b / V * E)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

Variables	Units	Inputs	Outputs
(Cmass-o) mass of contaminant in soil located outside building footprint.	mg		0.00E+00
(u) mean wind speed	m/sec	2.25	1.00
(h) height of ambient air mixing zone (e.g. height of window or ventilation system intake)	m	3	1
(W) width of the source area outside building	m	6	1
(Cmass-u) total mass of contaminant under building	mg		2.78E+04
(b) attenuation factor	dimensionless	0.001	
(V) volume of building	m^3	25821	25821
(E) exchange rate	bldg. vol./sec	5.56E-04	5.56E-04
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		7.18E-11

INTAKE (INHALATION) OF VAPOR PHASE

Where: Intake = {[(1/2 Cmass-o * b / V * E * W)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

(Cmass-d) mass of contamination directed under building by continuous surface paving from contaminated soil located outside building footprint.	mg		0.00E+00
(b) attenuation factor	dimensionless		
(V) volume of building	m^3		1
(E) exchange rate	bldg. vol./sec	5.56E-04	1.00E+00
(W) width of the source area outside building	m	60	1
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		0.00E+00

EXCESS LIFETIME RISK CALCULATION

EXCESS LIFETIME RISK = SL0PE FACTOR * UNITS OF EXPOSURE

Variables	Units	Inputs	Outputs
carcinogenic slope factor (potency factor)	1/mg/kg/day	0.007	
units of exposure (from intake calculation above)	mg/kg/day		7.18E-11
excess lifetime cancer risk	dimensionless		5.02E-13

OCHCA MASS-BASED CONTAMINANT AND INCREASED CANCER RISK ASSESSMENT

Site: Water & Ice	Revised 8/00		
Site contaminant: TCE	5/13/03		
Staff: Lodrigueza	Run #		

TOTAL CONTAMINANT MASS UNDER BUILDING

Cmass-u = Cmass-1u + Cmass-2u + Cmass-3u + ...(Cmass-nu)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-u) total mass of contaminant under building = (Cmass-1u) mass of contaminant in area 1u under building + (Cmass-2u) mass of contaminant in area 2u under building + (Cmass-3u) mass of contaminant in area 3u under building	mg		3.84E+04
(Cmass-1u) mass of contaminant in area 1u = (Ct-1u) concentration of contaminant in area 1u * (Smass-1u) mass of soil in area 1u	mg		2.89E+04
(Ct-1u) concentration of contaminant in area 1u (IF CONTAMINANT MASS UNDER THE BUILDING IS NOT TO BE CALCULATED, **INPUT 0**)	mg/kg	0.365	
(Smass-1u) mass of soil in area 1 = (Bd-1u) bulk density of soil in area 1u * (Vs-1u) vol. of soil in area 1u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		7.92E+04
(Vs-1u) volume of soil in area 1u	m^3	57.33	
(Bd-1u) bulk density of area 1u = (Pd-1u) particle density of area 1u - [Pd-1u * (Pt-1u) total porosity of area 1u]	g/cm^3		1.38
(Pd-1u) particle density of area 1u (use 2.65 as default)	g/cm^3	2.65	
(Pt-1u) total porosity of area 1u	cm^3/cm^3	0.479	
(Cmass-2u) mass of contaminant in area 2u = (Ct-2u) concentration of contaminant in area 2u * (Smass-2u) mass of soil in area 2u	mg		9.50E+03
(Ct-2u) concentration of contaminant in area 2u (**INPUT 0** IF ONLY ONE AREA OF CONTAMINANT MASS UNDER THE BUILDING IS TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE OF THE BUILDING FOOTPRINT IS TO BE CALCULATED)	mg/kg	0.094	
(Smass-2u) mass of soil in area 2u = (Bd-2u) bulk density of soil in area 2u * (Vs-2u) vol. of soil in area 2u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		1.01E+05
(Vs-2u) soil volume of area 2u	m^3	76.44	
(Bd-2u) bulk density of area 2u = (Pd-2u) particle density of area 2u - [Pd-2u * (Pt-2u) total porosity of area 2u]	g/cm^3		1.32
(Pd-2u) particle density of area 2u (use 2.65 as default)	g/cm^3	2.65	
(Pt-2u) total porosity of area 2u	cm^3/cm^3	0.501	
(Cmass-3u) mass of contaminant in area 3u = (Ct-3u) concentration of contaminant in area 3u * (Smass-3u) mass of soil in area 3u	mg		0.00E+00
(Ct-3u) concentration of contaminant in area 3u (**INPUT 0** IF ONLY TWO AREAS OF SOIL MASS UNDER THE BUILDING ARE TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS TO BE CALCULATED)	mg/kg		

(Smass-3u) mass of soil in area 3 = (Bd-3u) bulk density of soil in area 3u * (Vs-3u) volume of soil in area 3u * unit conversion factor (10^6 cm / 1 m^3 * 1 kg / 10^3 g)	kg		0.00E+00
(Vs-3u) soil volume of area 3u	m^3		
(Bd-3u) bulk density of area 3u = (Pd-3u) particle density of area 3u - [Pd-3u * (Pt-3u) total porosity of area 3u]	g/cm^3		2.65
(Pd-3u) particle density of area 3u (use 2.65 as default)	g/cm^3	2.65	
(Pt-3u) total porosity of area 3u	cm^3/cm^3		

TOTAL CONTAMINANT MASS OUTSIDE OF BUILDING FOOTPRINT

Cmass-o = Cmass-1o + Cmass-2o + Cmass-3o + ...(Cmass-no)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-o) total mass of contaminant outside building footprint = (Cmass-1o) mass of contaminant in area 1o outside building + (Cmass-2o) mass in area 2o outside building + (Cmass-3o) mass in area 3o outside building.	mg		0.00E+00
(Cmass-1o) mass of contaminant in area 1o = (Ct-1o) concentration of contaminant in area 1o * (Smass-1o) mass of soil in area 1o	mg		0.00E+00
(Ct-1o) concentration of contaminant in area 1o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT TO BE CALCULATED, INPUT 0)	mg/kg	0	
(Smass-1o) mass of soil in area 3o = (Bd-1o) bulk density of soil in area 1o * (Vs-1o) volume of soil in area 1o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-1o) volume of soil in area 1o	m^3	0	
(Bd-1o) bulk density of area 1o = (Pd-1o) particle density of area 1o - [Pd-1o * (Pt-1o) total porosity of area 1o]	g/cm^3		2.65
(Pd-1o) particle density of area 1o (use 2.65 as default)	g/cm^3	2.65	
(Pt-1o) total porosity of area 1o	cm^3/cm^3	0	
(Cmass-2o) mass of contaminant in area 2o = (Ct-2o) concentration of contaminant in area 2o * (Smass-2o) mass of soil in area 2o	mg		0.00E+00
(Ct-2o) concentration of contaminant in area 2o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF ONLY THE CONTAMINANT MASS FOR OUTSIDE AREA 1 IS TO BE CALCULATED, INPUT 0)	mg/kg	0	
(Smass-2o) mass of soil in area 2o = (Bd-2o) bulk density of soil in area 2o * (Vs-2o) volume of soil in area 2o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-2o) volume of soil in area 2o	m^3	0	
(Bd-2o) bulk density of area 2o = (Pd-2o) particle density of area 2o - [Pd-2o * (Pt-2o) total porosity of area 2o]	g/cm^3		2.65
(Pd-2o) particle density of area 2o (use 2.65 as default)	g/cm^3	2.65	
(Pt-2uw) total porosity of area 2uw	cm^3/cm^3	0	
(Cmass-3o) mass of contaminant in area 3o = (Ct-3o) concentration of contaminant in area 3o * (Smass-3o) mass of soil in area 3o	mg		0.00E+00

(Ct-3o) concentration of contaminant in area 3o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF THE CONTAMINANT MASS FOR ONLY TWO OUTSIDE AREAS IS TO BE CALCULATED, INPUT 0)	mg/kg	0	
(Smass-3o) mass of soil in area 3o = (Bd-3o) bulk density of soil in area 3o * (Vs-3o) volume of soil in area 3o * unit conversion factor (10^6 cm^3/1m^3 * 1kg/10^3 g)	kg		0.00E+00
(Vs-3o) volume of soil in area 3o	m^3	0	
(Bd-3o) bulk density of area 3o = (Pd-3o) particle density of area 3o - [Pd-3o * (Pt-3o) total porosity of area 3o]	g/cm^3		2.65
(Pd-3o) particle density of area 3o (use 2.65 as default)	g/cm^3	2.65	
(Pt-3o) total porosity of area 3o	cm^3/cm^3	0	
INPUT 1, IF MODELING A CONTAMINANT, DIFFUSING FROM AN OUTSIDE CONTAMINANT SOURCE, BEING DIRECTED BELOW A BUILDING BY CONTINUOUS PAVING; INPUT 0, IF MODELING A CONTAMINANT SOURCE DIFFUSING FROM UNDER A BUILDING AND/OR AIRBORNE CONTAMINATION ENTERING A BUILDING VIA A SOIL SOURCE LOCATED OUTSIDE THE BUILDING FOOTPRINT.	dimensionless	0	

INTAKE (INHALATION) OF VAPOR PHASE

Where: Intake = {[(Cmass-o / u * h * W) + (Cmass-u * b / V * E)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

Variables	Units	Inputs	Outputs
(Cmass-o) mass of contaminant in soil located outside building footprint.	mg		0.00E+00
(u) mean wind speed	m/sec	2.25	1.00
(h) height of ambient air mixing zone (e.g. height of window or ventilation system intake)	m	3	1
(W) width of the source area outside building	m	6	1
(Cmass-u) total mass of contaminant under building	mg		3.84E+04
(b) attenuation factor	dimensionless	0.001	
(V) volume of building	m^3	442	442
(E) exchange rate	bldg. vol./sec	5.56E-04	5.56E-04
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		5.78E-09

INTAKE (INHALATION) OF VAPOR PHASE

Where: Intake = {[(1/2 Cmass-o * b / V * E * W)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

(Cmass-d) mass of contamination directed under building by continuous surface paving from contaminated soil located outside building footprint.	mg		0.00E+00
(b) attenuation factor	dimensionless		
(V) volume of building	m^3		1
(E) exchange rate	bldg. vol./sec	5.56E-04	1.00E+00
(W) width of the source area outside building	m	60	1
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		0.00E+00

EXCESS LIFETIME RISK CALCULATION

EXCESS LIFETIME RISK = SL0PE FACTOR * UNITS OF EXPOSURE

Variables	Units	Inputs	Outputs
carcinogenic slope factor (potency factor)	1/mg/kg/day	0.007	
units of exposure (from intake calculation above)	mg/kg/day		5.78E-09
excess lifetime cancer risk	dimensionless		4.05E-11

Confirmation Report – Memory Send

Date & Time: May-14-2003 09:19am
Tel line : 714 568 5116
Machine ID : ENV HEALTH SECOND FLOOR

Job number	:	610
Date & Time	:	May-14 09:15am
To	:	919097816288
Number of pages	:	006
Start time	:	May-14 09:15am
End time	:	May-14 09:19am
Pages sent	:	006
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Job number : 610 *** SEND SUCCESSFUL ***

COUNTY OF ORANGE
HEALTH CARE AGENCY
REGULATORY HEALTH SERVICES
ENVIRONMENTAL HEALTH

JULIETTE A. POULSON, RN, MN
DIRECTOR
MIKE SPURGEON
DEPUTY AGENCY DIRECTOR
REGULATORY HEALTH SERVICES
STEVEN K. WONG
DIRECTOR
ENVIRONMENTAL HEALTH
MAILING ADDRESS:
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TELEPHONE: (714) 667-3600
FAX: (714) 568-5116
E-MAIL: environhealth@hca.co.orange.ca.us

FAX TO THE FOLLOWING NUMBER: (909) 781-6288

THE FOLLOWING PAGES ARE FOR:

Name of Individual: Kamron Saremi

Telephone Number:

Firm Name: SA RWQCB

Documents Transmitted: Clos. Rationale + maps — Crown Cleaners Brookhurst St., F.V.

Comments: Boss, please review & advise me of your comments. Thanks.

From: Luis Lodriguez — **HCA/Environmental Health**

(714) 667-3717 — **Telephone No.**

TOTAL NUMBER OF PAGES:

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COUNTY OF ORANGE
HEALTH CARE AGENCY

REGULATORY HEALTH SERVICES
ENVIRONMENTAL HEALTH

JULIETTE A. POULSON, RN, MN
DIRECTOR

MIKE SPURGEON
DEPUTY AGENCY DIRECTOR
REGULATORY HEALTH SERVICES

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FAX TO THE FOLLOWING NUMBER: (909) 781-6288

THE FOLLOWING PAGES ARE FOR:

Name of Individual: Kamron Saremi

Telephone Number:

Firm Name: SA RWQCB

Documents Transmitted: Clos. Rationale + Maps — Crown Cleaners Brookhurst St., F.V.

Comments: Bose, please review & advise me of your comments. Thanks.

From: Luis Lodriguez (714) 667-3717
HCA/Environmental Health **Telephone No.**

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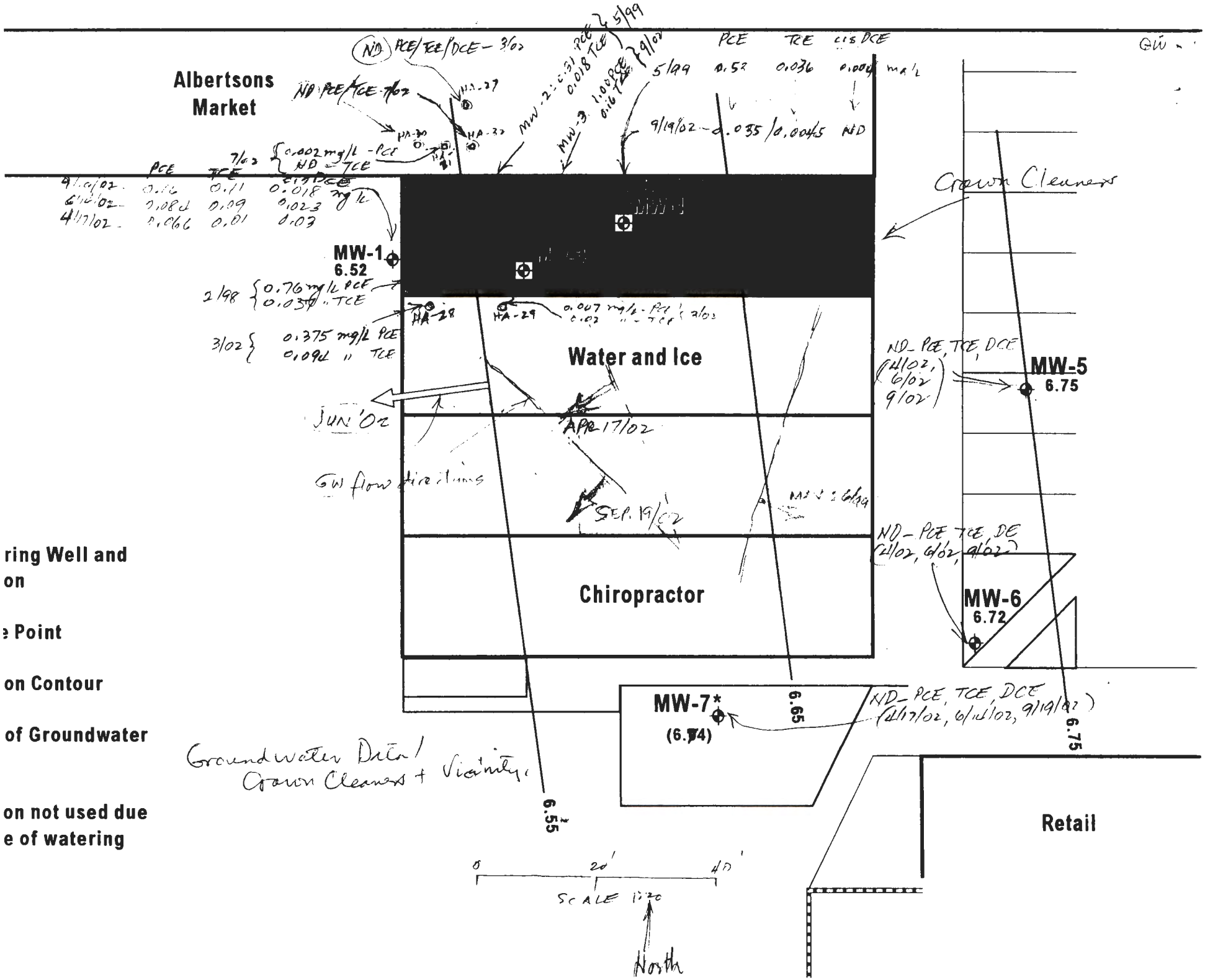
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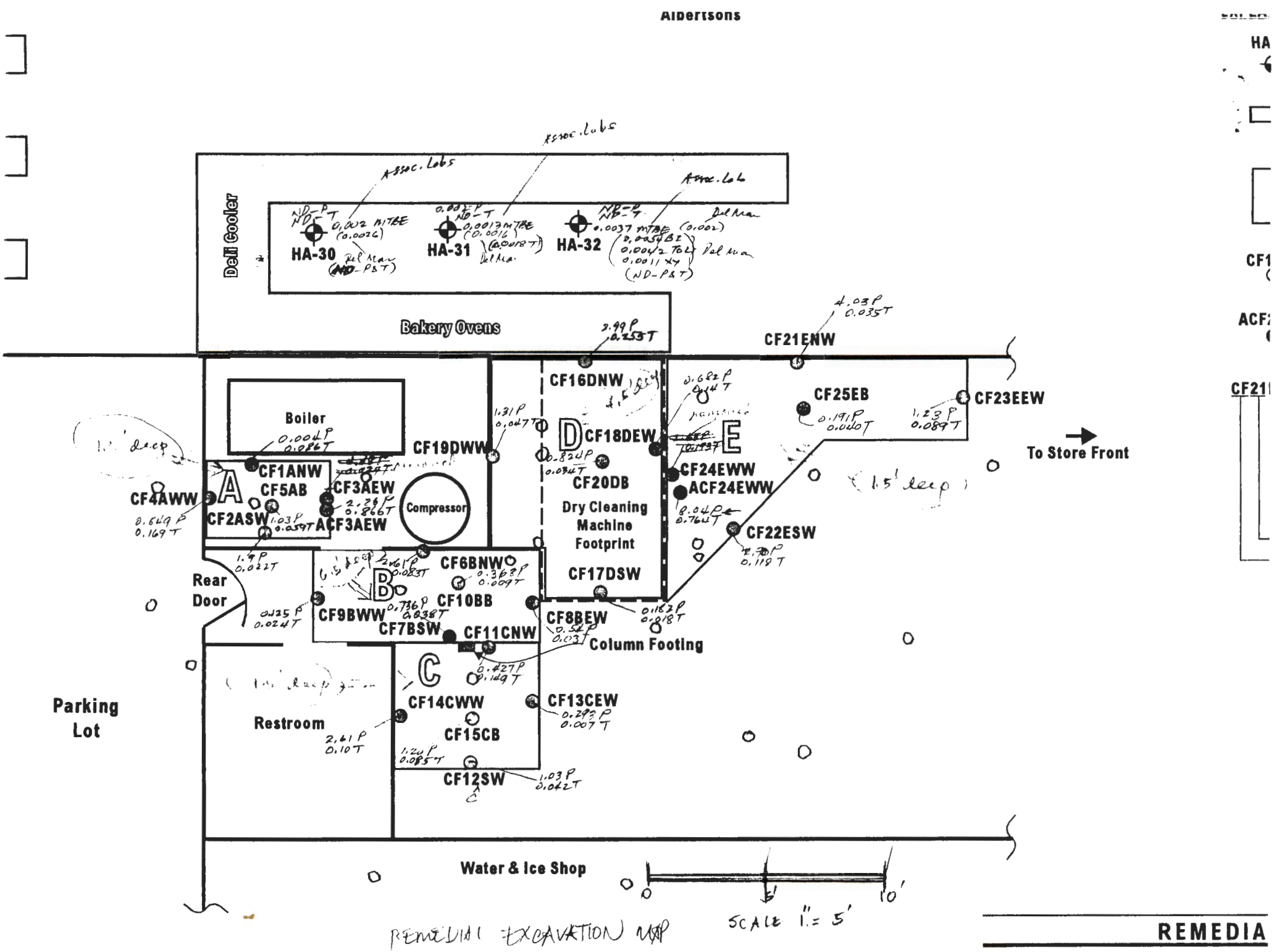
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Albertsons Market
MW-1
6.52
Water and Ice
Chiropractor
Crown Cleaners
MW-5
6.75
MW-6
6.72
MW-7*
(6.74)
6.65
6.55
6.75
Retail
HA-28
HA-29
JUN '02
APR 17/02
SEP. 19/02
GW flow directions
Groundwater Data / Crown Cleaners + Vicinity
0
20'
40'
SCALE 1:20
North
ring Well and
on
e Point
on Contour
of Groundwater
on not used due
e of watering


Albertsons
Assoc. Labs
Deli Cooler
HA-30
HA-31
HA-32
Bakery Ovens
CF21ENW
CF16DNW
CF25EB
CF23EEW
Boiler
CF19DWW
CF18DEW
CF24EWW
ACF24EWW
CF1ANW
CF5AB
CF3AEW
CF4AWW
CF2ASW
ACF3AEW
Compressor
CF20DB
Dry Cleaning Machine Footprint
To Store Front
CF22ESW
CF6BNW
CF17DSW
Rear Door
CF9BWW
CF10BB
CF7BSW
CF11CNW
CF8BEW
Column Footing
Parking Lot
Restroom
CF14CWW
CF13CEW
CF15CB
CF12SW
Water & Ice Shop
0
5'
10'
SCALE 1" = 5'
REMEDIAL EXCAVATION MAP
REMEDIA
CROWN CLEAI
Callens Corner Shopping Center,

Converse Consultants
Over 50 Years of Dedication in Geotechnical Engineering and Environmental Sciences

February 14, 2003

Mr. Luis Lodrigueza
Orange County Health Care Agency
2009 E. Edinger Avenue
Santa Ana, California 92705

Subject: **RESPONSE LETTER**
Request For Confirmation Sample Clarification
Crown Cleaners
18583 Brookhurst Street
Fountain Valley ~~Placentia~~, California
Converse Project No. 00-42-703-02
OCHCA Case File No. 96IC31

Dear Mr. Lodrigueza:

Converse Consultants (Converse), on behalf of Donahue Schriber, presents this response to your request for clarification of excavation confirmation sample ACF24EWW and its reported PCE concentration of 8.040 milligrams per kilogram (mg/Kg).

During the excavation and confirmation sampling activities at the above referenced site, the analytical results of one confirmation sample (Sample CF24EWW) indicated a PCE concentration of 2.65 ppm. Based on this result, Mr. Louis Lodrigueza requested the removal of approximately one to two additional feet of soil along the west side of Excavation E. Upon completing this subsequent removal, confirmation Sample ACF24EWW was collected and submitted for analysis. Based on the analytical results of other confirmation samples, representative samples previously collected in this area and the further removal noted above, Converse believed that no further excavation would be required.

The excavation was then backfilled with slurry and the floor was finished with concrete prior to the reported analysis of Sample ACF24EWW. Subsequent analytical results of confirmation sample ACF24EWW indicated a PCE concentration of 8.040 mg/Kg. Based on the analytical results of other confirmation samples and representative samples previously collected in this area, Converse estimates that approximately one cubic foot (ft^3) in the vicinity of Sample ACF24EWW is impacted with a concentration of PCE exceeding the residential Preliminary Cleanup Goal (PRG) of 5.7 mg/kg, but below the industrial PRG of 19.0 mg/Kg. The location of the confirmation samples, the approximate area of additional soil removal, the locations of previous samples and the estimated area of soil impacted by PCE concentrations greater than 5.7 mg/kg are shown on Figures 1 and 2.

185 East Paularino Avenue, Suite B, Costa Mesa, California 92626
Telephone: (714) 444-9660 ◆ Facsimile: (714) 444-9640 ◆ e-mail: occonv@aol.com
Accounting Facsimile: (714) 444-9651

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Converse believes that the impacted soil left in place poses no threat to human health. No further assessment or remediation activities are necessary at this time. Converse believes the Remedial Action Plan approved for this site as been implemented satisfactorily with the contaminant plume largely removed and respectfully request site closure. We are available at your convenience for a meeting.

If you have any questions concerning this letter, please contact either William Ragsdale or Stanley White at (714) 444-9660.

Sincerely,

CONVERSE CONSULTANTS

William Ragsdale
Senior Staff Environmental Scientist

Stanley G. White, R.G.
Senior Geologist,

Attachment:

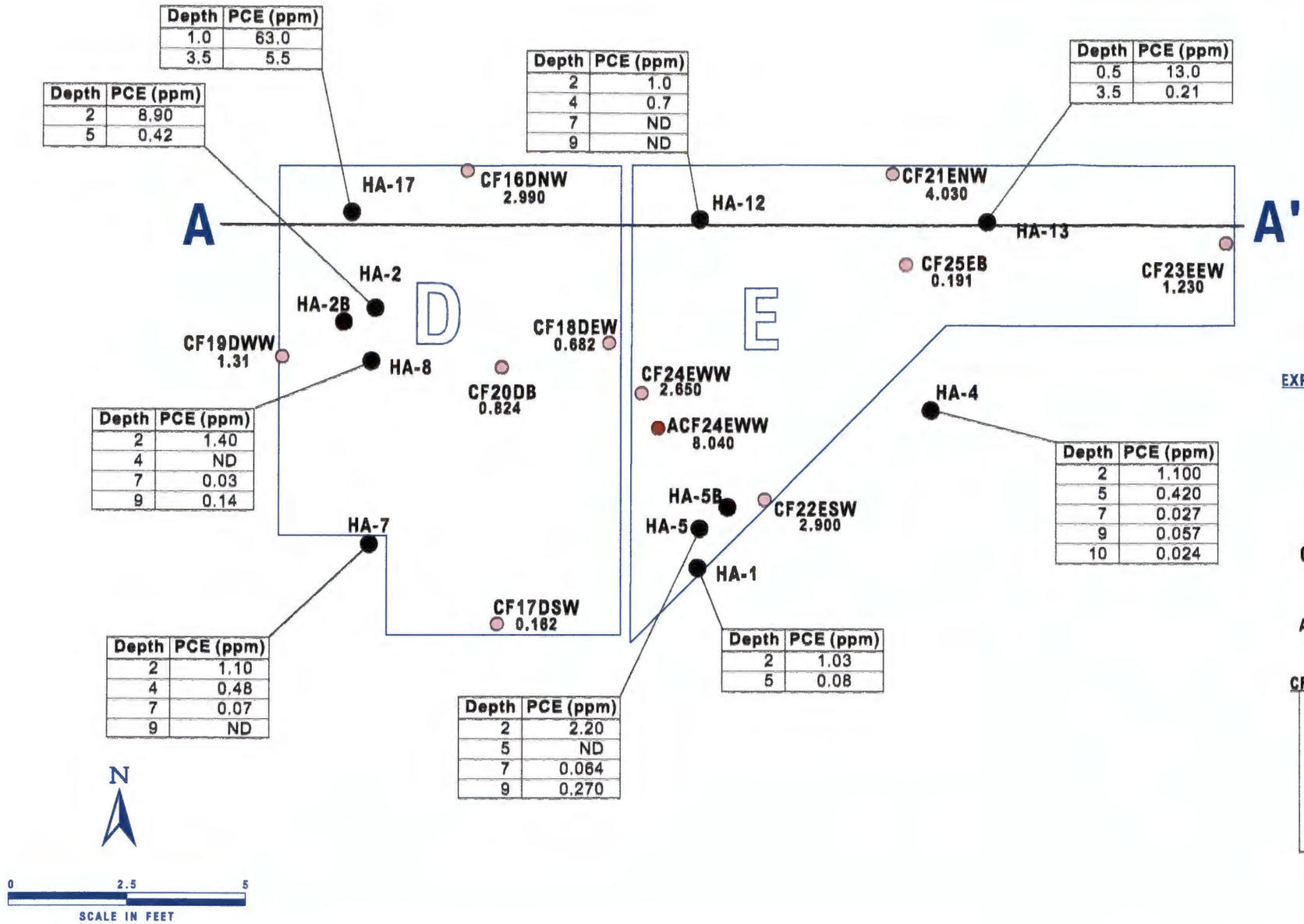
Figure 1 – PCE Soil Concentration Map
Figure 2 – Cross Section

Dist: 1/addressee

1/Mr. Henry A. Avila
Donahue Schriber Realty Group, L. P.
2200 W. Florida Ave., #300
Hemet, California 92545

1/Mr.Kamron Saremi
Santa Ana RWQCB
3737 Main Street, Suite 500
Riverside, CA 92501-3339

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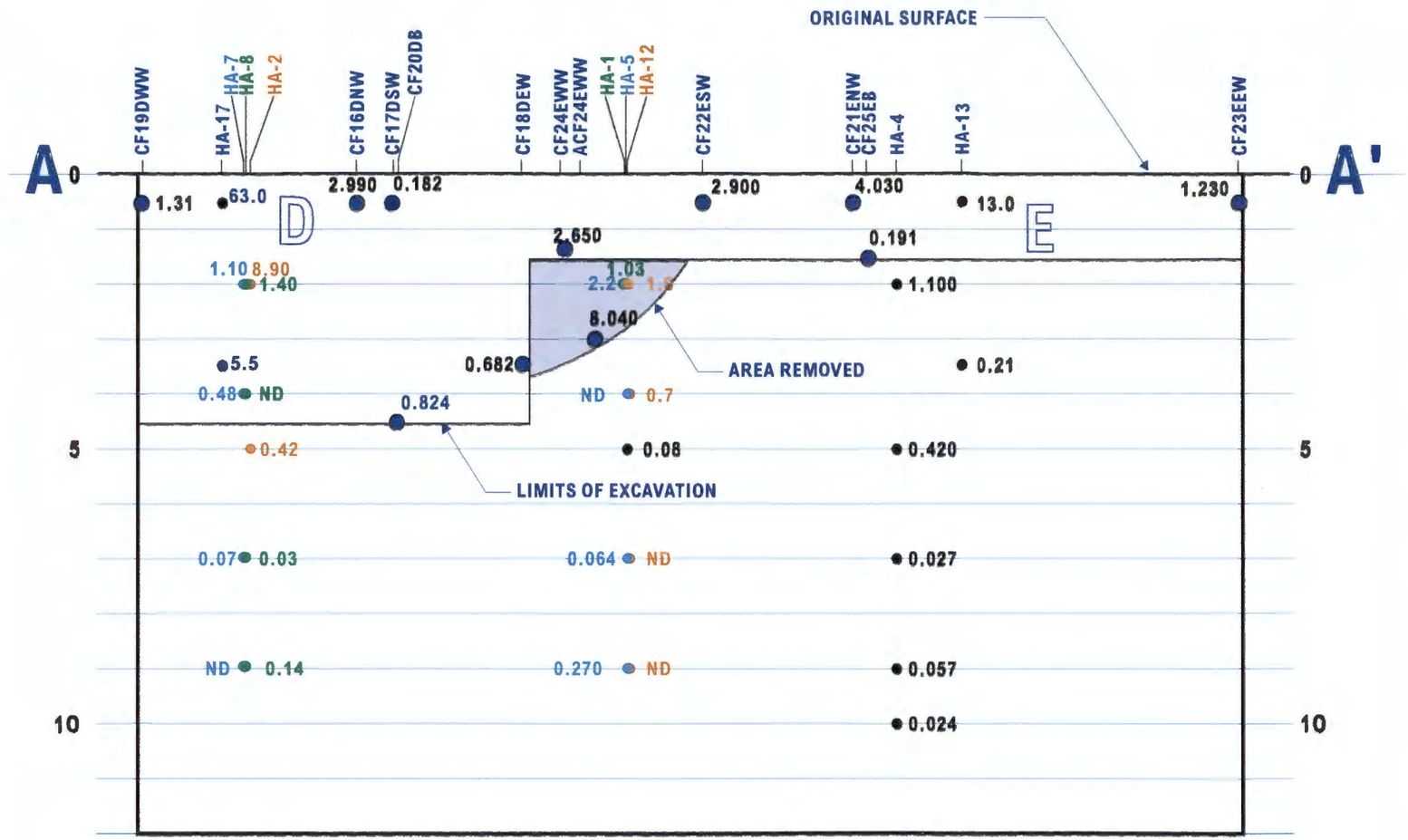


PCE SOIL CONCENTRATION MAP

CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Geotechnical Engineering and Applied Sciences

Scale	AS SHOWN
Date	2/03
Project No.	00-42-703-02
Prepared By	KLF
Checked By	WLR
Approved By	WLR
Figure No.	1



EXPLANATION

HA-32 — Groundwater Sample Location (2002)

Excavation Area
E -- Excavated to 1.5 feet ±
D -- Excavated to ±4.5 feet
±

CF25EB 0.191 — Confirmation Soil Sample Location Showing PCE in ppm

ACF24EW 8.040 — Confirmation Soil Sample Location with PCE Concentration below the Industrial PRG in ppm.

CF21ENW
- Indicates Sample Position (Wall or Bottom
- Indicates Sample Position (North Wall, South Wall, East Wall, or West Wall
- Indicates Area Designation
- Indicates Sample Number
- Indicates Confirmation Sample

HA-7 HA-8 HA-2
1.10 8.90
1.40

Colors used solely to differentiate Samples when samples appear to overlap in the section. Sample Name, Location, and Data Point are in corresponding colors for each level

CROSS SECTION

CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Geotechnical Engineering and Applied Sciences

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Date: 2/03
Prepared By: KLF
Checked By: WLR
Approved By: WLR
Project No.: 00-42-703-02
Figure No.: 2

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Converse Consultants

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Date February 14, 2003 **Project No.** 00-42-703-02

To:

Mr. Luis Lodrigueza
Orange County Health Care Agency
2009 E. Edinger Avenue
Santa Ana, California 92705

We are sending the following

Enclosed	☑	Regular Mail	☐
Separately	☐	Overnight	☑
		Hand Delivered	☐

Quantity	Description
1	**Response Letter** **Request for Confirmation Sample Clarification** **Crown Cleaners** **18583 Brookhurst Street** **Placentia, California**

Copies **To:**
Henry Avila, Donahue Schriber
Kamron Sarimi, Santa Ana Regional Water Quality Control Board

Remarks:

Sent by:

William Ragsdale
Senior Staff Environmental Scientist

Converse Consultants
Geotechnical Engineering
and Environmental Sciences

William Ragsdale
Senior Staff Environmental Scientist

185 E. Paularino Avenue
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Costa Mesa, CA 92626

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REGULATORY HEALTH SERVICES

OCHCA MASS-BASED CONTAMINANT AND INCREASED CANCER RISK ASSESSMENT

Site: Crown Cleaners		Revised 5/00	
Site contaminant: PCE	6/13/02		
Staff: Lodrigueza	Run #		

TOTAL CONTAMINANT MASS UNDER BUILDING

Cmass-u = Cmass-1u + Cmass-2u + Cmass-3u + ...(Cmass-nu)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-u) total mass of contaminant under building = (Cmass-1u) mass of contaminant in area 1u under building + (Cmass-2u) mass of contaminant in area 2u under building + (Cmass-3u) mass of contaminant in area 3u under building	mg		3.50E+05
(Cmass-1u) mass of contaminant in area 1u = (Ct-1u) concentration of contaminant in area 1u * (Smass-1u) mass of soil in area 1u	mg		7.15E+04
(Ct-1u) concentration of contaminant in area 1u **(IF CONTAMINANT MASS UNDER THE BUILDING IS NOT TO BE CALCULATED, INPUT 0)**	mg/kg	1.2	
(Smass-1u) mass of soil in area 1 = (Bd-1u) bulk density of soil in area 1u * (Vs-1u) vol. of soil in area 1u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		5.96E+04
(Vs-1u) volume of soil in area 1u	m^3	45.05	
(Bd-1u) bulk density of area 1u = (Pd-1u) particle density of area 1u - [Pd-1u * (Pt-1u) total porosity of area 1u]	g/cm^3		1.32
(Pd-1u) particle density of area 1u (use 2.65 as default)	g/cm^3	2.65	
(Pt-1u) total porosity of area 1u	cm^3/cm^3	0.501	
(Cmass-2u) mass of contaminant in area 2u = (Ct-2u) concentration of contaminant in area 2u * (Smass-2u) mass of soil in area 2u	mg		2.79E+05
(Ct-2u) concentration of contaminant in area 2u **(INPUT 0 IF ONLY ONE AREA OF CONTAMINANT MASS UNDER THE BUILDING IS TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE OF THE BUILDING FOOTPRINT IS TO BE CALCULATED)**	mg/kg	1.2	
(Smass-2u) mass of soil in area 2u = (Bd-2u) bulk density of soil in area 2u * (Vs-2u) vol. of soil in area 2u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		2.32E+05
(Vs-2u) soil volume of area 2u	m^3	155.78	
(Bd-2u) bulk density of area 2u = (Pd-2u) particle density of area 2u - [Pd-2u * (Pt-2u) total porosity of area 2u]	g/cm^3		1.49
(Pd-2u) particle density of area 2u (use 2.65 as default)	g/cm^3	2.65	
(Pt-2u) total porosity of area 2u	cm^3/cm^3	0.437	
(Cmass-3u) mass of contaminant in area 3u = (Ct-3u) concentration of contaminant in area 3u * (Smass-3u) mass of soil in area 3u	mg		0.00E+00
(Ct-3u) concentration of contaminant in area 3u **(INPUT 0 IF ONLY TWO AREAS OF SOIL MASS UNDER THE BUILDING ARE TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS TO BE CALCULATED)**	mg/kg	0	

(Smass-3u) mass of soil in area 3 = (Bd-3u) bulk density of soil in area 3u * (Vs-3u) volume of soil in area 3u * unit conversion factor (10^6 cm / 1 m^3 * 1 kg / 10^3 g)	kg		0.00E+00
(Vs-3u) soil volume of area 3u	m^3	0	
(Bd-3u) bulk density of area 3u = (Pd-3u) particle density of area 3u - [Pd-3u * (Pt-3u) total porosity of area 3u]	g/cm^3		2.65
(Pd-3u) particle density of area 3u (use 2.65 as default)	g/cm^3	2.65	
(Pt-3u) total porosity of area 3u	cm^3/cm^3	0	

TOTAL CONTAMINANT MASS OUTSIDE OF BUILDING FOOTPRINT

Cmass-o = Cmass-1o + Cmass-2o + Cmass-3o + ...(Cmass-no)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-o) total mass of contaminant outside building footprint = (Cmass-1o) mass of contaminant in area 1o outside building + (Cmass-2o) mass in area 2o outside building + (Cmass-3o) mass in area 3o outside building.	mg		0.00E+00
(Cmass-1o) mass of contaminant in area 1o = (Ct-1o) concentration of contaminant in area 1o * (Smass-1o) mass of soil in area 1o	mg		0.00E+00
(Ct-1o) concentration of contaminant in area 1o **(IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT TO BE CALCULATED, INPUT 0)**	mg/kg	0	
(Smass-1o) mass of soil in area 3o = (Bd-1o) bulk density of soil in area 1o * (Vs-1o) volume of soil in area 1o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-1o) volume of soil in area 1o	m^3	0	
(Bd-1o) bulk density of area 1o = (Pd-1o) particle density of area 1o - [Pd-1o * (Pt-1o) total porosity of area 1o]	g/cm^3		2.65
(Pd-1o) particle density of area 1o (use 2.65 as default)	g/cm^3	2.65	
(Pt-1o) total porosity of area 1o	cm^3/cm^3	0	
(Cmass-2o) mass of contaminant in area 2o = (Ct-2o) concentration of contaminant in area 2o * (Smass-2o) mass of soil in area 2o	mg		0.00E+00
(Ct-2o) concentration of contaminant in area 2o **(IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF ONLY THE CONTAMINANT MASS FOR OUTSIDE AREA 1 IS TO BE CALCULATED, INPUT 0)**	mg/kg	0	
(Smass-2o) mass of soil in area 2o = (Bd-2o) bulk density of soil in area 2o * (Vs-2o) volume of soil in area 2o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-2o) volume of soil in area 2o	m^3	0	
(Bd-2o) bulk density of area 2o = (Pd-2o) particle density of area 2o - [Pd-2o * (Pt-2o) total porosity of area 2o]	g/cm^3		2.65
(Pd-2o) particle density of area 2o (use 2.65 as default)	g/cm^3	2.65	
(Pt-2uw) total porosity of area 2uw	cm^3/cm^3	0	
(Cmass-3o) mass of contaminant in area 3o = (Ct-3o) concentration of contaminant in area 3o * (Smass-3o) mass of soil in area 3o	mg		0.00E+00

(Ct-3o) concentration of contaminant in area 3o **(IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF THE CONTAMINANT MASS FOR ONLY TWO OUTSIDE AREAS IS TO BE CALCULATED, INPUT 0)**	mg/kg	0	
(Smass-3o) mass of soil in area 3o = (Bd-3o) bulk density of soil in area 3o * (Vs-3o) volume of soil in area 3o * unit conversion factor (10^6 cm^3/1m^3 * 1kg/10^3 g)	kg		0.00E+00
(Vs-3o) volume of soil in area 3o	m^3	0	
(Bd-3o) bulk density of area 3o = (Pd-3o) particle density of area 3o - [Pd-3o * (Pt-3o) total porosity of area 3o]	g/cm^3		2.65
(Pd-3o) particle density of area 3o (use 2.65 as default)	g/cm^3	2.65	
(Pt-3o) total porosity of area 3o	cm^3/cm^3	0	

INTAKE (INHALATION) OF VAPOR PHASE

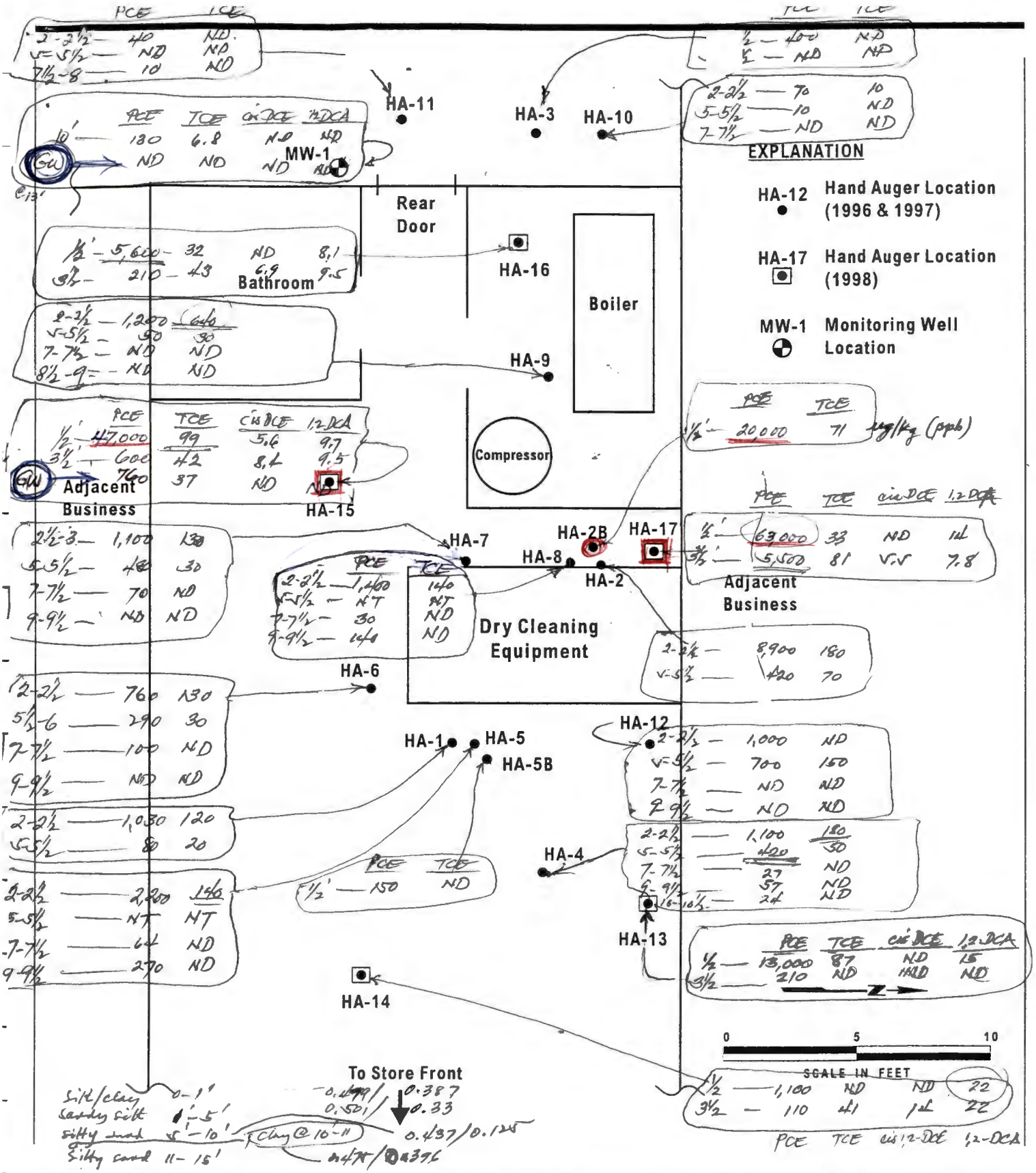
Intake = {[(Cmass-o / u * h * W) + (Cmass-u * b / V * E)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

Variables	Units	Inputs	Outputs
(Cmass-o) mass of contaminant entering building via the atmosphere which received the contaminant via diffusion from contaminated soil located outside building footprint	mg		0.00E+00
(Cmass-0.5o) mass of contamination directed under building by continuous surface paving from contaminated soil located outside building footprint **(ENTER 1 IF PAVED AREA DIRECTS VAPORS BELOW BUILDING, OR 0 IF AREA NOT PAVED)**	mg	0	0.00E+00
(u) mean wind speed	m/sec	2.25	1.00
(h) height of ambient air mixing zone (e.g. height of window or ventilation system intake)	m	3.40	1.00
(W) width of the source area outside building	m	21.00	1.00
(Cmass-u) total mass of contaminant under building	mg		3.50E+05
(b) attenuation factor	dimensionless	1.000	
(V) volume of building	m^3	425.00	425.00
(E) exchange rate	bldg. vol./sec	5.56E-04	5.56E-04
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		5.49E-05

EXCESS LIFETIME RISK CALCULATION

EXCESS LIFETIME RISK = SLOPE FACTOR * UNITS OF EXPOSURE

Variables	Units	Inputs	Outputs
carcinogenic slope factor (potency factor)	1/mg/kg/day	0.021	
units of exposure (from intake calculation above)	mg/kg/day		5.49E-05
excess lifetime cancer risk	dimensionless		1.15E-06



Flow Area = 20' x 75' = 1501 ft² = 139 m²

INVESTIGATION LOCATIONS

7/17/98

CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Project No. 96-42318-04

Figure No. 3

CONVERSE ENVIRONMENTAL WEST
Consulting Environmental Engineers and Geologists

Crown Cleaners 7/17/98

1. Assumed first foot of impacted soil above PRGs removed — over ½ of floor area

Floor A = 139 m²

2. Assumed residuals (max concs.) — entire floor area

0.305 m	(a) 1st ft	:	PCE — 5.6 mg/kg	TCE — 0.10	42.4 m³
0.762 m	1" – 3½" ft	:	PCE — 5.5 "	TCE — 0.64	105.9 m³
1.83 m.	3½ – 9" ft	:	PCE — 0.420 "	TCE — 0.18	254.2 m³

No LS (Soil)

OCHCA MASS-BASED CONTAMINANT AND INCREASED CANCER RISK ASSESSMENT

Site: Crown Cleaners MB	Revised 7/97		
Site contaminant: PCE	7/16/98		
Staff: Lodrigueza	Run #: 1		

TOTAL CONTAMINANT MASS UNDER BUILDING

Cmass-u = Cmass-1u + Cmass-2u + Cmass-3u + ...(Cmass-nu)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-u) total mass of contaminant under building = (Cmass-1u) mass of contaminant in area 1u under building + (Cmass-2u) mass of contaminant in area 2u under building + (Cmass-3u) mass of contaminant in area 3u under building	mg		1.26E+06
(Cmass-1u) mass of contaminant in area 1u = (Ct-1u) concentration of contaminant in area 1u * (Smass-1u) mass of soil in area 1u	mg		3.28E+05
(Ct-1u) concentration of contaminant in area 1u **(IF CONTAMINANT MASS UNDER THE BUILDING IS NOT TO BE CALCULATED, INPUT 0)**	mg/kg	5.6	
(Smass-1u) mass of soil in area 1 = (Bd-1u) bulk density of soil in area 1u * (Vs-1u) vol. of soil in area 1u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		5.85E+04
(Vs-1u) volume of soil in area 1u	m^3	42.4	
(Bd-1u) bulk density of area 1u = (Pd-1u) particle density of area 1u - [Pd-1u * (Pt-1u) total porosity of area 1u]	g/cm^3		1.38
(Pd-1u) particle density of area 1u (use 2.65 as default)	g/cm^3	2.65	
(Pt-1u) total porosity of area 1u	cm^3/cm^3	0.479	
(Cmass-2u) mass of contaminant in area 2u = (Ct-2u) concentration of contaminant in area 2u * (Smass-2u) mass of soil in area 2u	mg		7.70E+05
(Ct-2u) concentration of contaminant in area 2u **(INPUT 0 IF ONLY ONE AREA OF CONTAMINANT MASS UNDER THE BUILDING IS TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE OF THE BUILDING FOOTPRINT IS TO BE CALCULATED)**	mg/kg	5.5	
(Smass-2u) mass of soil in area 2u = (Bd-2u) bulk density of soil in area 2u * (Vs-2u) vol. of soil in area 2u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		1.40E+05
(Vs-2u) soil volume of area 2u	m^3	105.9	
(Bd-2u) bulk density of area 2u = (Pd-2u) particle density of area 2u - [Pd-2u * (Pt-2u) total porosity of area 2u]	g/cm^3		1.32
(Pd-2u) particle density of area 2u (use 2.65 as default)	g/cm^3	2.65	
(Pt-2u) total porosity of area 2u	cm^3/cm^3	0.501	
(Cmass-3u) mass of contaminant in area 3u = (Ct-3u) concentration of contaminant in area 3u * (Smass-3u) mass of soil in area 3u	mg		1.59E+05
(Ct-3u) concentration of contaminant in area 3u **(INPUT 0 IF ONLY TWO AREAS OF SOIL MASS UNDER THE BUILDING ARE TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS TO BE CALCULATED)**	mg/kg	0.42	

(Smass-3u) mass of soil in area 3 = (Bd-3u) bulk density of soil in area 3u * (Vs-3u) volume of soil in area 3u * unit conversion factor (10^6 cm / 1 m^3 * 1 kg / 10^3 g)	kg		3.80E+05
(Vs-3u) soil volume of area 3u	m^3	254.4	
(Bd-3u) bulk density of area 3u = (Pd-3u) particle density of area 3u - [Pd-3u * (Pt-3u) total porosity of area 3u]	g/cm^3		1.49
(Pd-3u) particle density of area 3u (use 2.65 as default)	g/cm^3	2.65	
(Pt-3u) total porosity of area 3u	cm^3/cm^3	0.437	

TOTAL CONTAMINANT MASS OUTSIDE OF BUILDING FOOTPRINT

Cmass-o = Cmass-1o + Cmass-2o + Cmass-3o + ...(Cmass-no)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-o) total mass of contaminant outside building footprint = (Cmass-1o) mass of contaminant in area 1o outside building + (Cmass-2o) mass in area 2o outside building + (Cmass-3o) mass in area 3o outside building.	mg		0.00E+00
(Cmass-1o) mass of contaminant in area 1o = (Ct-1o) concentration of contaminant in area 1o * (Smass-1o) mass of soil in area 1o	mg		0.00E+00
(Ct-1o) concentration of contaminant in area 1o **(IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT TO BE CALCULATED, INPUT 0)**	mg/kg	0	
(Smass-1o) mass of soil in area 3o = (Bd-1o) bulk density of soil in area 1o * (Vs-1o) volume of soil in area 1o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		1.43E+04
(Vs-1o) volume of soil in area 1o	m^3	9	
(Bd-1o) bulk density of area 1o = (Pd-1o) particle density of area 1o - [Pd-1o * (Pt-1o) total porosity of area 1o]	g/cm^3		1.59
(Pd-1o) particle density of area 1o (use 2.65 as default)	g/cm^3	2.65	
(Pt-1o) total porosity of area 1o	cm^3/cm^3	0.4	
(Cmass-2o) mass of contaminant in area 2o = (Ct-2o) concentration of contaminant in area 2o * (Smass-2o) mass of soil in area 2o	mg		0.00E+00
(Ct-2o) concentration of contaminant in area 2o **(IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF ONLY THE CONTAMINANT MASS FOR OUTSIDE AREA 1 IS TO BE CALCULATED, INPUT 1)**	mg/kg	0	
(Smass-2o) mass of soil in area 2o = (Bd-2o) bulk density of soil in area 2o * (Vs-2o) volume of soil in area 2o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		2.65E+03
(Vs-2o) volume of soil in area 2o	m^3	1	
(Bd-2o) bulk density of area 2o = (Pd-2o) particle density of area 2o - [Pd-2o * (Pt-2o) total porosity of area 2o]	g/cm^3		2.65
(Pd-2o) particle density of area 2o (use 2.65 as default)	g/cm^3	2.65	
(Pt-2uw) total porosity of area 2uw	cm^3/cm^3		
(Cmass-3o) mass of contaminant in area 3o = (Ct-3o) concentration of contaminant in area 3o * (Smass-3o) mass of soil in area 3o	mg		0.00E+00

(Ct-3o) concentration of contaminant in area 3o **(IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF THE CONTAMINANT MASS FOR ONLY TWO OUTSIDE AREAS IS TO BE CALCULATED, INPUT 0)**	mg/kg	0	
(Smass-3o) mass of soil in area 3o = (Bd-3o) bulk density of soil in area 3o * (Vs-3o) volume of soil in area 3o * unit conversion factor (10^6 cm^3/1m^3 * 1kg/10^3 g)	kg		0.00E+00
(Vs-3o) volume of soil in area 3o	m^3		
(Bd-3o) bulk density of area 3o = (Pd-3o) particle density of area 3o - [Pd-3o * (Pt-3o) total porosity of area 3o]	g/cm^3		2.65
(Pd-3o) particle density of area 3o (use 2.65 as default)	g/cm^3	2.65	
(Pt-3o) total porosity of area 3o	cm^3/cm^3		

INTAKE (INHALATION) OF VAPOR PHASE

Intake = {[(Cmass-o / u * h * W) + (Cmass-u * b / V * E)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

Variables	Units	Inputs	Outputs
(Cmass-o) mass of contaminant entering building via the atmosphere which received the contaminant via diffusion from contaminated soil located outside building footprint	mg		0.00E+00
(Cmass-0.5o) mass of contamination directed under building by continuous surface paving from contaminated soil located outside building footprint **(ENTER 1 IF PAVED AREA DIRECTS VAPORS BELOW BUILDING, OR 0 IF AREA NOT PAVED)**	mg	0	0.00E+00
(u) mean wind speed	m/sec	2.25	1.00
(h) height of ambient air mixing zone (e.g. height of window or ventilation system intake)	m	3.40	1.00
(W) width of the source area outside building	m	21.00	1.00
(Cmass-u) total mass of contaminant under building	mg		1.26E+06
(b) attenuation factor	dimensionless	0.001	
(V) volume of building	m^3	486.00	486.00
(E) exchange rate	bldg. vol./sec	5.56E-04	5.56E-04
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		1.72E-07

EXCESS LIFETIME RISK CALCULATION

EXCESS LIFETIME RISK = SL0PE FACTOR * UNITS OF EXPOSURE

Variables	Units	Inputs	Outputs
carcinogenic slope factor (potency factor)	1/mg/kg/day	0.021	
units of exposure (from intake calculation above)	mg/kg/day		1.72E-07
excess lifetime cancer risk	dimensionless		3.62E-09

OCHCA MASS-BASED CONTAMINANT AND INCREASED CANCER RISK ASSESSMENT

Site: Crown Cleaners MB	Revised 7/97		
Site contaminant: TCE	7/17/98		
Staff: Lodrigueza	Run #: 1		

TOTAL CONTAMINANT MASS UNDER BUILDING

Cmass-u = Cmass-1u + Cmass-2u + Cmass-3u + ...(Cmass-nu)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-u) total mass of contaminant under building = (Cmass-1u) mass of contaminant in area 1u under building + (Cmass-2u) mass of contaminant in area 2u under building + (Cmass-3u) mass of contaminant in area 3u under building	mg		1.64E+05
(Cmass-1u) mass of contaminant in area 1u = (Ct-1u) concentration of contaminant in area 1u * (Smass-1u) mass of soil in area 1u	mg		5.85E+03
(Ct-1u) concentration of contaminant in area 1u **(IF CONTAMINANT MASS UNDER THE BUILDING IS NOT TO BE CALCULATED, INPUT 0)**	mg/kg	0.1	
(Smass-1u) mass of soil in area 1 = (Bd-1u) bulk density of soil in area 1u * (Vs-1u) vol. of soil in area 1u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		5.85E+04
(Vs-1u) volume of soil in area 1u	m^3	42.4	
(Bd-1u) bulk density of area 1u = (Pd-1u) particle density of area 1u - [Pd-1u * (Pt-1u) total porosity of area 1u]	g/cm^3		1.38
(Pd-1u) particle density of area 1u (use 2.65 as default)	g/cm^3	2.65	
(Pt-1u) total porosity of area 1u	cm^3/cm^3	0.479	
(Cmass-2u) mass of contaminant in area 2u = (Ct-2u) concentration of contaminant in area 2u * (Smass-2u) mass of soil in area 2u	mg		8.96E+04
(Ct-2u) concentration of contaminant in area 2u **(INPUT 0 IF ONLY ONE AREA OF CONTAMINANT MASS UNDER THE BUILDING IS TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE OF THE BUILDING FOOTPRINT IS TO BE CALCULATED)**	mg/kg	0.64	
(Smass-2u) mass of soil in area 2u = (Bd-2u) bulk density of soil in area 2u * (Vs-2u) vol. of soil in area 2u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		1.40E+05
(Vs-2u) soil volume of area 2u	m^3	105.9	
(Bd-2u) bulk density of area 2u = (Pd-2u) particle density of area 2u - [Pd-2u * (Pt-2u) total porosity of area 2u]	g/cm^3		1.32
(Pd-2u) particle density of area 2u (use 2.65 as default)	g/cm^3	2.65	
(Pt-2u) total porosity of area 2u	cm^3/cm^3	0.501	
(Cmass-3u) mass of contaminant in area 3u = (Ct-3u) concentration of contaminant in area 3u * (Smass-3u) mass of soil in area 3u	mg		6.83E+04
(Ct-3u) concentration of contaminant in area 3u **(INPUT 0 IF ONLY TWO AREAS OF SOIL MASS UNDER THE BUILDING ARE TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS TO BE CALCULATED)**	mg/kg	0.18	

(Smass-3u) mass of soil in area 3 = (Bd-3u) bulk density of soil in area 3u * (Vs-3u) volume of soil in area 3u * unit conversion factor (10^6 cm / 1 m^3 * 1 kg / 10^3 g)	kg		3.80E+05
(Vs-3u) soil volume of area 3u	m^3	254.4	
(Bd-3u) bulk density of area 3u = (Pd-3u) particle density of area 3u - [Pd-3u * (Pt-3u) total porosity of area 3u]	g/cm^3		1.49
(Pd-3u) particle density of area 3u (use 2.65 as default)	g/cm^3	2.65	
(Pt-3u) total porosity of area 3u	cm^3/cm^3	0.437	

TOTAL CONTAMINANT MASS OUTSIDE OF BUILDING FOOTPRINT

Cmass-o = Cmass-1o + Cmass-2o + Cmass-3o + ...(Cmass-no)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-o) total mass of contaminant outside building footprint = (Cmass-1o) mass of contaminant in area 1o outside building + (Cmass-2o) mass in area 2o outside building + (Cmass-3o) mass in area 3o outside building.	mg		0.00E+00
(Cmass-1o) mass of contaminant in area 1o = (Ct-1o) concentration of contaminant in area 1o * (Smass-1o) mass of soil in area 1o	mg		0.00E+00
(Ct-1o) concentration of contaminant in area 1o **(IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT TO BE CALCULATED, INPUT 0)**	mg/kg	0	
(Smass-1o) mass of soil in area 3o = (Bd-1o) bulk density of soil in area 1o * (Vs-1o) volume of soil in area 1o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		1.43E+04
(Vs-1o) volume of soil in area 1o	m^3	9	
(Bd-1o) bulk density of area 1o = (Pd-1o) particle density of area 1o - [Pd-1o * (Pt-1o) total porosity of area 1o]	g/cm^3		1.59
(Pd-1o) particle density of area 1o (use 2.65 as default)	g/cm^3	2.65	
(Pt-1o) total porosity of area 1o	cm^3/cm^3	0.4	
(Cmass-2o) mass of contaminant in area 2o = (Ct-2o) concentration of contaminant in area 2o * (Smass-2o) mass of soil in area 2o	mg		0.00E+00
(Ct-2o) concentration of contaminant in area 2o **(IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF ONLY THE CONTAMINANT MASS FOR OUTSIDE AREA 1 IS TO BE CALCULATED, INPUT 1)**	mg/kg	0	
(Smass-2o) mass of soil in area 2o = (Bd-2o) bulk density of soil in area 2o * (Vs-2o) volume of soil in area 2o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		2.65E+03
(Vs-2o) volume of soil in area 2o	m^3	1	
(Bd-2o) bulk density of area 2o = (Pd-2o) particle density of area 2o - [Pd-2o * (Pt-2o) total porosity of area 2o]	g/cm^3		2.65
(Pd-2o) particle density of area 2o (use 2.65 as default)	g/cm^3	2.65	
(Pt-2uw) total porosity of area 2uw	cm^3/cm^3		
(Cmass-3o) mass of contaminant in area 3o = (Ct-3o) concentration of contaminant in area 3o * (Smass-3o) mass of soil in area 3o	mg		0.00E+00

(Ct-3o) concentration of contaminant in area 3o **(IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF THE CONTAMINANT MASS FOR ONLY TWO OUTSIDE AREAS IS TO BE CALCULATED, INPUT 0)**	mg/kg	0	
(Smass-3o) mass of soil in area 3o = (Bd-3o) bulk density of soil in area 3o * (Vs-3o) volume of soil in area 3o * unit conversion factor (10^6 cm^3/1m^3 * 1kg/10^3 g)	kg		0.00E+00
(Vs-3o) volume of soil in area 3o	m^3		
(Bd-3o) bulk density of area 3o = (Pd-3o) particle density of area 3o - [Pd-3o * (Pt-3o) total porosity of area 3o]	g/cm^3		2.65
(Pd-3o) particle density of area 3o (use 2.65 as default)	g/cm^3	2.65	
(Pt-3o) total porosity of area 3o	cm^3/cm^3		

INTAKE (INHALATION) OF VAPOR PHASE

Intake = {[(Cmass-o / u * h * W) + (Cmass-u * b / V * E)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

Variables	Units	Inputs	Outputs
(Cmass-o) mass of contaminant entering building via the atmosphere which received the contaminant via diffusion from contaminated soil located outside building footprint	mg		0.00E+00
(Cmass-0.5o) mass of contamination directed under building by continuous surface paving from contaminated soil located outside building footprint **(ENTER 1 IF PAVED AREA DIRECTS VAPORS BELOW BUILDING, OR 0 IF AREA NOT PAVED)**	mg	0	0.00E+00
(u) mean wind speed	m/sec	2.25	1.00
(h) height of ambient air mixing zone (e.g. height of window or ventilation system intake)	m	3.40	1.00
(W) width of the source area outside building	m	21.00	1.00
(Cmass-u) total mass of contaminant under building	mg		1.64E+05
(b) attenuation factor	dimensionless	0.001	
(V) volume of building	m^3	486.00	486.00
(E) exchange rate	bldg. vol./sec	5.56E-04	5.56E-04
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		2.24E-08

EXCESS LIFETIME RISK CALCULATION

EXCESS LIFETIME RISK = SLOPE FACTOR * UNITS OF EXPOSURE

Variables	Units	Inputs	Outputs
carcinogenic slope factor (potency factor)	1/mg/kg/day	0.010	
units of exposure (from intake calculation above)	mg/kg/day		2.24E-08
excess lifetime cancer risk	dimensionless		2.24E-10

Converse Consultants

TRANSMITTAL

Date October 7, 2002 **Project No.** 00-42-703-02

To:

Mr. Luis Lodrigueza
Orange County Health Care Agency
2009 East Edinger
Santa Ana, CA 92705-4720

We are sending the following

Enclosed	☑	Regular Mail	☐
Separately	☐	Overnight	☑
		Hand Delivered	☐

Quantity	Description
1	Groundwater Monitoring and Sampling Report Second Quarter 2002 Crown Cleaners 18583 Brookhurst Street ~~Placentia~~, California F.V.
1	Groundwater Monitoring and Sampling Report Third Quarter 2002 Crown Cleaners 18583 Brookhurst Street ~~Placentia~~, California F.V.
1	Remedial Action and Groundwater Sampling Report Crown Cleaners 18583 Brookhurst Street ~~Placentia~~, California F.V.

Copies **To:**
1 Mr. Kamron Saremi, California Regi

Sent by:

William Ragsdale
Senior Staff Environmental Scientist

Converse Consultants
Geotechnical Engineering
and Environmental Sciences

William Ragsdale
Senior Staff Environmental Scientist

185 E. Paularino Avenue
Suite B
Costa Mesa, CA 92626

☎ (714) 444-9660
CELL (909) 264-5145
FAX (714) 444-9640

wragsdale@converseconsultants.com
http://www.converseconsultants.com

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COUNTY OF ORANGE
HEALTH CARE AGENCY

REGULATORY HEALTH SERVICES
ENVIRONMENTAL HEALTH

JULIETTE A. POULSON, RN, MN
DIRECTOR

MIKE SPURGEON
DEPUTY AGENCY DIRECTOR
REGULATORY HEALTH SERVICES

STEVEN K. WONG, REHS, MPH
DIRECTOR
ENVIRONMENTAL HEALTH

MAILING ADDRESS:
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720

TELEPHONE: (714) 667-3600
FAX: (714) 972-0749
E-MAIL: environhealth@hca.co.orange.ca.us

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Integrity
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February 11, 2002

Henry A. Avila
Donahue Schriber Realty Group
2200 West Florida Avenue, #300
Hemet, CA 92545

Subject: **Work Plan for Additional Site Characterization**

Re: Crown Cleaners
18583 Brookhurst Street
Fountain Valley, CA 92708
OCHCA Case #96IC31

Dear Mr. Avila:

Please be advised that this Agency has reviewed the subject plan for additional investigation submitted by your consultant, Converse Consultants, and found it acceptable for implementation. The following consideration must, however, be addressed:

- Soil and groundwater samples collected during this proposed investigation must be analyzed not only for PCE but for other halogenated volatile organic compounds as well.

If you have any questions regarding this matter, please contact Luis Lodrigueza at (714) 667-3717.

Sincerely,

Luis Lodrigueza
Hazardous Waste Specialist
Hazardous Materials Mitigation Section
Environmental Health Division

LL:

cc: Kamron Saremi, Santa Ana Regional Water Quality Control Board
William Ragsdale, Converse Consultants

TRANSMISSION RESULT REPORT (FEB 08 '02 11:23AM)

COUNTY OF ORANGE

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HCA/Environmental Health **Telephone No.**

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This Information Sheet plus 2 **Page(s)**

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Converse Consultants

TRANSMITTAL

Date February 6, 2002 **Project No.** 00-42-703-02

To:

Mr. Luis Lodrigueza
Orange County Health Care Agency
2009 East Edinger Avenue
Santa Ana, California 92705

We are sending the following

Enclosed	☑	Regular Mail	☐
Separately	☐	Overnight	☑
		Hand Delivered	☐

Quantity	Description
2	Work Plan for Additional Site Characterization Crown Cleaner (existing dry cleaner facility) 18583 Brookhurst Street Fountain Valley, California

Copies To:

Remarks:

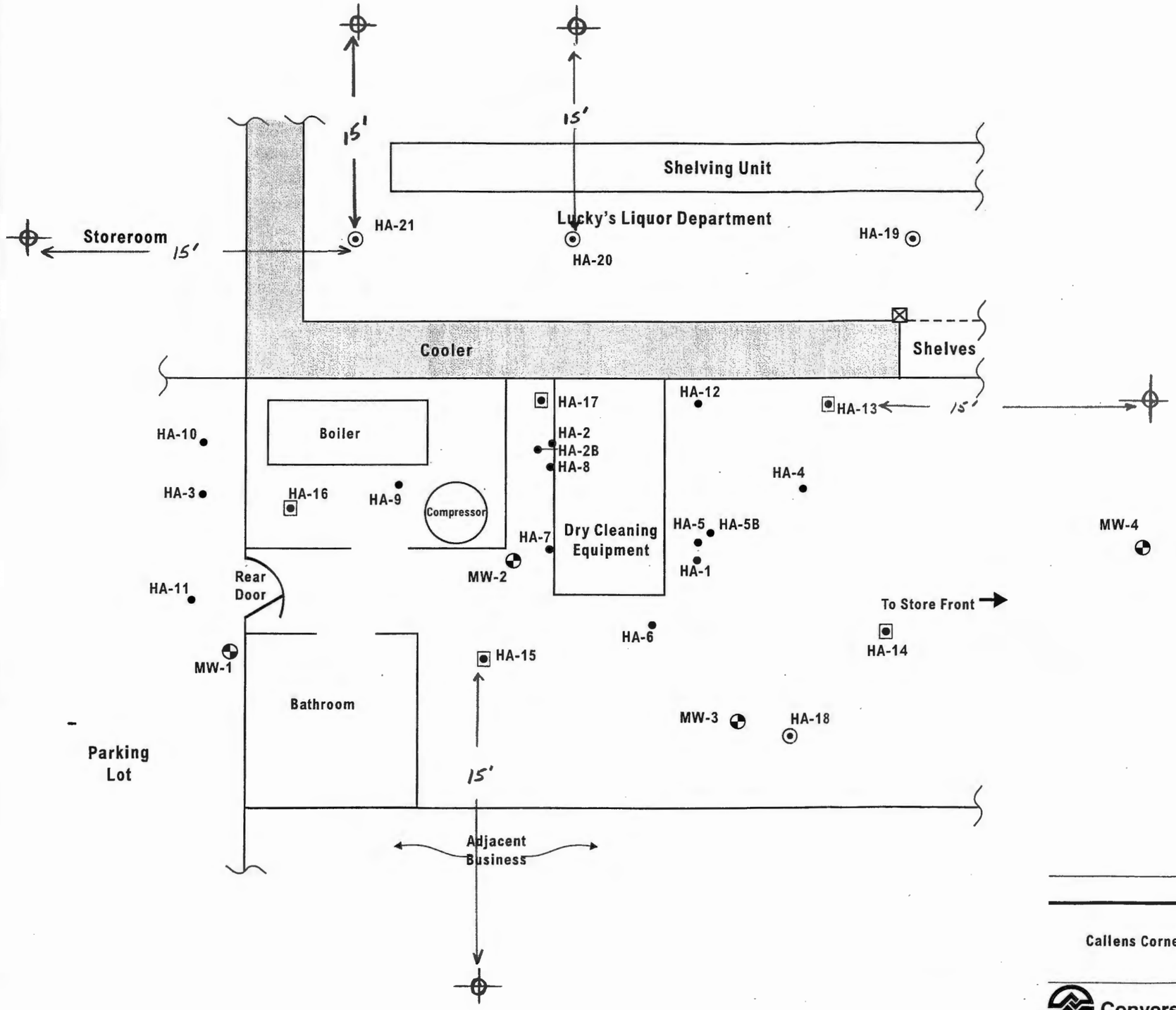
Sent by:

Karen Faris

for William Ragsdale
Senior Staff Environmental Scientist

185 E. Paularino Avenue, Suite B, Costa Mesa, CA 92626 – Phone: 714-444-9660 – Fax: 714-444-9640


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EXPLANATION

- HA-12 — Hand Auger Location (1996 & 1997)
- HA-17 — Hand Auger Location (1998)
- HA-21 — Geo Probe Location (1999)
- MW-4 — Monitoring Well Location

PROPOSED BORING LOCATION

MW-4

N

0 5 10

SCALE IN FEET

Approved by

INVESTIGATION LOCATIONS

CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Scale: AS SHOWN
Date: 7-12-99
Prepared By: KLF
Checked By:
Approved By:

Project No. 98-42589-16
Figure No. 3

Converse Consultants — Geotechnical Engineering and Applied Sciences

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Over 50 Years of Dedication in Geotechnical Engineering and Environmental Sciences

September 1, 1999

Mr. Luis Lodrigueza
Orange County Health Care Agency
2009 E. Edinger Avenue
Santa Ana, California 92705

Subject: **Work Plan for Additional Site Investigation**
Crown Cleaner (existing dry cleaner facility)
18583 Brookhurst Street
Fountain Valley, California
O.C.H.C.A. Case # 96IC31
Converse Project No. 98-42-589-16

Dear Mr. Lodrigueza:

Converse Consultants (Converse), on behalf of Donahue Schriber, is pleased to present this Work Plan for an additional site investigation at the Crown Cleaners facility located in Fountain Valley, California.

BACKGROUND

As presented in our *Summary Report - Site Investigation Results*, dated August 6, 1996, tetrachloroethene (PCE) and trichloroethene (TCE) were detected in the subsurface soils near the existing dry cleaner equipment and outside of the rear door of the facility. The Orange County Health Care Agency (County) reviewed the referenced report, and concluded that an excess lifetime cancer risk (ELCR) exists within the above referenced facility (County letter dated September 13, 1996). Based on the undefined extent of impacted soil, the County has requested that additional soil sampling be conducted to delineate the outer boundary of the shallow (6 inches to 3.5 feet below grade) soil contamination. The County also indicated that a groundwater investigation will need to be conducted to determine whether or not groundwater has been impacted (groundwater was encountered at a depth of 10 feet bgs during the previous investigation).

At the request of Mr. Jack Enlow (previous owner), Converse inquired if any general assumptions were made in the County's determination of the ELCR. The County indicated that the building dimensions were assumed and that soil samples collected from a depth of 2 feet were used to estimate the PCE concentration that would exist at a depth of 0.5 feet. In order to reevaluate the ELCR, at least one prior sample location would need to be resampled at a depth of 0.5 feet and the specific floor dimensions should be measured.

185 East Paularino Avenue, Suite B, Costa Mesa, California 92626
Telephone: (714) 444-9660 ◆ Facsimile: (714) 444-9640 ◆ e-mail: occonv@aol.com
Accounting Facsimile: (714) 444-9651

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Converse completed the additional shallow soil investigation and documented the specific building dimensions which were presented in the *Additional Site Investigation Report, dated February 7, 1997.* The report was submitted to the County for review. The County reviewed the report and issued a letter dated April 8, 1997 which reiterated their position, essentially requesting that the full extent of impacted soil be documented and that a groundwater investigation be initiated.

At the request of Mr. Enlow, Converse completed an additional five (5) sol borings as well as install one monitoring well at the facility. The results of the additional work were presented in the *Additional Site Investigation Report, dated May 18, 1998.* The report was issued to the County for review. The County reviewed the report and issued a letter dated July 17, 1998. The County noted the following considerations which they would like to have addressed: 1) The highly impacted shallow soil contamination must be fully characterized and subsequently mitigated and 2) The detection of contamination in an interior grab groundwater sample and the presence of significant vadose zone contamination very close to the water table beneath the site require that additional groundwater characterization be undertaken.

In response to that letter, on May 26, 1999 Converse conducted soil-sampling activities at six (6) locations (MW-2, MW-3, HA-18, HA-19, HA-20 and HA-21) inside the dry cleaners and the adjacent business to the north. Soil samples were collected at a depth of 2, 5, and 10 feet bgs and field screened with an organic vapor analyzer. MW-2 and MW-3 was constructed as groundwater monitoring wells immediately upon completion and the collection of soil samples.

Converse submitted eighteen (18) soil samples for chemical analysis the samples were sealed, labeled and stored in a cooler with ice under chain-of-custody procedures. The samples were then delivered to Associated laboratories, located in Orange, California (State certified laboratory) for chemical analysis in accordance with EPA Method 8021B Halogenated Volatile Organics (HVO).

Concurrently on May 26, 1999, three (3)-monitoring wells were installed at the site. Design and construction of the monitoring wells were generally based on local regulatory agency requirements and was permitted by the Orange County Health Care Agency; Water Quality Section (Receipt No. 01-07659) dated March 31, 1999. These wells were identified as MW-2, MW-3, and MW-4.

The well screen interval was based on the depth to first water encountered (approximately 13 feet bgs) during installation. The total well depth was based on earlier data collected from previous monitoring of groundwater from well MW-1. Monitoring wells MW-2, MW-3, and MW-4 were installed with a single wall ¾-inch I.D. PVC well screen from a total depth of approximately 16 feet bgs. All three wells were screened from 10 to 16 feet bgs. Blank PVC casing was connected with flush-threads to the top of each well screen. The blank PVC casing extended to within 0.5 feet of the ground surface. The bottom of the each well screen was fitted with a PVC flush-threaded cap and the top of casing was fitted with a PVC slip cap.

The ¾-inch I.D. PVC well casing was installed utilizing 2-inch diameter direct push Geoprobe rods. The rods were hydraulically advanced to the total depth of each well. The well casings were placed through the rods and the rods removed. Filter sand was then poured into the annular space around the casing. The filter sand pack was brought up to a depth equal to approximately 1 feet above the top of each well screen. A bentonite seal was placed across the top of the filter pack sand from a depth of approximately 1.5 to 3.5 feet. A well box with a secured lid was then set in concrete over the wells, flush with the ground surface.

The monitoring wells were developed by Converse subsequent to the completion of well construction using a hand pump with Teflon tubing. Water was produce from the well until the indicator parameters stabilized. The indicator parameters include temperature, salinity, specific conductivity, and pH and water clarity.

On May 26, 1999, Converse measured the depths to groundwater, purged, and sampled the three onsite groundwater monitoring wells MW-2, MW-3 and MW-4. The monitoring wells were purged using a hand pump with Teflon tubing. The wells were purged until the generally accepted casing 3 casing volumes were removed and until the water quality parameters (pH, temperature, and conductivity) had stabilized to within 10 percent between measurements.

Groundwater samples were collected from each monitoring well (MW-2, MW-3 andMW-4) using well-dedicated Teflon bailer. The samples were placed into laboratory-prepared 40-mil glass containers, sealed, labeled and stored in a cooler with ice under chain-of-custody procedures. The samples were delivered to Associated laboratories, located in Orange, California (State certified laboratory) for chemical analysis by EPA method 8260.

The purged groundwater remains stored onsite in a label; DOT-approved 55-gallon drum pending transportation and disposal/recycling at a State of California licensed treatment, storage, and disposal facility.

A report dated July 21, 1999, titled *Site Exploration and Groundwater Monitoring Well Installation* was submitted for review to the Orange County Health Care Agency. The Orange County Health Care Agency reviewed the referenced report and responded with letter dated August 9, 1999, it concluded that additional boreholes would be needed to define the lateral extent of impacted soil at this site. Additional groundwater investigation will also be required to delineate the groundwater contamination plume.

On august 10, 1999, Converse contacted Orange County Health Care Agency (OCHCA) to try to define what was required to due additional groundwater investigation. It was agreed upon by OCHCA and Converse that quarterly groundwater monitoring of the existing wells (MW-1, MW-2, MW-3 and MW-4) is acceptable at this point in time, but if the concentrations of PCE increase in the groundwater samples additional wells will be required.

OBJECTIVE

The objective of the proposed scope of services will be to investigate the lateral extent of dry cleaning solvents (PCE) in the shallow soils. Converse will also begin quarterly groundwater monitoring from the four (4) existing wells, at locations around the existing dry-cleaning equipment within the building to determine the extent of the released compounds that have impacted groundwater.

SCOPE OF SERVICES

For planning purposes, the Converse scope of services will generally consist of the following tasks:

- Begin quarterly groundwater monitoring program.
- Purge and sample the groundwater monitoring wells.
- Implement a sampling and analysis program to include five (5) soil boring locations within the building by coring through the concrete floor, Geo-probing into the underlying soil, and collecting soil samples at depths of 2, 5, 10 and 15 feet below ground surface (bgs). Soil samples will be field screened with an organic vapor analyzer (OVA). Three (3) of the five (5) borings will be located within the Lucky's Supermarket, which adjoins to the cleaners to the north. The remaining borings will be located within the cleaners at areas around the existing dry cleaning equipment. See attached Investigation Locations *(figure No. 3)* for proposed boring locations
- Submit twenty (20) soil samples for chemical analyses in accordance with EPA Method 8021 for purgeable halocarbons.
- Submit four (4) groundwater samples for chemical analyses in accordance with EPA Method 8260 for purgeable halocarbons.

- Prepare a report presenting a summary of observations during the field investigation work and monitoring well sampling, and the analytical results from the soil and groundwater samples tested. Converse will include our conclusions, recommendations for further investigation (if considered necessary). The final report will be signed by a California Registered Geologist.

TECHNICAL APPROACH

Direct Push Sampling

Soil samples will be collected utilizing Geoprobe® direct push sampling techniques at 6 locations. Converse will advance one (1) boring at each location. Samples from each boring will be collected at 2, 5, 10 and 15 feet bgs with duplicate samples field screened for volatile organic vapors with an organic vapor analyzer (OVA).

The soil sample to be field screened will be collected by removing the soil from the remaining sleeves and placing it in a ziplock bag to allow collection of headspace vapors emitted from the soil. A probe from an OVA will be inserted into the sample bag to qualitatively measure total volatile organic vapors.

The soil samples will be placed in EPA approved containers and placed in a cooler with ice to maintain a temperature of 39^0 F (4^0 C) during transport to a laboratory for chemical analysis. A Chain of Custody Record will be maintained. Associated Laboratories, located in Orange, California (State Certified Laboratory) will chemically analyze the sample in accordance with EPA Method 8021.

Groundwater Sampling and Analysis

The monitoring well will be purged in order to evacuate stagnant well water, so that a groundwater sample can be collected. The monitoring well will be purged until the generally accepted 3 casing volumes of water have been removed by bailing and/or stabilization of the indicator parameters. A "casing volume" is defined as the volume of water present inside the well casing at the time of the purge event.

After well purging a groundwater sample will be collected from the monitoring well using a disposable bailer. The groundwater sample will be placed in EPA approved glass containers and placed in a cooler with ice to maintain a temperature of 39^0 F (4^0 C) during transport to a laboratory for chemical analysis. A Chain of Custody Record will be maintained. Associated Laboratories, located in Orange, California (State Certified Laboratory) will chemically analyze the sample in accordance with EPA Method 8260.

Investigative Waste Disposal

Our scope of services does not include treatment or disposal of contaminated or clean soil/water that may be encountered during drilling. The drill cuttings encountered and well purge water generated during the proposed work will be placed into 55-gallon drums for proper temporary on-site storage. Ultimate disposition of the soil and water will depend on the amount and contents of the material.

SCHEDULE

Converse will schedule the investigation work upon receipt of your written approval of this Work Plan. Converse will notify you at least 48 hours prior to conducting the field investigation work. The summary report will be available within approximately 20 working days after receiving the laboratory analytical report for the soil and groundwater samples.

If you have any questions concerning this Work Plan, please contact either William Ragsdale at (714) 444-9660 or Ken Weston at (626) 930-1200.

Sincerely,

CONVERSE CONSULTANTS

William Ragsdale
Staff Environmental Scientist

Ken Weston
Senior Engineer

Attach: Figure No. 1 - Site Plan
Dist: 1/addressee
1/Mr. Bill Mendelson
Donahue Schriber Realty Group, L. P.
3501 Jamboree Road, Suite 300, South Tower
Newport Beach, California 92660

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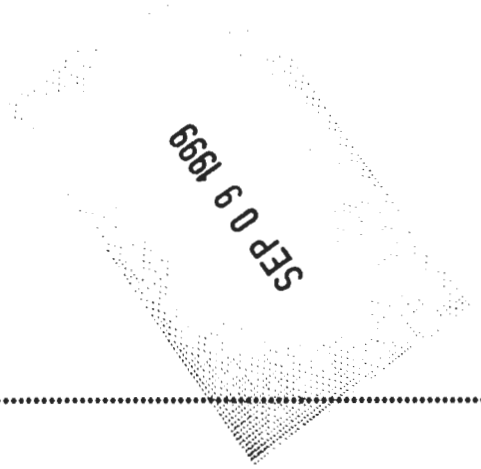
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PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

DONALD R. OXLEY
DIRECTOR

HILDY MEYERS, M.D.
INTERIM HEALTH OFFICER

JACK MILLER, REHS
DEPUTY DIRECTOR

MAILING ADDRESS:
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720

TELEPHONE: (714) 667-3600
FAX: (714) 568-5116

August 9, 1999

Post-it™ Fax Note 7671	Date 9-9-99	# of pages ▶ ONE
To William Kagsdale	From Luis Lodriguez	
Co./Dept. Converse	Co. OCHCA	
Phone #	Phone # (714) 667-3717	
Fax # (914) 444-9640	Fax #	

Bill Mendelsohn, CSM
Donahue Schriber Realty Group, L. P.
3501 Jamboree Road, Suite 300, South Tower
Newport Beach, CA 92660

Subject: **Site Exploration and Groundwater Monitoring Report**

Re: Crown Cleaners
18583 Brookhurst Street
Fountain Valley, CA 92708
OCHCA Case # 96*IC*31

Dear Mr. Mendelsohn:

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

DONALD R. OXLEY
DIRECTOR

HILDY MEYERS, M.D.
INTERIM HEALTH OFFICER

JACK MILLER, REHS
DEPUTY DIRECTOR

MAILING ADDRESS:
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720

TELEPHONE: (714) 667-3600
FAX: (714) 568-5116

August 9, 1999

Bill Mendelsohn, CSM
Donahue Schriber Realty Group, L. P.
3501 Jamboree Road, Suite 300, South Tower
Newport Beach, CA 92660

Subject: **Site Exploration and Groundwater Monitoring Report**

Re: Crown Cleaners
18583 Brookhurst Street
Fountain Valley, CA 92708
OCHCA Case # 96*IC*31

Dear Mr. Mendelsohn:

Please be advised that this Agency has reviewed the subject report and determined that two additional boreholes, i.e., one each south of HA-15 and east of HA-13, would be sufficient to define the lateral extent of soil impact at this site. However, additional groundwater investigation is required to delineate the groundwater contaminant plume beneath this site.

A remedial action plan will be required after completion of the above requirements.

Furthermore, please furnish this Agency with an authorization letter similar to the one attached to allow this Agency to continue case oversight.

If you have any questions regarding this matter, please contact me at (714) 667-3717.

Sincerely,

Luis Lodrigueza
Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division

LL:

Attachment

cc: Robert Holub, Santa Ana Regional Water Quality Control Board
William Ragsdale, Converse Consultants

IC:crowncleaners/rptresponse\lal.doc

Transmittal

Converse Consultants

Geotechnical Engineering and Environmental Sciences

185 East Paularino Avenue, Suite B
Costa Mesa, California 92626
Telephone: (714) 444-9660
FAX: (714) 444-9640

Date
July 28, 1999

Project
98-42589-16

To
Donahue Schriber Realty Group, L.P.
3501 Jamboree Road, Suite 300, South Tower
Newport Beach, CA 92660

Attention
Mr. Bill Mendelsohn

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- ☐ Other

Quantity	Description
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1	Mr. Louis Logregueza Orange County Health Care Agency 2009 East Edinger Avenue Santa Ana, California 92705-4720	(Sent Regular Mail)

Sent By

William Ragsdale
Staff Environmental Scientist

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HEALTH CARE AGENCY

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DIVISION OF ENVIRONMENTAL HEALTH

DONALD R. OXLEY
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HILDY MEYERS, M.D.
INTERIM HEALTH OFFICER

JACK MILLER, REHS
DEPUTY DIRECTOR

MAILING ADDRESS:
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720

TELEPHONE: (714) 667-3600
FAX: (714) 568-5116

May 13, 1999

Bill Mendelsohn, CSM
Donahue Schriber Realty Group, L. P.
3501 Jamboree Road, Suite 300, South Tower
Newport Beach, CA 92660

Subject: **Work Plan for Additional Investigation**

Re: Crown Cleaners
18583 Brookhurst Street
Fountain Valley, CA 92708
OCHCA Case # 96IC31

Dear Mr. Mendelsohn:

Please be advised that this Agency has reviewed the subject plan and found it acceptable for implementation.

If you have any questions regarding this matter, please contact me at (714) 667-3717.

Sincerely,

Luis Lodrigueza
Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division

LL:

cc: Robert Holub, Santa Ana Regional Water Quality Control Board
Dean Mochrie, Converse Consultants
William J. Diekmann, O. C. Supervising Hazardous Waste Specialist

IC:crowncleaners/wpresponse\lal.doc

TRANSMISSION RESULT REPORT (MAR 17 '99 02:09PM)

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To Dean McKree	Date 3-17-99 # of pages ▶ ONE
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Phone # (626) 930-1257	Co. OCHCA
Fax # (626) 930-1212	Phone # (714) 667-3717
	Fax # (714) 568-5116

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DIVISION OF ENVIRONMENTAL HEALTH

RONALD R. DILUIGI
INTERIM DIRECTOR

HUGH F. STALLWORTH, M.D.
HEALTH OFFICER

JACK MILLER, REHS
DEPUTY DIRECTOR

MAILING ADDRESS:
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720

TELEPHONE: (714) 667-3600
FAX: (714) 972-0749

July 17, 1998

Jack Enlow
c/o Rix Business Sales
354 Blue Cavern Point
Long Beach, CA 90803

Post-it™ Fax Note 7671

To Dean McKree	Date 3-17-99 # of pages ▶ ONE
Co./Dept. Converse Consultants	From Luis Lodriguez
Phone # (626) 930-1257	Co. OCHCA
Fax # (626) 930-1212	Phone # (714) 667-3717
	Fax # (714) 568-5116

Subject: Site Investigation Report

Re: Crown Cleaners
18583 Brookhurst Street
Fountain Valley, CA 92708
OCHCA Case # 96IC31

Dear Mr. Enlow:

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

RONALD R. DILUIGI
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2009 EAST EDINGER AVENUE
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TELEPHONE: (714) 667-3600
FAX: (714) 972-0749

July 17, 1998

Jack Enlow
c/o Rix Business Sales
354 Blue Cavern Point
Long Beach, CA 90803

Subject: Site Investigation Report

Re: Crown Cleaners
18583 Brookhurst Street
Fountain Valley, CA 92708
OCHCA Case # 96IC31

Dear Mr. Enlow:

Please be advised that this Agency has reviewed the subject document and would like the following considerations addressed:

1. The highly impacted shallow soil contamination must be fully characterized and subsequently mitigated. Please submit a workplan for additional site characterization/soil mitigation for Agency approval.
2. The detection of contamination in an interior grab groundwater sample--notwithstanding the absence of groundwater impact in the outdoor monitoring well--and the presence of significant vadose zone contamination very close to the water table beneath this site require that additional groundwater characterization be undertaken.

If you have any questions regarding this, please contact me at (714) 667-3717.

Sincerely,

Luis Lodrigueza
Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division

LL:

cc: Robert Holub, Santa Ana Regional Water Quality Control Board
Henry B. Ames, Converse Environmental West
William J. Diekmann, O. C. Supervising Hazardous Waste Specialist

IC:CrownCleaners\SA.RespLetter/LAL.doc.9

Transmittal

Converse Consultants

Geotechnical Engineering and Environmental Sciences

185 East Paularino Avenue, Suite B
Costa Mesa, California 92626
Telephone: (714) 444-9660
FAX: (714) 444-9640

Date
June 23, 1998

Project
96-42318-04

To
Orange County Health Care Agency
2009 E. Edinger Ave.
Santa Ana, CA 92705

Attention
Mr. Luis Lodrigueza

We are sending you the following

- [X] Enclosed
- [ ] Separately

- [ ] Regular Mail
- [ ] Special Delivery
- [ ] Air Mail
- [ ] Express Mail
- [X] Carrier

Quantity	Description
1	**Additional Site Investigation Report, dated May 18, 1998** **Crown Cleaners** **18583 Brookhurst St.** **Fountain Valley, CA** **OCHCA Case #96IC31**

Remarks

Copies To

RECEIVED
JUN 24 1998
HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH

Sent By

Henry B. Ames
Senior Geologist

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

TOM URAM
DIRECTOR

HUGH F. STALLWORTH, M.D.
HEALTH OFFICER

JACK MILLER, REHS
DEPUTY DIRECTOR

MAILING ADDRESS:
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720

TELEPHONE: (714) 667-3600
FAX: (714) 972-0749

December 23, 1997

Jack Enlow
c/o Rix Business Sales
354 Blue Cavern Point
Long Beach, CA 90803

Subject: Revised Work Plan for Additional Site Investigation

Re: Crown Cleaners
18583 Brookhurst Street
Fountain Valley, CA 92708
OCHCA Case # 96IC31

Dear Mr. Enlow:

Please be advised that this Agency has reviewed the subject document and found it to be acceptable for implementation provided that following consideration is addressed:

1. The monitoring well to be installed must be screened no more than 10 feet below the water table.

If you have any questions regarding this matter, please contact me at (714) 667-3717.

Sincerely,

Luis Lodrigueza
Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division

LL:

cc: Robert Holub, Santa Ana Regional Water Quality Control Board
Henry B. Ames, Converse Environmental West
William J. Diekmann, O. C. Supervising Hazardous Waste Specialist

Geotechnical and Environmental Engineering

CONVERSE ENVIRONMENTAL WEST

185 East Paularino Avenue
Suite B
Costa Mesa, CA 92626

714/444-9660
FAX 714/444-9640

December 5, 1997

Mr. Luis Lodrigueza
Orange County Health Care Agency
2009 E. Edinger Avenue
Santa Ana, California 92705

Subject: **Addendum - Work Plan for Additional Site Investigation**
Crown Cleaner (existing dry cleaner facility)
18583 Brookhurst Street
Fountain Valley, California
O.C.H.C.A. Case # 96IC31
Converse Project No. 96-42318-04

Dear Mr. Lodrigueza:

Converse Environmental West (Converse), on behalf of Mr. Jack Enlow, is pleased to present this Addendum to the previous Work Plan, dated July 25, 1997 for additional site assessment work at the Crown Cleaners facility. This addendum was prepared in response to discussions with you concerning: 1) the appropriateness of the proposed sample locations, 2) the need for groundwater sampling at a location as close to the documented source area (HA-2, near the dry cleaner machine), 3) and to quantify the leachability of the solvents in the site soils near the source area.

BACKGROUND

As presented in our *Summary Report - Site Investigation Results*, dated August 6, 1996, tetrachloroethene (PCE) and trichloroethene (TCE) were detected in the subsurface soils near the existing dry cleaner equipment and outside of the rear door of the facility. The Orange County Health Care Agency (County) reviewed the referenced report, and concluded that an excess lifetime cancer risk (ELCR) exists within the above referenced facility (County letter dated September 13, 1996). Based on the undefined extent of impacted soil, the County has requested that additional soil sampling be conducted to delineate the outer boundary of the shallow (6 inches to 3.5 feet below grade) soil contamination. The County also indicated that a groundwater investigation will need to be conducted to determine whether or not groundwater has been impacted (groundwater was encountered at a depth of 10 feet bgs during the prior investigation work).

At the request of Mr. Enlow, Converse inquired if any general assumptions were made in the County's determination of the ELCR. The County indicated that building dimensions were assumed and that soil samples collected from a depth of 2 feet were used to estimate the concentration of PCE which would exist at a depth of 0.5 feet. In order for a reevaluate the ELCR, at least one prior sample location would need to be resampled at a depth of 0.5 feet and specific floor dimensions should be measured.

Converse completed the additional shallow soil investigation and documented the specific building dimensions which were presented in the *Additional Site Investigation Report,* dated February 7, 1997. The report was submitted to the County for review. The County reviewed the report and issued a letter dated April 8, 1997 which reiterated their position, essentially requesting that the full extent of impacted soil be documented and that a groundwater investigation be initiated.

OBJECTIVE

The objective of the proposed scope of services will be to investigate the lateral extent of dry cleaning solvents (PCE) in the shallow soils (0-3.5 feet).

Due to the limited accessibility for a drill rig to drill within the building, Converse proposes to collect a groundwater grab sample at Boring HA-15. The location was based on the assumed groundwater downgradient direction (west). The chance of groundwater cross contamination from the PCE impacted soil will also be reduced, since the location is outside of the area of highest detected PCE in soil.

Converse will also install one groundwater well, in an accessible area outside the building, to investigate if the released compounds have impacted groundwater in the assumed downgradient direction (west).

SCOPE OF SERVICES

The Converse scope of services will generally consist of the following tasks:

- Implement a sampling and analysis program to include five (5) locations (HA-13, HA-14, HA-15, HA-16, and HA-17) within the building by coring through the concrete floor, hand-augering into the underlying soil, and collecting soil matrix samples at depths 0.5 and 3.5 feet. Soil samples will be field screened with an organic vapor analyzer (OVA). Boring HA-15 will be advanced to groundwater (10 feet) to attempt to collect a grab sample of the groundwater. The 5 borings will be located around the existing dry cleaning equipment and inside the boiler room. For proposed investigation locations, see Figure No. 1.

- Obtain a monitoring well permit from the City of Fountain Valley, and install a 2-inch diameter PVC groundwater monitoring well outside of the rear door of the dry cleaner facility. Groundwater is anticipated to be encountered at a depth of 10 to 15 feet bgs and the well screen will extend to an approximate depth of 20 to 30 feet bgs. For proposed well location, see Figure No. 1.

- Develop and purge and sample the groundwater monitoring well.

- Submit up to (11) soil samples (collected from the interior of the building and one collected at approximately 10 feet from the proposed well) and two (2) groundwater samples (one from the well and one from HA-15) for chemical analyses in accordance with EPA Method 8010. One of the soil samples, collected from HA-17 (near the source area; HA-2) will be analyzed in accordance with the Toxicity Characteristics Leaching Procedure (TCLP) for PCE. This test will quantify the leachability of the PCE in the low permeability silty clay soils.

- Prepare a report presenting a summary of observations during the field investigation work and the analytical results from the soil and groundwater samples tested. Converse will include our conclusions, recommendations for further investigation (if considered necessary). The final report will be signed by a California Registered Geologist.

TECHNICAL APPROACH

Hand Auger Sampling

Soil samples will be collected with a hand auger at five (5) locations. A hollow blade power-auger with a 3.25 inch diameter and a 6 inch barrel length will be torqued into the soil. The hand auger will be removed after every 6 inches prior to continuation of penetration. After augering an interval of 1 foot, operations will be stopped and a soil sample will be scanned for the presence of volatile organic vapors.

The sample to be scanned will be collected by removing soil from the barrel and placing it in a ziplock bag to allow collection of headspace vapors emitted from the soil. A probe from an organic vapor analyzed (OVA) will be inserted into the sample bag in order to qualitatively measure total volatile organic vapors.

When the proposed sampling depth is reached, a slide hammer with a hollow sampling barrel will be inserted into the boring. The sample barrel will contain a 6 inch brass sleeve which will be pounded into the soil. The sampler will then be removed from the borehole, opened and the brass sleeve containing the soil sample will be removed. The brass sleeve will be covered with Teflon sheeting and tightly capped. The sample will be labeled with hand auger borehole location, depth, project number and date of sample and will then be placed in a cooler with blue ice to maintain a temperature of 39^0 F (4^0 C) prior to chemical analysis. A Chain of Custody Record will be maintained. A California State Certified Laboratory will chemically analyze the soils samples in accordance with EPA Test Method 8010.

Well Construction

Design and construction of the proposed monitoring well will generally be based on local regulatory agency requirements and will be permitted by the City of Fountain Valley. The well screen interval will be based on the depth to first water encountered during drilling operations and the subsurface soil types encountered. The total well depth will be based on either 20 feet below first water encountered or the depth of a significant confining layer, whichever is shallower. A single wall 2.0 inch I.D. PVC well screen will be located from total depth to at least five feet above the present water level at the time of drilling. Blank PVC casing will be connected with flush-threads to the top of the well screen and will extend to the ground surface. The bottom of the well screen will be fitted with a PVC flush-threaded cap and the top of casing will be fitted with a PVC slip cap.

Typically, the 2-inch I.D. PVC well casing will be centralized within the 8-inch diameter hollow-stem auger borehole. The filter sand pack will be progressively poured into the casing annular space as the auger is pulled out of the borehole. Filter pack will be continuously checked for bridging using a weighted fiberglass measuring tape. If bridging occurs, the casing will be jarred to eliminate the bridge. The filter sand pack will be brought up to a depth equal to approximately 1-2 feet above the screen interval. After the filter sand has been placed in the well, and before the placement of the bentonite seal, the driller will surge block the well to see if the filter pack settles. If settlement occurs additional sand will be added prior to placement of the well seal. Using bentonite chips, a 2 to 3 foot thick bentonite seal will be placed in the casing annulus across the top of the filter pack sand. The bentonite seal will extent to within 1 foot of the ground surface.

The slot size of the well screen will be 0.010 inches with the appropriate related filter sand pack grain size. This slot size is based on the fine-grained sand and silts encountered during prior investigation work at the site.

A well cover with keyed cover bolts will be installed flush with the ground surface. Well cover installation procedures will be as follows: 1) the well cover is placed around the top of casing; 2) the well cover rim is leveled; 3) concrete is poured outside the skirt and finished at the surface using a masonry trowel; and 4) concrete is sloped away from well cover rim.

Well Development

The monitoring well will be developed by the drillers subsequent to completion of the well construction using a decontaminated (steam-cleaned) bailer. Water will be produce from the well until the indicator parameters have stabilized (except if the well is a low yielding well and dewaters). The indicator parameters include temperature, salinity, specific conductivity, pH and water clarity. Water clarity can be described using color, odor, immiscible fluid descriptions (oil sheen, frothy, free product) and turbidity descriptions (clear, cloudy, muddy, silty and sandy). The indicator parameters will be measured with an approximate frequency of 1 or 2 data sets for each well volume produced from the well. Several well volumes are usually produced before the indicator parameters stabilize.

The general criterion for stabilization is when there is little or no change (+10%) in parameter values between successive time measurements. The two primary parameters typically used to determine stability are conductivity and water clarity.

A "well volume" is defined as the volume of water present inside the well casing plus the pore volume of water in the linear footage of saturated filter sand in the casing annulus. A porosity of 35% bulk volume was used to estimate the unit pore volume of each linear foot of saturated filter sand. A "casing volume" is defined as the volume of water present inside the well casing.

Groundwater Sampling and Analysis

After a minimum of three days (after installation), the monitoring well will be purged in order to evacuate stagnant well water, so that a groundwater sample can be collected. The monitoring well will be purged until the generally accepted 3 to 10 casing volumes of water have been removed by bailing and\or stabilization of the indicator parameters. A "casing volume" is defined as the volume of water present inside the well casing at the time of this purge event.

After well purging a groundwater sample will be collected from the monitoring well using a disposable bailer. The groundwater sample will be placed in EPA approved glass containers and placed in a cooler with ice to maintain a temperature of 39^0 F (4^0 C) during transport to a laboratory for chemical analysis. A Chain of Custody Record will be maintained. A California State Certified Laboratory will chemically analyze the sample in accordance with EPA Method 8010.

Investigative Waste Disposal

Our scope of services does not include treatment or disposal of contaminated or clean soil/water that may be encountered during drilling. The drill cuttings encountered and well purge water generated during the proposed work will be placed into 55-gallon drums for proper temporary on-site storage. Ultimate disposition of the soil and water will depend on the amount and contents of the material.

SCHEDULE

Converse will schedule the investigation work upon receipt of your written approval of this Work Plan. Converse will notify you at least 48 hours prior to conducting the field investigation work. The summary report will be available within approximately 20 working days after receiving the laboratory analytical report for the soil and groundwater samples.

If you have any questions concerning this Work Plan, please contact us at (714) 444-9660.

Sincerely,

CONVERSE ENVIRONMENTAL WEST

Henry B. Ames, R.G.
Senior Geologist

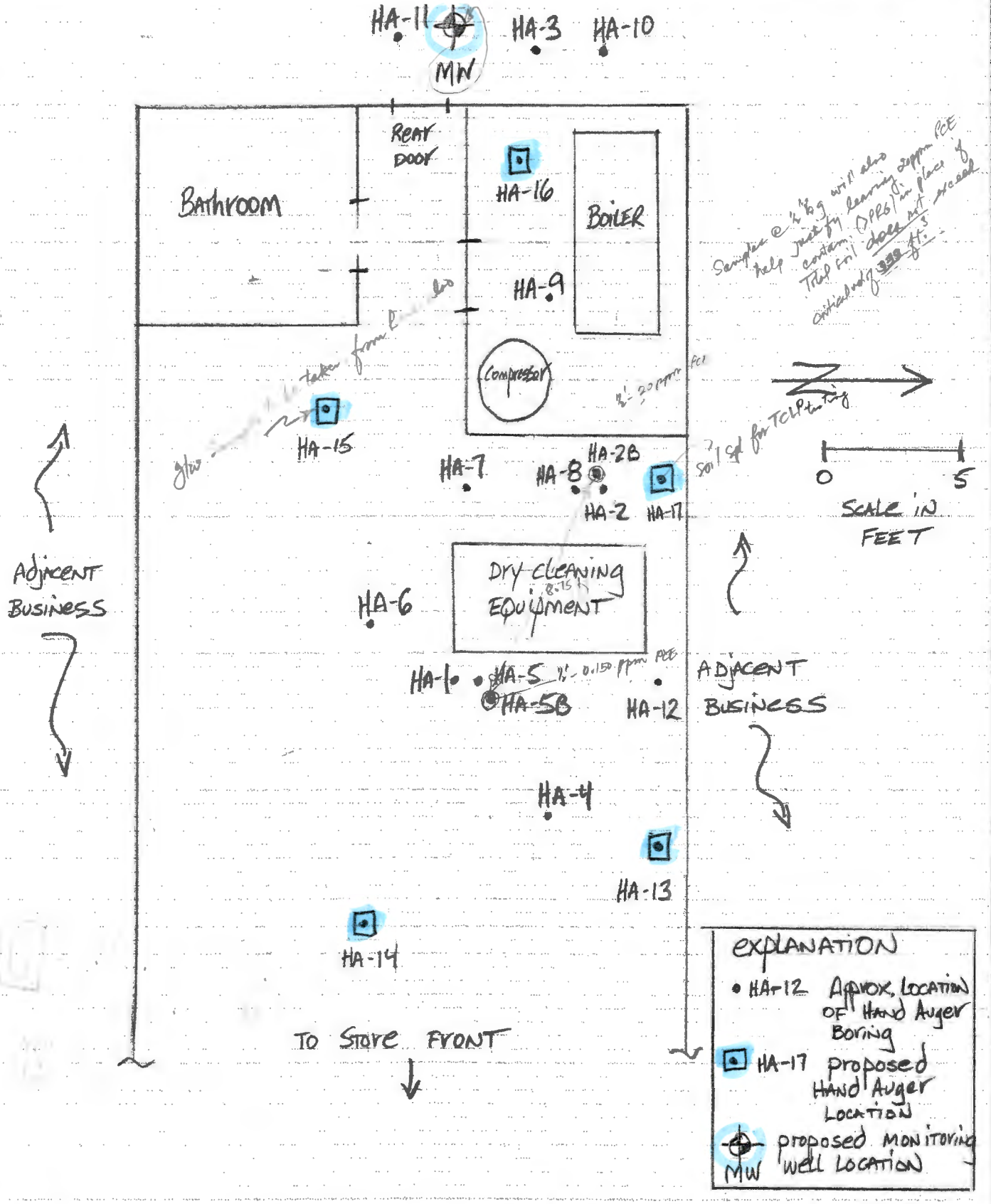
Attach: Figure No. 1 - Site Plan

Dist: 1/addressee
1/Mr. Jack Enlow c/o Rix Business Sales
1/Mr. John O'Meara - Diversified Shopping Centers

BY H. Ames DATE 11/11/97
CHKD. BY ____ DATE ____
PROJECT ____

CLIENT Crown Cleaners
Fountain Valley, CA.

SHEET NO. 1 OF 1
PROJECT NO. 96-42318-04



Converse Consultants

SIGNED ____
REG. NO. ____

SHEET NO. 1

RECEIVED
DEC 19 1997
HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH

OCHCA MASS-BASED CONTAMINANT AND INCREASED CANCER RISK ASSESSMENT

Site: Crown Cleaners	Revised 7/97		
Site contaminant: PCE	8/5/97		
Staff: Lodrigueza	Run #:	See LAT. doc - 9	

TOTAL CONTAMINANT MASS UNDER BUILDING

Cmass-u = Cmass-1u + Cmass-2u + Cmass-3u + ...(Cmass-nu)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-u) total mass of contaminant under building = (Cmass-1u) mass of contaminant in area 1u under building + (Cmass-2u) mass of contaminant in area 2u under building + (Cmass-3u) mass of contaminant in area 3u under building	mg		8.33E+06
concentration of contaminant in area 1u * (Smass-1u) mass of soil in area 1u	mg		4.74E+06
(Ct-1u) concentration of contaminant in area 1u **(IF CONTAMINANT MASS UNDER THE BUILDING IS NOT TO BE CALCULATED, INPUT 0)**	mg/kg	20	
(Smass-1u) mass of soil in area 1 = (Bd-1u) bulk density of soil in area 1u * (Vs-1u) vol. of soil in area 1u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		2.37E+05
(Vs-1u) volume of soil in area 1u	m^3	159	
(Bd-1u) bulk density of area 1u = (Pd-1u) particle density of area 1u - (Pd-1u * (Pt-1u) total porosity of area 1u)	g/cm^3		1.49
(Pd-1u) particle density of area 1u (use 2.65 as default)	g/cm^3	2.65	
(Pt-1u) total porosity of area 1u	cm^3/cm^3	0.437	
concentration of contaminant in area 2u * (Smass-2u) mass of soil in area 2u	mg		2.46E+06
(Ct-2u) concentration of contaminant in area 2u **(INPUT 0 IF ONLY ONE AREA OF CONTAMINANT MASS UNDER THE BUILDING IS TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE OF THE BUILDING FOOTPRINT IS TO BE CALCULATED)**	mg/kg	11.1	
(Smass-2u) mass of soil in area 2u = (Bd-2u) bulk density of soil in area 2u * (Vs-2u) vol. of soil in area 2u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		2.21E+05
(Vs-2u) soil volume of area 2u	m^3	159	
(Bd-2u) bulk density of area 2u = (Pd-2u) particle density of area 2u - (Pd-2u * (Pt-2u) total porosity of area 2u)	g/cm^3		1.39
(Pd-2u) particle density of area 2u (use 2.65 as default)	g/cm^3	2.65	
(Pt-2u) total porosity of area 2u	cm^3/cm^3	0.475	
concentration of contaminant in area 3u * (Smass-3u) mass of soil in area 3u	mg		1.13E+06
(Ct-3u) concentration of contaminant in area 3u **(INPUT 0 IF ONLY TWO AREAS OF SOIL MASS UNDER THE BUILDING ARE TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS TO BE CALCULATED)**	mg/kg	1.7	

(Smass-3u) mass of soil in area 3 = (Bd-3u) bulk density of soil in area 3u * (Vs-3u) volume of soil in area 3u * unit conversion factor (10^6 cm / 1 m^3 * 1 kg / 10^3 g)	kg		6.64E+05
(Vs-3u) soil volume of area 3u	m^3	477	
(Bd-3u) bulk density of area 3u = (Pd-3u) particle density of area 3u - (Pd-3u * (Pt-3u) total porosity of area 3u)	g/cm^3		1.39
(Pd-3u) particle density of area 3u (use 2.65 as default)	g/cm^3	2.65	
(Pt-3u) total porosity of area 3u	cm^3/cm^3	0.475	

TOTAL CONTAMINANT MASS OUTSIDE OF BUILDING FOOTPRINT

Cmass-o = Cmass-1o + Cmass-2o + Cmass-3o + ...(Cmass-no)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-o) total mass of contaminant outside building footprint = (Cmass-1o) mass of contaminant in area 1o outside building + (Cmass-2o) mass in area 2o outside building + (Cmass-3o) mass in area 3o outside building.	mg		0.00E+00
concentration of contaminant in area 1o * (Smass-1o) mass of soil in area 1o	mg		0.00E+00
(Ct-1o) concentration of contaminant in area 1o **(IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT TO BE CALCULATED, INPUT 0)**	mg/kg	0	
(Smass-1o) mass of soil in area 3o = (Bd-1o) bulk density of soil in area 1o * (Vs-1o) volume of soil in area 1o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		1.43E+04
(Vs-1o) volume of soil in area 1o	m^3	9	
(Bd-1o) bulk density of area 1o = (Pd-1o) particle density of area 1o - (Pd-1o * (Pt-1o) total porosity of area 1o)	g/cm^3		1.59
(Pd-1o) particle density of area 1o (use 2.65 as default)	g/cm^3	2.65	
(Pt-1o) total porosity of area 1o	cm^3/cm^3	0.4	
concentration of contaminant in area 2o * (Smass-2o) mass of soil in area 2o	mg		0.00E+00
(Ct-2o) concentration of contaminant in area 2o **(IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF ONLY THE CONTAMINANT MASS FOR OUTSIDE AREA 1 IS TO BE CALCULATED, INPUT 1)**	mg/kg	0	
(Smass-2o) mass of soil in area 2o = (Bd-2o) bulk density of soil in area 2o * (Vs-2o) volume of soil in area 2o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-2o) volume of soil in area 2o	m^3	1	
(Bd-2o) bulk density of area 2o = (Pd-2o) particle density of area 2o - (Pd-2o * (Pt-2o) total porosity of area 2o)	g/cm^3		0
(Pd-2o) particle density of area 2o (use 2.65 as default)	g/cm^3	0	
(Pt-2uw) total porosity of area 2uw	cm^3/cm^3	1	
concentration of contaminant in area 3o * (Smass-3o) mass of soil in area 3o	mg		0.00E+00

(Ct-3o) concentration of contaminant in area 3o **(IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF THE CONTAMINANT MASS FOR ONLY TWO OUTSIDE AREAS IS TO BE CALCULATED, INPUT 0)**	mg/kg	0	
(Smass-3o) mass of soil in area 3o = (Bd-3o) bulk density of soil in area 3o * (Vs-3o) volume of soil in area 3o * unit conversion factor (10^6 cm^3/1m^3 * 1kg/10^3 g)	kg		0.00E+00
(Vs-3o) volume of soil in area 3o	m^3	1	
(Bd-3o) bulk density of area 3o = (Pd-3o) particle density of area 3o - (Pd-3o * (Pt-3o) total porosity of area 3o)	g/cm^3		0
(Pd-3o) particle density of area 3o (use 2.65 as default)	g/cm^3	0	
(Pt-3o) total porosity of area 3o	cm^3/cm^3	0	

INTAKE (INHALATION) OF VAPOR PHASE

Intake = {((Cmass-o / u * h * W) + (Cmass-u * b / V * E)) * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

Variables	Units	Inputs	Outputs
(Cmass-o) mass of contaminant entering building via the atmosphere which received the contaminant via diffusion from contaminated soil located outside building footprint	mg		0.00E+00
(Cmass-0.5o) mass of contamination directed under building by continuous surface paving from contaminated soil located outside building footprint **(ENTER 1 IF PAVED AREA DIRECTS VAPORS BELOW BUILDING, OR 0 IF AREA NOT PAVED)**	mg	0	0.00E+00
(u) mean wind speed	m/sec	2.25	1.00
(h) height of ambient air mixing zone (e.g. height of window or ventilation system intake)	m	3.40	1.00
(W) width of the source area outside building	m	21.00	1.00
(Cmass-u) total mass of contaminant under building	mg		8.33E+06
(b) attenuation factor	dimensionless	0.001	
(V) volume of building	m^3	540.00	540.00
(E) exchange rate	bldg. vol./sec	5.56E-04	5.56E-04
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		1.03E-06

EXCESS LIFETIME RISK CALCULATION

EXCESS LIFETIME RISK = SLOPE FACTOR * UNITS OF EXPOSURE

Variables	Units	Inputs	Outputs
carcinogenic slope factor (potency factor)	1/mg/kg/day	0.021	
units of exposure (from intake calculation above)	mg/kg/day		1.03E-06
excess lifetime cancer risk	dimensionless		2.16E-08

CONVERSE ENVIRONMENTAL ORANGE COUNTY WEST

Geotechnical and Environmental Engineering

185 East Paularino
Suite B
Costa Mesa, CA 92626

714/444-9660
FAX 714/444-9640

July 25, 1997

Mr. Luis Lodrigueza
Orange County Health Care Agency
2009 E. Edinger Avenue
Santa Ana, California 92705

Revised 12/5/97

Subject: **Work Plan for Additional Site Investigation**
Crown Cleaner (existing dry cleaner facility)
18583 Brookhurst Street
Fountain Valley, California
O.C.H.C.A. Case # 96IC31
Converse Project No. 96-42318-04

Dear Mr. Lodrigueza:

Converse Environmental West (Converse), on behalf of Mr. Jack Enlow, is pleased to present this Work Plan for additional site assessment work at the Crown Cleaners facility located in Fountain Valley, California.

BACKGROUND

As presented in our *Summary Report - Site Investigation Results*, dated August 6, 1996, tetrachloroethene (PCE) and trichloroethene (TCE) were detected in the subsurface soils near the existing dry cleaner equipment and outside of the rear door of the facility. The Orange County Health Care Agency (County) reviewed the referenced report, and concluded that an excess lifetime cancer risk (ELCR) exists within the above referenced facility (County letter dated September 13, 1996). Based on the undefined extent of impacted soil, the County has requested that additional soil sampling be conducted to delineate the outer boundary of the shallow (6 inches to 3.5 feet below grade) soil contamination. The County also indicated that a groundwater investigation will need to be conducted to determine whether or not groundwater has been impacted (groundwater was encountered at a depth of 10 feet bgs during the prior investigation work).

At the request of Mr. Enlow, Converse inquired if any general assumptions were made in the County's determination of the ELCR. The County indicated that building dimensions were assumed and that soil samples collected from a depth of 2 feet were used to estimate the concentration of PCE which would exist at a depth of 0.5 feet. In order for a reevaluate the ELCR, at least one prior sample location would need to be resampled at a depth of 0.5 feet and specific floor dimensions should be measured.

A Wholly Owned Subsidiary of
The Converse Professional Group

Converse completed the additional shallow soil investigation and documented the specific building dimensions which were presented in the *Additional Site Investigation Report, dated February 7, 1997.* The report was submitted to the County for review. The County reviewed the report and issued a letter dated April 8, 1997 which reiterated their position, essentially requesting that the full extent of impacted soil be documented and that a groundwater investigation be initiated.

OBJECTIVE

The objective of the proposed scope of services will be to investigate the lateral extent of dry cleaning solvents (PCE) in the shallow soils. Converse will also install one groundwater well, in an accessible area outside the building to investigate if the released compounds have impacted groundwater.

SCOPE OF SERVICES

For planning purposes, the Converse scope of services will generally consist of the following tasks:

- Obtain a monitoring well permit from the City of Fountain Valley.
- Implement a sampling and analysis program to include seven (7) locations within the building by coring through the concrete floor, hand-augering into the underlying soil, and collecting soil matrix samples at depths 0.5 and 3.5 feet. Soil samples will be field screened with an organic vapor analyzer (OVA). The 7 borings will be located around the existing dry cleaning equipment and inside the boiler room. For proposed investigation locations, see Figure No. 1.
- Install a 2 inch diameter PVC groundwater monitoring well outside of the rear door of the dry cleaner facility. Groundwater is anticipated to be encountered at a depth of 10 to 15 feet bgs and the well screen will extend to an approximate depth of 20 to 30 feet bgs. For proposed investigation locations, see Figure No. 1.

no more than 10' below the water table

- Develop and purge and sample the groundwater monitoring well.
- Submit fourteen (14) soil samples (collected from the interior of the building) and one (1) groundwater sample for chemical analyses in accordance with EPA Method 8010.

- Prepare a report presenting a summary of observations during the field investigation work and the analytical results from the soil and groundwater samples tested. Converse will include our conclusions, recommendations for further investigation (if considered necessary). The final report will be signed by a California Registered Geologist.

TECHNICAL APPROACH

Hand Auger Sampling

Soil samples will be collected with a hand auger at seven (7) locations. A hollow blade power-auger with a 3.25 inch diameter and a 6 inch barrel length will be torqued into the soil. The hand auger will be removed after every 6 inches prior to continuation of penetration. After augering an interval of 1 foot, operations will be stopped and a soil sample will be scanned for the presence of volatile organic vapors.

The sample to be scanned will be collected by removing soil from the barrel and placing it in a ziplock bag to allow collection of headspace vapors emitted from the soil. A probe from an organic vapor analyzed (OVA) will be inserted into the sample bag in order to qualitatively measure total volatile organic vapors.

When the proposed sampling depth is reached, a slide hammer with a hollow sampling barrel will be inserted into the boring. The sample barrel will contain a 6 inch brass sleeve which will be pounded into the soil. The sampler will then be removed from the borehole, opened and the brass sleeve containing the soil sample will be removed. The brass sleeve will be covered with Teflon sheeting and tightly capped. The sample will be labeled with hand auger borehole location, depth, project number and date of sample and will then be placed in a cooler with blue ice to maintain a temperature of 39^0 F (4^0 C) prior to chemical analysis. A Chain of Custody Record will be maintained. Aton Laboratories, located in Northridge, California (State Certified Laboratory) will chemically analyze the soils samples in accordance with EPA Test Method 8010.

Well Construction

Design and construction of the proposed monitoring well will generally be based on local regulatory agency requirements and will be permitted by the City of Fountain Valley. The well screen interval will be based on the depth to first water encountered during drilling operations and the subsurface soil types encountered. The total well depth will be based on either 20 feet below first water encountered or the depth of a significant confining layer, whichever is shallower. A single wall 2.0 inch I.D. PVC well screen will be located from total depth to at least five feet above the present water level at the time of drilling. Blank PVC casing will be connected with flush-threads to the top of the well screen and will extend to the ground surface. The bottom of the well screen will be fitted with a PVC flush-threaded cap and the top of casing will be fitted with a PVC slip cap.

Typically, the 2-inch I.D. PVC well casing will be centralized within the 8-inch diameter hollow-stem auger borehole. The filter sand pack will be progressively poured into the casing annular space as the auger is pulled out of the borehole. Filter pack will be continuously checked for bridging using a weighted fiberglass measuring tape. If bridging occurs, the casing will be jarred to eliminate the bridge. The filter sand pack will be brought up to a depth equal to approximately 1-2 feet above the screen interval. After the filter sand has been placed in the well, and before the placement of the bentonite seal, the driller will surge block the well to see if the filter pack settles. If settlement occurs additional sand will be added prior to placement of the well seal. Using bentonite chips, a 2 to 3 foot thick bentonite seal will be placed in the casing annulus across the top of the filter pack sand. The bentonite seal will extent to within 1 foot of the ground surface.

The slot size of the well screen will be 0.010 inches with the appropriate related filter sand pack grain size. This slot size is based on the fine-grained sand and silts encountered during prior investigation work at the site.

A well cover with keyed cover bolts will be installed flush with the ground surface. Well cover installation procedures will be as follows: 1) the well cover is placed around the top of casing; 2) the well cover rim is leveled; 3) concrete is poured outside the skirt and finished at the surface using a masonry trowel; and 4) concrete is sloped away from well cover rim.

Well Development

The monitoring well will be developed by the drillers subsequent to completion of the well construction using a decontaminated (steam-cleaned) bailer. Water will be produce from the well until the indicator parameters have stabilized (except if the well is a low yielding well and dewaters). The indicator parameters include temperature, salinity, specific conductivity, pH and water clarity. Water clarity can be described using color, odor, immiscible fluid descriptions (oil sheen, frothy, free product) and turbidity descriptions (clear, cloudy, muddy, silty and sandy). The indicator parameters will be measured with an approximate frequency of 1 or 2 data sets for each well volume produced from the well. Several well volumes are usually produced before the indicator parameters stabilize.

The general criterion for stabilization is when there is little or no change (+10%) in parameter values between successive time measurements. The two primary parameters typically used to determine stability are conductivity and water clarity.

A "well volume" is defined as the volume of water present inside the well casing plus the pore volume of water in the linear footage of saturated filter sand in the casing annulus. A porosity of 35% bulk volume was used to estimate the unit pore volume of each linear foot of saturated filter sand. A "casing volume" is defined as the volume of water present inside the well casing.

Groundwater Sampling and Analysis

After a minimum of three days after installation, the monitoring well will be purged in order to evacuate stagnant well water, so that a groundwater sample can be collected. The monitoring well will be purged until the generally accepted 3 to 10 casing volumes of water have been removed by bailing and\or stabilization of the indicator parameters. A "casing volume" is defined as the volume of water present inside the well casing at the time of this purge event.

After well purging a groundwater sample will be collected from the monitoring well using a disposable bailer. The groundwater sample will be placed in EPA approved glass containers and placed in a cooler with ice to maintain a temperature of 39^0 F (4^0 C) during transport to a laboratory for chemical analysis. A Chain of Custody Record will be maintained. Aton Laboratories, located in Northridge, California (State Certified Laboratory) will chemically analyze the sample in accordance with EPA Method 8010.

Investigative Waste Disposal

Our scope of services does not include treatment or disposal of contaminated or clean soil/water that may be encountered during drilling. The drill cuttings encountered and well purge water generated during the proposed work will be placed into 55-gallon drums for proper temporary on-site storage. Ultimate disposition of the soil and water will depend on the amount and contents of the material.

SCHEDULE

Converse will schedule the investigation work upon receipt of your written approval of this Work Plan. Converse will notify you at least 48 hours prior to conducting the field investigation work. The summary report will be available within approximately 20 working days after receiving the laboratory analytical report for the soil and groundwater samples.

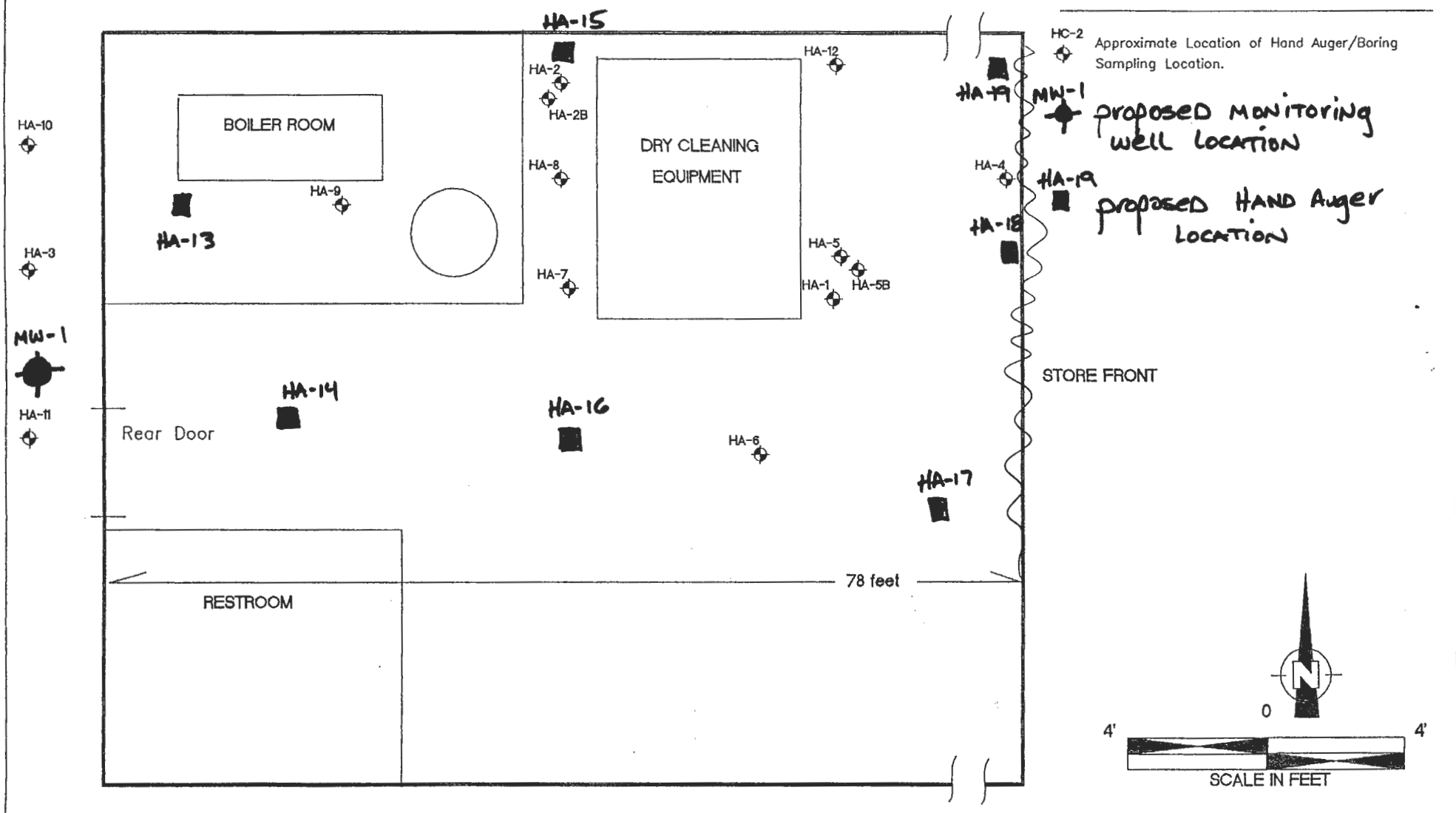
If you have any questions concerning this Work Plan, please contact us at (714) 444-9660.

Sincerely,
CONVERSE ENVIRONMENTAL WEST

Henry B. Ames, R.G.
Senior Geologist

Attach: Figure No. 1 - Site Plan
Dist: 1/addressee
1/Mr. Jack Enlow c/o Rix Business Sales
1/Mr. John O'Meara - Diversified Shopping Centers

RECEIVED
JUL 3 1 1997
HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH



SITE PLAN

CROWN CLEANERS
18583 Brookhurst Street
Fountain Valley, California

Converse Environmental West

Scale	AS SHOWN
Date	1-17-97
Prepared By	SSM
Checked By	JR
Approved By	HBA
Project No.	96-42318-04
Figure No.	1

RECEIVED
JUL 3 1 1997
HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

TOM URAM
DIRECTOR

HUGH F. STALLWORTH, M.D.
HEALTH OFFICER

JACK MILLER, REHS
DEPUTY DIRECTOR

MAILING ADDRESS:
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720

TELEPHONE: (714) 667-3600
FAX: (714) 972-0749

April 8, 1997

Jack Enlow
c/o Rix Business Sales
354 Blue Cavern Point
Long Beach, CA 90803

Subject: Additional Site Investigation Report

Re: Crown Cleaners
18583 Brookhurst Street
Fountain Valley, CA 92708
O.C.H.C.A. Case # 96IC31

Dear Mr. Enlow:

Please be advised that this Agency has reviewed the subject report prepared by Converse Environmental West for the purpose of collecting additional data for use in an updated risk assessment for the above-referenced site.

Based on mass-based contaminant and increased cancer risk calculations, and utilizing earlier and recently acquired information on site contamination, the resulting excess lifetime cancer risk is above the acceptable level of 1.0 E-06.

Site remediation is, therefore, indicated to remove the contaminant source that threatens human health. A definition of the full extent of soil contamination will be required for this purpose. Furthermore, because groundwater beneath the site is shallow, groundwater investigation will be necessary to determine whether or not water quality has been impacted. A remedial action plan should thereafter be submitted for Agency review and approval.

If you any questions regarding this, please call me at (714) 667-3717.

Sincerely,

Luis Lodrigueza
Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division

cc: Kamron Saremi, Santa Ana Regional Water Quality Control Board
Henry Ames, Converse Environmental West
William J. Diekmann, O.C. Supervising Hazardous Waste Specialist

MASS-BASED CONTAMINANT AND INCREASED CANCER RISK ASSESSMENT CALCULATIONS

SITE: Crown Cleaners 96IC31		Feb-97	
SITE CONTAMINANT: PCE	Superseded 4/1/97		
STAFF: Lodrigueza	RUN #: 4/8/97		

TOTAL CONTAMINANT MASS UNDER BUILDING

Mass-u = Mass-1u + Mass-2u + Mass-3u + ...(Mass-nu)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND AREA SOIL VOLUMES MUST BE ACCCOMPLISHED PRIOR TO USING THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Mass-u) total mass of contaminant under building = (Mass-1u) mass of contaminant in area 1u under building + (Mass-2u) mass of contaminant in area 2u under building + (Mass-3u) mass of contaminant in area 3u under building.	mg		8.33E+06
(Mass-1u) mass of contaminant in area 1u = (Ct-1u) concentration of contaminant in area 1u * (Smass-1u) mass of soil in area 1u	mg		4.74E+06
(Ct-1u) concentration of contaminant in area 1u (IF CONTAMINANT MASS UNDER THE BUILDING IS NOT TO BE CALCULATED, INPUT 0)	mg/kg	20	
Smass-1u = (Bd-1u) bulk density of soil in area 1u * (Vs-1u) vol. of soil in area 1u * unit conversion factor (10^6 cm^3/1 m^3 *1 kg/10^3 g)	kg		2.37E+05
(Vs-1u) volume of soil in area 1u	m^3	159	
(Bd-1u) bulk density of area 1u = (Pd-1u) particle density of area 1u - [Pd-1u * (Pt-1u) total porosity of area 1u]	g/cm^3		1.49
(Pd-1u) particle density of area 1u (use 2.65 as default)	g/cm^3	2.65	
(Pt-1u) total porosity of area 1u	cm^3/cm^3	0.437	
(Mass-2u) mass of contaminant in area 2u = (Ct-2u) concentration of contaminant in area 2u * (Smass-2u) mass of soil in area 2u	mg		2.46E+06
(Ct-2u) concentration of contaminant in area 2u (INPUT 0 IF ONLY 1 AREA OF CONTAMINANT MASS UNDER THE BUILDING IS TO BE CALCULATED, OR IF ONLY THE CONTAMINANT MASS OUTSIDE OF THE BUILDING FOOTPRINT IS TO BE CALCULATED)	mg/kg	11.1	
Smass-2u = (Bd-2u) bulk density of soil in area 2u * (Vs-2u) vol. of soil in area 2u * unit conversion factor (10^6 cm^3/1 m^3 * 1 kg/10^3 g)	kg		2.21E+05
(Vs-2u soil volume of area 2u	m^3	159	
(Bd-2u) bulk density of area 2u = (Pd-2u) particle density of area 2u - [Pd-2u * (Pt-2u) total porosity of area 2u]	g/cm^3		1.39

(Pd-2u) particle density of area 2u (use 2.65 as default)	g/cm^3	2.65	
(Pt-2u) total porosity of area 2u	cm^3/cm^3	0.475	
(Mass-3u) mass of contaminant in area 3u = (Ct-3u) concentration of contaminant in area 3u * (Smass-3u mass of soil in area 3u	mg		1.13E+06
(Ct-3u) concentration of contaminant in area 3u (INPUT 0 IF ONLY TWO AREAS OF SOIL MASS UNDER THE BUILDING ARE TO BE CALCULATED, OR IF ONLY THE CONTAMINANT MASS OUTSIDE OF THE BUILDING FOOTPRINT IS TO BE CALCULATED)	mg/kg	1.7	
Smass-3u = (Bd-3u) bulk density of soil in area 3u * (Vs-3u) vol. of soil in area 3u * unit conversion factor (10^6 cm/1 m^3 * 1 kg/10^3 g)	kg		6.64E+05
(Vs-3u) soil volume of area 3u	m^3	477	
(Bd-3u) bulk density of area 3u = (Pd-3u) particle density of area 3u - [Pd-3u * (Pt-3u) total porosity of area 3u]	g/cm^3		1.39
(Pd-3u) particle density of area 3u (use 2.65 as default)	g/cm^3	2.65	
(Pt-3u) total porosity of area 3u	cm^3/cm^3	0.475	

TOTAL CONTAMINANT MASS OUTSIDE OF BUILDING FOOTPRINT

Mass-os = Mass-1os + Mass-2os + Mass-3os + ...(Mass-nos)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND AREA SOIL VOLUMES MUST BE ACCCOMPLISHED PRIOR TO USING THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Mass-os) total mass of contaminant outside of building footprint = (Mass-1os) mass of contaminant in area 1 outside of building + (Mass-2os) mass in area 2os outside of building + (Mass-3os) mass in area 3os outside of building.	mg		0.00E+00
(Mass-1os) mass of contaminant in area 1os = (Ct-1os) concentration of contaminant in area 1os * (Smass-1os) mass of soil in area 1os	mg		0.00E+00
(Ct-1os) concentration of contaminant in area 1os (IF CONTAMINANT MASS OUTSIDE OF THE BUILDING FOOTPRINT IS NOT TO BE CALCULATED, INPUT 0)	mg/kg	0	
Smass-1os = (Bd-1os) bulk density of soil in area 1os * (Vs-1os) volume of soil in area 1os * unit conversion factor (10^6 cm^3/1m^3 * 1kg/10^3 g)	kg		0.00E+00

(Vs-1os) volume of soil in area 1os	m^3		
(Bd-1os) bulk density of area 1os = (Pd-1os) particle density of area 1os - [Pd-1os * (Pt-1os) total porosity of area 1os]	g/cm^3		2.65
(Pd-1os) particle density of area 1os (use 2.65 as default)	g/cm^3	2.65	
(Pt-1os) total porosity of area 1os	cm^3/cm^3		
(Mass-2os) mass of contaminant in area 2os = (Ct-2os) concentration of contaminant in area 2os * (Smass-2os) mass of soil in area 2os	mg		0.00E+00
(Ct-2os) concentration of contaminant in area 2os (IF CONTAMINANT MASS OUTSIDE OF THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF ONLY THE CONTAMINANT MASS FOR OUTSIDE AREA 1 IS TO BE CALCULATED, INPUT 1)	mg/kg	0	
Smass-2os = (Bd-2os) bulk density of soil in area 2os * (Vs-2os) volume of soil in area 2os * unit conversion factor (10^6 cm^3/1m^3 * 1kg/10^3 g)	kg		0.00E+00
(Vs-2os) volume of soil in area 2os	m^3	1	
(Bd-2os) bulk density of area 2os = (Pd-2os) particle density of area 2os - [Pd-2os * (Pt-2os) total porosity of area 2os]	g/cm^3		0
(Pd-2os) particle density of area 2os (use 2.65 as default)	g/cm^3	0	
(Pt-2uw) total porosity of area 2uw	cm^3/cm^3	1	
(Mass-3os) mass of contaminant in area 3os = (Ct-3os) concentration of contaminant in area 3os * (Smass-3os) mass of soil in area 3os	mg		0.00E+00
(Ct-3os) concentration of contaminant in area 3os (IF CONTAMINANT MASS OUTSIDE OF THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF THE CONTAMINANT MASS FOR ONLY TWO OUTSIDE AREAS IS TO BE CALCULATED, INPUT 0)	mg/kg	0	
Smass-3os = (Bd-3os) bulk density of soil in area 3os * (Vs-3os) volume of soil in area 3os * unit conversion factor (10^6 cm^3/1m^3 * 1kg/10^3 g)	kg		0.00E+00
(Vs-3os) volume of soil in area 3os	m^3	1	
(Bd-3os) bulk density of area 3os = (Pd-3os) particle density of area 3os - [Pd-3os * (Pt-3os) total porosity of area 3os]	g/cm^3		0
(Pd-3os) particle density of area 3os (use 2.65 as default)	g/cm^3	0	
(Pt-3os) total porosity of area 3os	cm^3/cm^3	0	

INTAKE (INHALATION) OF VAPOR PHASE

Intake = {[(Mass-os / u * h * W) + (Mass-u * b / V * E)] * IR * ET * EF * Unit Conversion Factor (years/sec)} / BW * AT

Variables	Units	Inputs	Outputs
(Mass-os) mass of contaminant entering building via the atmosphere which received the contaminant via diffusion from contaminated soil located outside of building footprint	mg		0.00E+00
(Mass-0.5os) mass of contamination directed under building by continuous surface paving from contaminated soil located outside building footprint (ENTER 1 IF PAVED AREA DIRECTS VAPORS BELOW BUILDING, OR 0 IF AREA NOT PAVED)	mg	0	0.00E+00
(u) mean wind speed	m/sec	2.25	1.00
(h) height of ambient air mixing zone (e.g. height of window or ventilation system intake)	m	3.40	1.00
(W) width of the building side that faces contamination outside of the building footprint	m	21.00	1.00
(Mass-u) total mass of contaminant under building	mg		8.33E+06
(b) attenuation factor (INPUT 1 IF THERE IS NO ATTENUATION)	dimensionless	1.00	
(V) volume of building	m^3	540.00	540.00
(E) exchange rate	bldg. vol./sec	5.56E-04	5.56E-04
(IR) daily intake rate (use ref. for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure freq. (use ref. for default value)	days/yr	250	
(BW) body weight (use ref. for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		1.03E-03

EXCESS LIFETIME RISK CALCULATION

EXCESS LIFETIME RISK = SLOPE FACTOR * UNITS OF EXPOSURE

carcinogenic slope factor (potency factor)	1/mg/kg/day	0.021	
units of exposure (from intake calculation above)	mg/kg/day		1.03E-03
excess lifetime cancer risk	dimensionless		2.16E-05

Consulting Environmental
Engineers and Geologists

CONVERSE ENVIRONMENTAL WEST

15245 Alton Parkway
Suite 100
Irvine, CA 92718-2307

714/453-2880
FAX 714/453-2888

February 7, 1997

Mr. Jack Enlow
c/o Rix Business Sales
354 Blue Cavern Point
Long Beach, California 90803

Subject: **Additional Site Investigation Report**
Crown Cleaners (existing dry cleaner facility)
18583 Brookhurst Street
Fountain Valley, California
Converse Project No. 96-42318-04

Dear Mr. Enlow:

Introduction

Converse Environmental West (Converse) is pleased to submit this report summarizing the findings from the additional field investigation work conducted at the Crown Cleaners site in Fountain Valley, CA. The work was conducted on January 14, 1997 and was performed in general accordance with our proposal dated December 30, 1996.

Background

As presented in our *Summary Report - Site Investigation Results*, dated August 6, 1996, tetrachloroethene (PCE) and trichloroethene (TCE) were detected in the subsurface soils near the existing dry cleaner equipment and outside the rear door of the facility. The Orange County Health Care Agency (County) reviewed the referenced report, and concluded that an excess lifetime cancer risk (ELCR) exists within the above referenced facility, as presented in their letter dated September 13, 1996. Based on the unacceptable ELCR, the County requested that additional soil sampling be conducted to delineate the outer boundary of the shallow (6 inches to 3.5 feet below grade) soil contamination. The County also required that a groundwater investigation be conducted to determine whether or not groundwater has been impacted (groundwater was encountered at a depth of 10 feet bgs during the prior investigation work).

At your request, Converse inquired with the County if any general assumptions were made in their determination of the ELCR. The County indicated that building dimensions were assumed and that soil samples collected from a depth of 2 feet were used to estimate the concentration of PCE which could exist at a depth of 0.5 feet. At your request, Converse conducted limited soil sampling to collect additional data so that the County could possibly re-evaluate the ELCR.

A Wholly Owned Subsidiary of
The Converse Professional Group

Field Investigation Work

On January 14, 1997, Converse performed the following services:

- Conducted soil sampling activities at two (2) locations (HA-2B and HA-5B) near the dry cleaning equipment. The locations were near prior borings HA-2 and HA-5, the area of highest detected PCE in soil. Soil samples were collected at a depth of 0.5 feet below ground surface (bgs) and field screened with an organic vapor analyzer.

- Measured the inside building dimensions.

- Submitted two (2) soil samples for chemical analyses in accordance with EPA Method 8010 for purgeable halocarbons (i.e. PCE and TCE).

Summary of Findings

Generally, the subsurface soils encountered consisted of sand (fill) just below the concrete floor to a depth of approximately 0.5 feet with a silty clay to a depth of approximately 1.0 feet bgs. Both PCE and TCE were reported in the subsurface soils at location HA-2B (20 ppm PCE, 0.071 ppm TCE). Only PCE was reported in the subsurface soils at location HA-5B (0.150 ppm PCE). The sample locations were in the area around the existing dry cleaner equipment. For investigation locations, see Figure No. 1. For analytical reports for the soil samples analyzed, see Appendix A.

The dry cleaner facility is rectangular shaped with dimensions of approximately 78 feet long, 22 feet wide, with a 12 foot high ceiling.

Conclusions

The results of the soil sampling and analysis program revealed the highest reported PCE concentration (20 ppm at location HA-2B at 0.5 feet bgs) of all of the areas investigated by Converse to-date. Prior to this investigation work, the previous high PCE concentration was 8.9 ppm at HA-2 at 2 feet bgs.

Recommendations

Based on the analytical results, Converse recommends that this Summary Report be submitted the Orange County Health Care Agency (County) and the Santa Ana Regional Water Quality Control Board (Board) for their review. Due to the elevated PCE concentrations reported during this study (compared to the prior analytical data presented in the August 1996 Converse report), Converse does not recommend that the County re-evaluate the public health excess lifetime cancer risk (ELCR) for this site. It is unlikely that the ELCR will be reduced to an acceptable level where increased PCE concentrations (compared to prior analytical data) were reported in the near surface soils.

Converse reminds you of the County letter dated September 13, 1996 which, based on the excess lifetime cancer risk above the maximum acceptable level, stated that additional soil sampling is necessary to delimit the outer boundary of the shallow (6 inches to 3.5 feet below grade) soil contamination. The County requested that upon completion of the additional investigation work that a Remedial Action Plan should be developed for their review and approval. The County also required that a groundwater investigation be conducted to determine whether or not groundwater has been impacted.

Converse recommends that additional soil investigation work and groundwater investigation work be conducted. Converse is prepared to discuss these recommendations with you so that a scope of work could be developed to collect the data that has been requested in the County's September 1996 letter.

Warranty and Limitations

The scope of work presented herein does not constitute a complete Phase I site assessment (ASTM 1527-94, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process). The findings presented herein are based on our evaluation of currently available data and were prepared in accordance with generally accepted environmental principles common to the local area in which we practice. We make no other warranty, either expressed or implied.

Converse is not responsible for the accuracy of the information provided by others. This report should not be regarded as a guarantee that no subsurface contamination is present beyond what has been disclosed. There may be subsurface conditions that cannot be reasonable predicted with the services performed to date.

We trust that this report meets your current needs. If you have any questions or comments relative to this report, please contact the undersigned at (714) 453-2880.

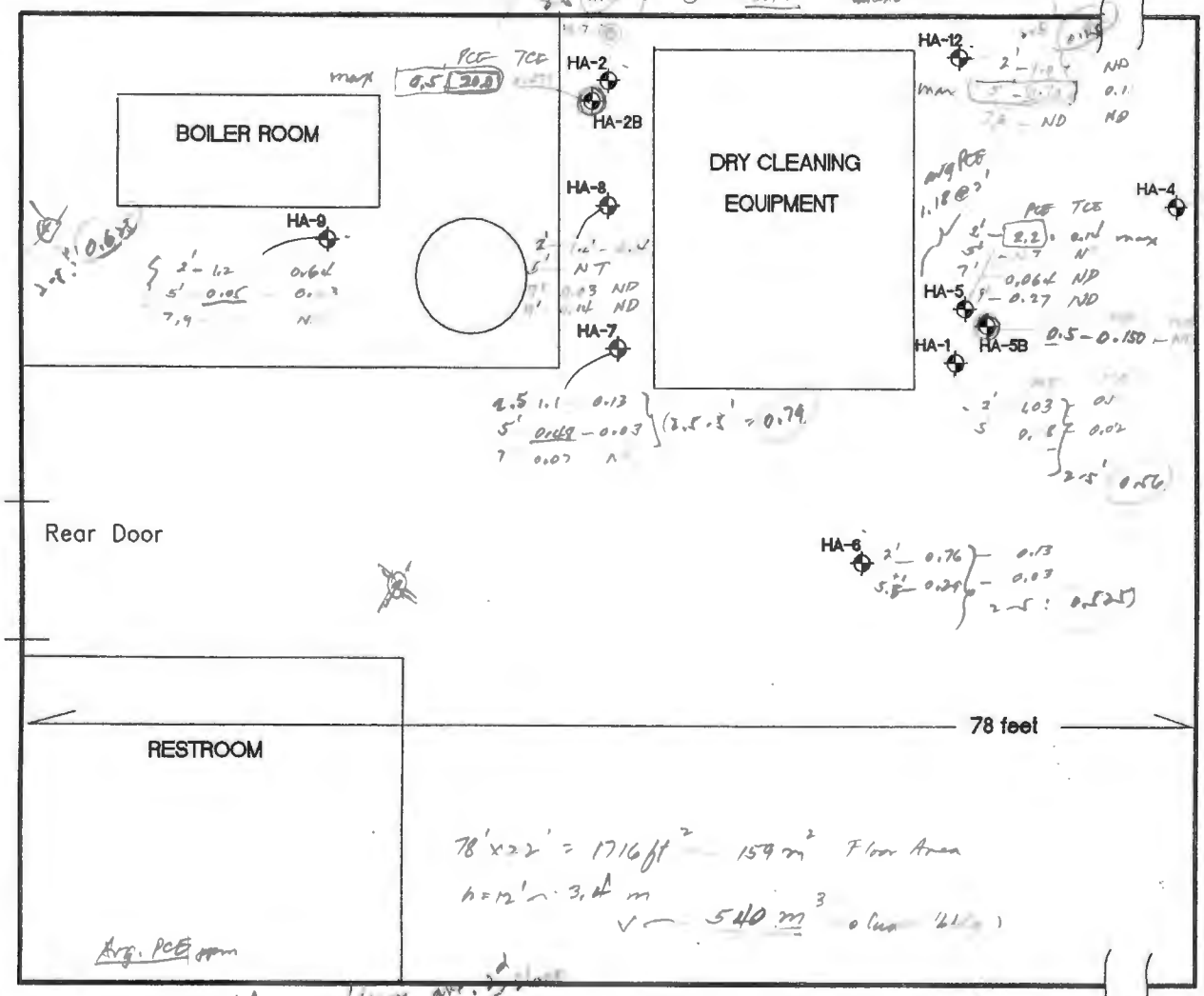
Sincerely,
CONVERSE ENVIRONMENTAL WEST

Henry B. Ames, R.G. 6304
Senior Geologist

Dist: 1/Addressee
1/ Mr. John O'Meara - Diversified Shopping Centers

Encl: Figure 1 - Site Plan
Appendix A - Analytical Report

SURGITEL



LEGEND:

HC-2 Approximate Location of Hand Auger/Boring Sampling Location.

N

0

4' 4'

SCALE IN FEET

SITE PLAN

CROWN CLEANERS
18583 Brookhurst Street
Fountain Valley, California

Converse Environmental West

Scale	AS SHOWN
Date	1-17-97
Prepared By	SSM
Checked By	JR
Approved By	HBA
Project No.	96-42318-04
Figure No.	1

APPENDIX A

Since 1878
Curtis & Tompkins, Ltd. General Analytical Laboratories
2495 Da Vinci, Irvine CA 92714 Phone 714-252-9700 Fax 714-252-9701

Laboratory Report

Laboratory Number: **215653**

Date Received: **01/14/97**

Date Reported: **01/28/97**

Issued To: **CONVERSE ENVIRONMENTAL WEST**
15245 ALTON PARKWAY
INVINE, CA 92718
Attn: **HENREY AMES**

Project I.D.: **96-42-318-04**

Location:

Report On: **Samples Analyzed As Specified On Attached Chain Of Custody**

This report certifies that the samples were received in good condition (i.e. intact, chilled, and/or preserved appropriately) and that strict chain of custody procedures were adhered to at all times. It further certifies that the methods of analysis used are in fact thosse listed within this report and that Curtis & Tompkins, Ltd. has current certification for all work performed in the laboratory. Exceptions to this statement are specifically noted in the analytical report or on the attached chain of custody.

Reviewed By: _____ _____

Berkeley *Irvine*

Volatile Organics by GC/MS

Client Sample ID:	HA-2B	Matrix:	Soil		
Client Project #:	96-42-318-04	Method:	EPA 8260	Date Sampled:	01/14/97
Project Location:		Extraction Method:	EPA 5030 Purge & Trap	Date Received:	01/14/97
Lab Sample ID:	215653-001	Instrument ID:	HP GC/MS #253	Date Extracted:	01/23/97
Lab SDG #:	215653			Date Analyzed:	01/23/97
				QC Batch ID:	14933DAM

Compound	Report Value ug/Kg	PQL	Blank Value ug/Kg	PQL
Bromodichloromethane	ND	25	ND	5.0
Bromoform	ND	25	ND	5.0
Bromomethane	ND	50	ND	10
Carbon tetrachloride	ND	25	ND	5.0
Chlorobenzene	ND	25	ND	5.0
Chloroethane	ND	50	ND	10
Chloroform	ND	25	ND	5.0
Chloromethane	ND	50	ND	10
Dibromochloromethane	ND	25	ND	5.0
1,2-Dichlorobenzene	ND	25	ND	5.0
1,3-Dichlorobenzene	ND	25	ND	5.0
1,4-Dichlorobenzene	ND	25	ND	5.0
Dichlorodifluoromethane	ND	50	ND	10
1,1-Dichloroethane	ND	25	ND	5.0
1,2-Dichloroethane	ND	25	ND	5.0
1,1-Dichloroethene	ND	25	ND	5.0
cis-1,2-Dichloroethene	ND	25	ND	5.0
trans-1,2-Dichloroethene	ND	25	ND	5.0
1,2-Dichloropropane	ND	25	ND	5.0
cis-1,3-Dichloropropene	ND	25	ND	5.0
trans-1,3-Dichloropropene	ND	25	ND	5.0
Freon 113	ND	25	ND	5.0
Methylene chloride	ND	25	ND	5.0
1,1,2,2-Tetrachloroethane	ND	25	ND	5.0
Tetrachloroethene	20,000	1,200	ND	5.0
1,1,1-Trichloroethane	ND	25	ND	5.0
1,1,2-Trichloroethane	ND	25	ND	5.0
Trichloroethene	71	25	ND	5.0
Trichlorofluoromethane	ND	25	ND	5.0
Vinyl chloride	ND	50	ND	10

Surrogate QC Information

Compound	Amt. ug/Kg	Sample %Rec.	Blank %Rec	Limits
Bromofluorobenzene	50	92	104	74-121

LCS and MS/MSD QC Information

Client Sample ID used for MS/MSD: 215653-002 HA-5B

Compound	Amt. ug/Kg	LCS %Rec.	LCS Limits	MS %Rec.	MSD %Rec.	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloroethene	25	86	80-120	97	85	59-172	13	22
Trichloroethene	25	93	80-120	96	82	62-137	16	24
Chlorobenzene	25	100	80-120	89	78	60-133	13	21

Volatile Organics by GC/MS

Client Sample ID:	HA-5B	Matrix:	Soil		
Client Project #:	96-42-318-04	Method:	EPA 8260	Date Sampled:	01/14/97
Project Location:		Extraction Method:	EPA 5030 Purge & Trap	Date Received:	01/14/97
Lab Sample ID:	215653-002	Instrument ID:	HP GC/MS #253	Date Extracted:	01/23/97
Lab SDG #:	215653			Date Analyzed:	01/23/97
				QC Batch ID:	14933DAM

Compound	Report Value ug/Kg	PQL	Blank Value ug/Kg	PQL
Bromodichloromethane	ND	5.0	ND	5.0
Bromoform	ND	5.0	ND	5.0
Bromomethane	ND	10	ND	10
Carbon tetrachloride	ND	5.0	ND	5.0
Chlorobenzene	ND	5.0	ND	5.0
Chloroethane	ND	10	ND	10
Chloroform	ND	5.0	ND	5.0
Chloromethane	ND	10	ND	10
Dibromochloromethane	ND	5.0	ND	5.0
1,2-Dichlorobenzene	ND	5.0	ND	5.0
1,3-Dichlorobenzene	ND	5.0	ND	5.0
1,4-Dichlorobenzene	ND	5.0	ND	5.0
Dichlorodifluoromethane	ND	10	ND	10
1,1-Dichloroethane	ND	5.0	ND	5.0
1,2-Dichloroethane	ND	5.0	ND	5.0
1,1-Dichloroethene	ND	5.0	ND	5.0
cis-1,2-Dichloroethene	ND	5.0	ND	5.0
trans-1,2-Dichloroethene	ND	5.0	ND	5.0
1,2-Dichloropropane	ND	5.0	ND	5.0
cis-1,3-Dichloropropene	ND	5.0	ND	5.0
trans-1,3-Dichloropropene	ND	5.0	ND	5.0
Freon 113	ND	5.0	ND	5.0
Methylene chloride	ND	5.0	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0	ND	5.0
Tetrachloroethene	150	5.0	ND	5.0
1,1,1-Trichloroethane	ND	5.0	ND	5.0
1,1,2-Trichloroethane	ND	5.0	ND	5.0
Trichloroethene	ND	5.0	ND	5.0
Trichlorofluoromethane	ND	5.0	ND	5.0
Vinyl chloride	ND	10	ND	10

Surrogate QC Information

Compound	Amt. ug/Kg	Sample %Rec.	Blank %Rec	Limits
Bromofluorobenzene	50	98	104	74-121

LCS and MS/MSD QC Information

Client Sample ID used for MS/MSD: 215653-002 HA-5B

Compound	Amt. ug/Kg	LCS %Rec.	LCS Limits	MS %Rec.	MSD %Rec.	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloroethene	25	86	80-120	97	85	59-172	13	22
Trichloroethene	25	93	80-120	96	82	62-137	16	24
Chlorobenzene	25	100	80-120	89	78	60-133	13	21

ABBREVIATIONS

BS/BSD - Blank Spike / Blank Spike Duplicate

BTEX - Benzene, Toluene, Ethyl Benzene, and Total Xylenes

CCR - California Code of Regulations

DHS - California Department of Health Services

EPA - United States Environmental Protection Agency

J - Estimated value between the MDL and PQL

LCS - Laboratory Control Spike

LUFT - Leaking Underground Fuel Tank

MDL - Method Detection Limit

NA - Not Applicable

NC - Not Calculable

ND - Not Detected at or above the defined detection limit

P - Sample hydrocarbon pattern does not match fuel standard pattern

PQL - Practical Quantitation Limit

RPD - Relative percent difference

STLC - Soluble Threshold Limit Concentration

Surr. - Surrogates

TCLP - Toxicity Characteristic Leaching Procedure

TEH - Total Extractable Petroleum Hydrocarbons

Title 26 - Title 26 of the California Code of Regulations (CCR)

TR~ - Trace, estimated value

TTLC - Total Threshold Limit Concentration

TVH - Total Volitile Hydrocarbons

WET - Waste Extraction Test

UNITS

cm3 - Cubic centimeter
Kg - kilogram.
L - Liter.
mg - Milligrams.
M3 - Cubic meter.

1umhos/cm - uS/cm - Micro Siemens/centimeter
ppb - Parts per billion.
ppm - Parts per million.
ug - Micrograms.
ppbv - Parts per billion per unit volume

Curtis & Tompkins, Ltd. General Analytical Laboratories
2495 Da Vinci, Irvine, CA 92714 Phone (714)252-9700 Fax (714)252-9701

SHEET ____ OF ____

CHAIN-OF-CUSTODY RECORD

Sample ID	Depth	Date	Time	Sample Type	Container Type	Total Number Of Containers	ANALYSES 601/8010	602/8020	BTEX	8015 (TVH)	8015 (TEH)	418.1	413.1	413.2	608/8080	PCB'S Only	624/8240	625/8270	TITLE 26 Metals	RCRA Metals	WetExtraction	TCLP Extraction	ZHE Extraction	8260
HA-2B	0.5'	1-14		Soil	Brass	1	X																	
HA-5B	0.5'	1-14		Soil	Brass	1	X																	

LAB# ____ Field Notes: ____

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Steve Moffett	1-14 4:10pm	Mike C	1-14-97 1610
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time

LABORATORY NOTES:

DATE DATA NEEDED BY:

All samples will be disposed of 30 days after invoice unless specified on chain of custody - write "archive for _____ days" by any sample to be archived.

$5 / sample / month will be charged

SEND ANALYTICAL REPORT TO: Henry Ames
COMPANY: Converse Consultants
ADDRESS: 15245 Alton Pkwy #100
CITY: Irvine STATE: CA ZIP CODE: 92716
PHONE NUMBER: 714-453-2080 FAX NUMBER: 2888
PROJECT MANAGER: HBA

CLIENT JOB I.D.: ____
CLIENT P.O. NO.: 96-42718-04 C&T QUOTE NO.: ____
SAMPLING LOCATION: H.B.
COLLECTOR: Steve Moffett

RECEIVED
FEB 2 1 1997
HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH

Transmittal

Converse Consultants
Orange County

Consulting Engineering
and Applied Sciences

15245 Alton Parkway
Suite 100
Irvine, CA 92718-2307
Telephone 714/453-2880
Facsimile 714/453-2888

Date: February 21, 1997

Project: 96-42318-04

To: Orange County Health Care Agency
2009 E. Edinger
Santa Ana, CA

Attention: Luis Rodriguez

We are sending you the following

- [x] Enclosed
- [ ] Separately

- [ ] Regular Mail
- [ ] Special Delivery
- [ ] Air Mail
- [ ] Express Mail
- [x] Carrier
- [ ] Other:

Quantity	Description
1	Additional Site Investigation Report, Feb. 7, 1997 Crown Cleaners 18583 Brookhurst St. Fountain Valley, CA.

Remarks: Please review potential exposure concerns in light of the additional data presented in the enclosed report.

Copies To:
1/ Mr. Robin Rix -
1/ Mr. John O'Meara - Diversified Shopping Centers

Sent By:

RECEIVED
FEB 2 1 1997
HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH

SIMPLIFIED VAPOR PATHWAY EVALUATION AND INCREASED CANCER RISK ASSESSMENT CALCULATIONS

SITE: Crown Cleaners	REVISED 7/96		
SITE CONTAMINANT: PCE 8.9 - 0.5'	DATE: 9/13/96		
ANALYSIS BY: Luis Lodrigueza	Silty clay		

SOIL PORE WATER

Soil gas concentration (Csg) = [Contaminant concentration in soil (Ct) / Wet weight soil moisture content (Mwet)] * Henry's Law constant (H)
(Note: When multiple soil layers are used in the flux calculation, be sure the soil characteristic values that are used below are from layer in which the contaminant (source) is located)

Variables	Units	Inputs	Outputs
(Ct) Contaminant conc. in soil (IF NOT USING THE SOIL PORE WATER COMPONENT, INPUT 0)	mg/kg	8.9	
Calculated wet weight soil moisture content (Mwet) = Mdry / 1 + Mdry	gram/gram		2.19E-01
Mwet (Site specific data) (INPUT 0 IF NOT USING)	gram/gram	0	
(H) Henry's Law Constant	Dimensionless	0.943	
Calculated soil moisture by dry weight (Mdry) = Soil moisture by volume (Pw) / Bulk density (Bd)	gram/gram		2.80E-01
Mdry (Site specific data)(INPUT 0 IF NOT USING)	gram/gram	0	
(Pw) Soil moisture by volume, (Use ref. for default value.) (Note: 1 cm^3 water = 1 gram water)	cm^3/cm^3	0.387	
Bulk density (Bd) = Particle density (Pd) - [Pd * Total porosity (Pt)].	g/cm^3		1.38E+00
(Pd) Particle density (Use 2.65 as default value)	g/cm^3	2.65	
(Pt) Total porosity (Use ref. for default values)	cm^3/cm^3	0.479	
Calculated soil gas level	mg/l		3.83E+01
Calculated soil gas level	mg/cm^3		3.83E-02

DISSOLVED IN GROUNDWATER

Soil gas concentration (Csg) = Concentration in groundwater (Cw) * Henry's Law constant (H)

Variables	Units	Inputs	Outputs
(Cw) Conc. in GW (IF NOT USING DISSOLVED IN GROUNDWATER COMPONENT, INPUT 0.)	PPM	0	
(H) Henry's Law constant	dimensionless	0.225	
Calculated soil gas level	mg/cm^3		0.00E+00

DIRECT MEASUREMENT OF SOIL GAS

Variables	Units	Inputs	Outputs
(Csg) Contaminant soil gas conc. (IF NOT USING DIRECT MEASUREMENT COMPONENT, INPUT 0.)	mg/m^3	0.00E+00	
Spreadsheet unit conversion to mg/cm^3	mg/cm^3		0.00E+00

LIQUID PHASE CONTAMINANT

Conc. of soil gas (Csg) = Vapor pressure (VP)* Mol. Wt. (MW) * Mole fraction (MF) / Universal gas constant (R) * Absolute Temp. (T)

Variables	Units	Inputs	Outputs
(VP) Vapor pressure at 20° C (IF NOT USING THE FREE PRODUCT COMPONENT, INPUT 0)	atm	0	
(MW) Molecular weight	mg/mole		
(MF) Mole fraction	dimensionless		
(R) Universal gas constant	cc-atm/mole-°k	8.21E+01	
(T) Absolute temperature	°K		
Calculated soil gas level	mg/cm^3		0.00E+00

FLUX

Flux (F) = Measured or calculated soil gas level (Csg) / [Vertical length of soil layer between source and surface (or next soil layer that has a dissimilar vapor permeability) (L1) / Diffusion coefficient for soil layer (De1)]+(L2/De2)+...(Ln/Den) (NOTE: If flux for outdoor conc. (Fo) is expected to differ from indoor flux, first calc. outdoor flux and enter results below in outdoor component section, then come back and calc. indoor flux.)

Variables	Units	Inputs	Outputs
(Csg) Soil gas level (Note: Program selected the lowest non-zero Csg from spread sheet for use)	mg/cm^3		3.83E-02
(L1) Vertical length of 1st soil layer between source and surface. INPUT HERE IF 1 LAYER ONLY IN USE.	cm	15	
(L2) Vertical length of 2nd soil layer. (IF ONLY ONE SOIL LAYER IS CONSIDERED, INPUT 0.)	cm	0	
(L3) Vertical length of 3rd soil layer. (IF ONLY TWO SOIL LAYERS ARE TO BE CONSIDERED, INPUT 0.)	cm	0	
(De1) Effective diffusion coefficient layer 1 = Diff. coefficient in air (Da) * (Air filled porosity layer 1 (Pa1)^3.33 / Total porosity layer 1 (Pt1)^2)	cm^2/sec		1.11E-04
(Da) Diffusion coefficient in air (Use ref for default)	cm^2/sec	0.072	
(Pa1) Air filled porosity, layer 1 = (Pt1) Total porosity layer1-(Pw1) soil moisture by vol. layer 1	dimensionless		9.20E-02
(Pt1) Total porosity layer 1 (Use ref for default)	cm^3/cm^3	0.479	
(Pw1) Soil moisture by volume, layer 1 (Use reference for default value)	cm^3/cm^3	0.387	
De2 = Da * (Pa2^3.33 / Pt2^2)	cm^2/sec		0.00E+00
Pa2 = Pt2 - Pw2	dimensionless		0.00E+00
Pt2 (Use ref. for default value) (IF ONLY ONE SOIL LAYER IS CONSIDERED, INPUT 1.)	dimensionless	1	
Pw2 (Use ref. for default value) (IF ONLY ONE SOIL LAYER IS CONSIDERED, INPUT 1.)	cm^3/cm^3	1	
De3 = Da * (Pa3^3.33 / Pt3^2)	cm^2/sec		0.00E+00
Pa3 = Pt3 - Pw3	dimensionless		0.00E+00
Pt3 (Use ref. for default value) (IF ONLY ONE OR TWO SOIL LAYERS ARE TO BE CONSIDERED, INPUT 1)	dimensionless	1	
Pw3 (Use ref. for default value)(IF ONLY ONE OR TWO SOIL LAYERS ARE TO BE CONSIDERED, INPUT 1)	cm^3/cm^3	1	
(F) Flux (includes converion to m^2)	mg/sec-m^2		2.84E-03

OUTDOOR AIR COMPONENT

Concentration in outdoor air (Co) = [Outdoor flux (Fo) * Downwind length of contamination (Ld)] / [Wind speed (u) * Height of box (h), e.g., height of doorway or ventilation system intake.](See note in Flux Section regarding Fo)

ENTER 0 IF OUTDOOR AIR COMPONENT IS NOT TO BE USED, 1 IF USED AND Fo = Fi. WHEN Fo ≠ Fi, ENTER CALCULATED Fo. WHEN CALC. Fo ONLY, ENTER 1.	mg/sec-m^2	0	
ENTER 1 IF Fo ≠ Fi, OR 2 IF Fo = Fi, OR CALC. Fo.	mg/sec-m^2	2	2.84E-03
(Ld) Down wind length of contamination	m	1.524	
(u) Wind speed	m/sec	0.013883	
(h) Height of box	m	2.44	
(Co) Concentration in outdoor air	mg/m^3		0.00E+00

CONCENTRATION IN INDOOR AIR

Total conc. in indoor air (Ci) = Conc. in outdoor air (Co)+[Foundation attenuation factor (b) * Flux for area under building (Fu) * Area through which flux occurs (A)] / [Vol. of building (V) * Air exchange rate (E)]

Variables	Units	Inputs	Outputs
(Co) Concentration. in outdoor air	mg/m^3		0.00E+00
(b) Attenuation factor. INPUT 0 IF CALC. Fo ONLY	dimensionless	0.001	
(Fu) Flux for area under building	mg/sec-m^2		2.84E-03
(A) Area through which flux occurs under building	m^2	75	
(V) Volume of building. (INPUT 1 IF CALC. Fo ONLY)	m^3	546	
(E) Exchange rate. (INPUT 1 IF CALC. Fo ONLY)	bldg. vol./sec	1.39E-04	
(Ci) Total indoor air contaminant concentration	mg/m^3		2.81E-03

INTAKE (INHALATION) OF VAPOR PHASE

Intake = Indoor contaminant conc. (Ci) * Daily intake rate (IR) * Exposure time (ET) * Exposure freq. (EF) * Exposure duration (ED)/ Body weight (BW) * Averaging time (AT)

Variables	Units	Inputs	Outputs
ENTER 0 IF SOURCE IS UNDER BUILDING; ENTER 1 IF PAVED AREA DIRECTS VAPORS UNDER BUILDING.	dimensionless	0	
(Ci) Total indoor air contaminant concentration	mg/m^3		2.81E-03
(IR) Daily intake rate (Use ref. for default value)	m^3/day	20	
(ET) Exposure time	hrs/24 hrs	10	4.17E-01
(EF) Exposure freq. (Use ref. for default value)	days/yr	250	
(ED) Exposure duration (Use ref. for default value)	yrs	25	
(BW) Body weight (Use ref. for default value)	kg	70	
(AT) Averaging time	days	2.55E+04	
Intake	mg/kg-day		8.19E-05

EXCESS LIFETIME RISK CALCULATION

EXCESS LIFETIME RISK = SLOPE FACTOR * UNITS OF EXPOSURE

Variables	Units	Inputs	Outputs
Carcinogenic slope factor (Potency factor)	1/mg/kg/day	0.021	
Units of exposure (From Intake calculation above)	mg/kg/day		8.19E-05
Excess Lifetime Cancer Risk	dimensionless		1.72E-06

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

TOM URAM
DIRECTOR

HUGH F. STALLWORTH, M.D.
HEALTH OFFICER

ROBERT E. MERRYMAN, REHS, MPH
DEPUTY DIRECTOR

MAILING ADDRESS:
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720

TELEPHONE: (714) 667-3600
FAX: (714) 972-0749

September 13, 1996

Jack Enlow
c/o Robin Rix
Rix Business Sales
354 Blue Cavern Point
Long Beach, CA90803

Subject: Site Assessment Report

Re: Crown Cleaners
18583 Brookhurst Street
Valley View, CA 92708
O.C.H.C.A. Case # 96IC31

Dear Mr. Enlow:

Please be advised that this Agency has reviewed the subject report prepared by the lessor's consultant, Converse Environmental West, and found it acceptable to generally characterize the nature and extent of soil contamination at the above-referenced site.

A vapor risk assessment using this Agency's vapor diffusion model, and the maximum PCE and TCE concentrations detected within the above-referenced facility, shows an excess lifetime cancer risk above the maximum acceptable level of 1.0 E-06. Remediation of the highly impacted section of the facility--specifically the immediate vicinity of the dry cleaning equipment--is therefore indicated, to remove potential threat to both human health and water quality. Additional sampling is necessary, however, in order to delimit the outer boundary of the shallow (6 inches to 3.5 feet below grade) soil contamination in this area. A Remedial Action Plan should thereafter be submitted for Agency review and approval.

Furthermore, groundwater investigation has to be conducted to determine whether or not groundwater has been impacted.

If you have any questions regarding this, please contact me at (714) 667-3717.

Sincerely,

Luis Lodrigueza
Hazardous Waste Specialist[
Hazardous Materials Management Section
Environmental Health Division

cc: Kamron Saremi, Santa Ana Regional Water Quality Control Board
Henry B. Ames, Converse Environmental West
William J. Diekmann, O.C. Supervising Hazardous Waste Specialist

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH
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MAILING ADDRESS:
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SANTA ANA, CA 92705-4720

TELEPHONE: (714) 667-3600
FAX: (714) 972-0749

September 12, 1996

Jack Enlow
c/o Robin Rix
Rix Business Sales
354 Blue Cavern Point
Long Beach, CA 90803

Subject: **Request for Oversight**

Re: Crown Cleaners
18583 Brookhurst Street
Fountain Valley, CA 92708
O.C.H.C.A. Case # 96IC31

Dear Mr. Enlow:

Based on evidence received by this Agency, it has been determined that a release of perchloroethylene (PCE) and trichloroethylene (TCE) to soil and possibly groundwater has occurred at the location referenced above. According to our records, you or the company you represent has been identified as responsible for this release. Due to concerns that this release may represent a public health or environmental hazard, a site investigation to assess the extent and significance of this release was initiated by Converse Environmental West, and the report on the results of the investigation will be reviewed by this Agency for appropriate action.

The documentation of this release has become a part of this Agency's records, and as such is now part of the public record. Be advised that in addition to local, state and federal hazardous substance release reporting requirements, any owner of nonresidential real property who knows, or has reasonable cause to believe, that any release of a hazardous substance has come to be located on or beneath that real property shall, prior to sale, lease, or rental of the real property, give written notice of that condition to each buyer, lessee, or renter of the real property. (California Health and Safety Code [H&SC], Division 20, Chapter 6.8, Section 25359.7[a]). Also any lessee or renter of real property who knows or has reasonable cause to believe that any release of a hazardous substance has come or will come to be located on or beneath that real property shall, following its discovery, give written notice of that condition to the owner of the real property or the lessor. (H&SC 25359.7[b]).

This Agency will provide governmental oversight at contaminated sites where State or Federal law does not require oversight by another governmental agency, or where an order to investigate or remediate a site has not already been issued by an empowered State or Federal Agency. You may elect to have this Agency provide oversight at the above referenced site to satisfy possible city or county land use concerns; lender, buyer, lessee, or renter concerns; or your own concerns. Upon the satisfactory completion of a site investigation and any necessary soil remediation, this Agency will write a letter of completion. Where the site investigation reveals a possible threat to groundwater resources, your site will be referred to the appropriate Regional Water Quality Control Board (RWQCB) for review. When

the RWQCB requires soil remedial action you will be requested to submit remedial action plans to both Agencies for review and concurrence.

You may also request governmental oversight from the California's Environmental Protection Agency, Department of Toxic Substances Control (DTSC). This Agency may request that the DTSC review case documentation for the purpose of determining whether mandatory case oversight will be required, when the responsible party does not request voluntary governmental case oversight.

If you choose to seek oversight from this Agency of this site, a per hour service fee will be assessed for the actual time Health Care Agency (HCA) staff expend in overseeing the site investigation and remediation. Per resolution of the County Board of Supervisors, the current site cleanup oversight fee is $123 per hour.

If after considering the above you choose to have this Agency oversee the site investigation and remediation, submit a letter to this office requesting this Agency's oversight and acknowledging that a fee will be charged. Include the name and address of the person to whom Agency bills will be sent.

All required permits must be obtained prior to beginning exploratory borings and construction of wells. All borings and abandoned wells must be properly sealed. Wells should be secured to prevent unauthorized access. For further information regarding required well permits and well abandonment, call (714) 667-3750. Drilling procedures, well design and construction. Design and procedures should be developed by a registered professional (R.G., C.E.G., R.C.E., or equivalent) with expertise in subsurface investigations. Reports that include logs of soil borings or any findings or conclusions relating to subsurface information must be signed by a properly registered professional (R.G., C.E.G., or equivalent).

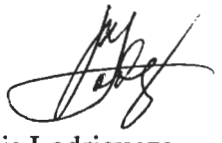
The following should help guide you through this oversight process:

Site assessment can begin as soon as possible after review and concurrence of the workplan by HCA staff. Be sure to notify this office 48 hours in advance of any site sampling activity.

The next step after completion of the site investigation, is the submittal of a report to HCA for review and concurrence which outlines the findings of the site investigation and presents a proposed remedial action plan. The remedial action plan should be implemented as soon as possible after review and concurrence by HCA staff. After the remedial action plan has been fully implemented, remediation completion will be determined by site sampling overseen by HCA staff.

If you have any questions regarding this matter, please contact me at (714) 667-3717.

Very truly yours,



Luis Lodrigueza
Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division

cc: Robert Holub, Santa Ana Regional Water Quality Control Board
Greg Holmes, Cleanup Operations, Southern California Branch, DTSC
Henry B. Ames, Converse Environmental West
William J. Diekmann, O. C. Supervising Hazardous Waste Specialist

SIMPLIFIED VAPOR PATHWAY EVALUATION AND INCREASED CANCER RISK ASSESSMENT CALCULATIONS

SITE: Crown Cleaners	REVISED 7/96
SITE CONTAMINANT: PCE 8.9 - 2'	DATE: 9/13/96
ANALYSIS BY: Luis Lodrigueza	Silty clay

SOIL PORE WATER

Soil gas concentration (Csg) = [Contaminant concentration in soil (Ct) / Wet weight soil moisture content (Mwet)] * Henry's Law constant (H)
(Note: When multiple soil layers are used in the flux calculation, be sure the soil characteristic values that are used below are from layer in which the contaminant (source) is located)

Variables	Units	Inputs	Outputs
(Ct) Contaminant conc. in soil (IF NOT USING THE SOIL PORE WATER COMPONENT, INPUT 0)	mg/kg	8.9	
Calculated wet weight soil moisture content (Mwet) = Mdry / 1 + Mdry	gram/gram		2.19E-01
Mwet (Site specific data) (INPUT 0 IF NOT USING)	gram/gram	0	
(H) Henry's Law Constant	Dimensionless	0.943	
Calculated soil moisture by dry weight (Mdry) = Soil moisture by volume (Pw) / Bulk density (Bd)	gram/gram		2.80E-01
Mdry (Site specific data)(INPUT 0 IF NOT USING)	gram/gram	0	
(Pw) Soil moisture by volume, (Use ref. for default value.) (Note: 1 cm^3 water = 1 gram water)	cm^3/cm^3	0.387	
Bulk density (Bd) = Particle density (Pd) - [Pd * Total porosity (Pt)].	g/cm^3		1.38E+00
(Pd) Particle density (Use 2.65 as default value)	g/cm^3	2.65	
(Pt) Total porosity (Use ref. for default values)	cm^3/cm^3	0.479	
Calculated soil gas level	mg/l		3.83E+01
Calculated soil gas level	mg/cm^3		3.83E-02

DISSOLVED IN GROUNDWATER

Soil gas concentration (Csg) = Concentration in groundwater (Cw) * Henry's Law constant (H)

Variables	Units	Inputs	Outputs
(Cw) Conc. in GW (IF NOT USING DISSOLVED IN GROUNDWATER COMPONENT, INPUT 0.)	PPM	0	
(H) Henry's Law constant	dimensionless	0.225	
Calculated soil gas level	mg/cm^3		0.00E+00

DIRECT MEASUREMENT OF SOIL GAS

Variables	Units	Inputs	Outputs
(Csg) Contaminant soil gas conc. (IF NOT USING DIRECT MEASUREMENT COMPONENT, INPUT 0.)	mg/m^3	0.00E+00	
Spreadsheet unit conversion to mg/cm^3	mg/cm^3		0.00E+00

LIQUID PHASE CONTAMINANT

Conc. of soil gas (Csg) = Vapor pressure (VP)* Mol. Wt. (MW) * Mole fraction (MF) / Universal gas constant (R) * Absolute Temp. (T)

Variables	Units	Inputs	Outputs
(VP) Vapor pressure at 20° C (IF NOT USING THE FREE PRODUCT COMPONENT, INPUT 0)	atm	0	
(MW) Molecular weight	mg/mole		
(MF) Mole fraction	dimensionless		
(R) Universal gas constant	cc-atm/mole-°k	8.21E+01	
(T) Absolute temperature	°K		
Calculated soil gas level	mg/cm^3		0.00E+00

FLUX

Flux (F) = Measured or calculated soil gas level (Csg) / [Vertical length of soil layer between source and surface (or next soil layer that has a dissimilar vapor permeability) (L1) / Diffusion coefficient for soil layer (De1)]+(L2/De2)+...(Ln/Den) (NOTE: If flux for outdoor conc. (Fo) is expected to differ from indoor flux, first calc. outdoor flux and enter results below in outdoor component section, then come back and calc. indoor flux.)

Variables	Units	Inputs	Outputs
(Csg) Soil gas level (Note: Program selected the lowest non-zero Csg from spread sheet for use)	mg/cm^3		3.83E-02
(L1) Vertical length of 1st soil layer between source and surface. INPUT HERE IF 1 LAYER ONLY IN USE.	cm	61	
(L2) Vertical length of 2nd soil layer. (IF ONLY ONE SOIL LAYER IS CONSIDERED, INPUT 0.)	cm	0	
(L3) Vertical length of 3rd soil layer. (IF ONLY TWO SOIL LAYERS ARE TO BE CONSIDERED, INPUT 0.)	cm	0	
(De1) Effective diffusion coefficient layer 1 = Diff. coefficient in air (Da) * (Air filled porosity layer 1 (Pa1)^3.33 / Total porosity layer 1 (Pt1)^2)	cm^2/sec		1.11E-04
(Da) Diffusion coefficient in air (Use ref for default)	cm^2/sec	0.072	
(Pa1) Air filled porosity, layer 1 = (Pt1) Total porosity layer1-(Pw1) soil moisture by vol. layer 1	dimensionless		9.20E-02
(Pt1) Total porosity layer 1 (Use ref for default)	cm^3/cm^3	0.479	
(Pw1) Soil moisture by volume, layer 1 (Use reference for default value)	cm^3/cm^3	0.387	
De2 = Da * (Pa2^3.33 / Pt2^2)	cm^2/sec		0.00E+00
Pa2 = Pt2 - Pw2	dimensionless		0.00E+00
Pt2 (Use ref. for default value) (IF ONLY ONE SOIL LAYER IS CONSIDERED, INPUT 1.)	dimensionless	1	
Pw2 (Use ref. for default value) (IF ONLY ONE SOIL LAYER IS CONSIDERED, INPUT 1.)	cm^3/cm^3	1	
De3 = Da * (Pa3^3.33 / Pt3^2)	cm^2/sec		0.00E+00
Pa3 = Pt3 - Pw3	dimensionless		0.00E+00
Pt3 (Use ref. for default value) (IF ONLY ONE OR TWO SOIL LAYERS ARE TO BE CONSIDERED, INPUT 1)	dimensionless	1	
Pw3 (Use ref. for default value)(IF ONLY ONE OR TWO SOIL LAYERS ARE TO BE CONSIDERED, INPUT 1)	cm^3/cm^3	1	
(F) Flux (includes converion to m^2)	mg/sec-m^2		6.99E-04

OUTDOOR AIR COMPONENT

Concentration in outdoor air (Co) = [Outdoor flux (Fo) * Downwind length of contamination (Ld)] / [Wind speed (u) * Height of box (h), e.g., height of doorway or ventilation system intake.](See note in Flux Section regarding Fo)

ENTER 0 IF OUTDOOR AIR COMPONENT IS NOT TO BE USED, 1 IF USED AND Fo = Fi. WHEN Fo ≠ Fi, ENTER CALCULATED Fo. WHEN CALC. Fo ONLY, ENTER 1.	mg/sec-m^2	0	
ENTER 1 IF Fo ≠ Fi, OR 2 IF Fo = Fi, OR CALC. Fo.	mg/sec-m^2	2	6.99E-04
(Ld) Down wind length of contamination	m	1.524	
(u) Wind speed	m/sec	0.013883	
(h) Height of box	m	2.44	
(Co) Concentration in outdoor air	mg/m^3		0.00E+00

CONCENTRATION IN INDOOR AIR

Total conc. in indoor air (Ci) = Conc. in outdoor air (Co)+[Foundation attenuation factor (b) * Flux for area under building (Fu) * Area through which flux occurs (A)] / [Vol. of building (V) * Air exchange rate (E)]

Variables	Units	Inputs	Outputs
(Co) Concentration. in outdoor air	mg/m^3		0.00E+00
(b) Attenuation factor. INPUT 0 IF CALC. Fo ONLY	dimensionless	0.001	
(Fu) Flux for area under building	mg/sec-m^2		6.99E-04
(A) Area through which flux occurs under building	m^2	75	
(V) Volume of building. (INPUT 1 IF CALC. Fo ONLY)	m^3	178	
(E) Exchange rate. (INPUT 1 IF CALC. Fo ONLY)	bldg. vol./sec	1.39E-04	
(Ci) Total indoor air contaminant concentration	mg/m^3		2.12E-03

INTAKE (INHALATION) OF VAPOR PHASE

Intake = Indoor contaminant conc. (Ci) * Daily intake rate (IR) * Exposure time (ET) * Exposure freq. (EF) * Exposure duration (ED)/ Body weight (BW) * Averaging time (AT)

Variables	Units	Inputs	Outputs
ENTER 0 IF SOURCE IS UNDER BUILDING; ENTER 1 IF PAVED AREA DIRECTS VAPORS UNDER BUILDING.	dimensionless	0	
(Ci) Total indoor air contaminant concentration	mg/m^3		2.12E-03
(IR) Daily intake rate (Use ref. for default value)	m^3/day	20	
(ET) Exposure time	hrs/24 hrs	10	4.17E-01
(EF) Exposure freq. (Use ref. for default value)	days/yr	250	
(ED) Exposure duration (Use ref. for default value)	yrs	25	
(BW) Body weight (Use ref. for default value)	kg	70	
(AT) Averaging time	days	2.55E+04	
Intake	mg/kg-day		6.18E-05

EXCESS LIFETIME RISK CALCULATION

EXCESS LIFETIME RISK = SLOPE FACTOR * UNITS OF EXPOSURE

Variables	Units	Inputs	Outputs
Carcinogenic slope factor (Potency factor)	1/mg/kg/day	0.021	
Units of exposure (From Intake calculation above)	mg/kg/day		6.18E-05
Excess Lifetime Cancer Risk	dimensionless		1.30E-06

SIMPLIFIED VAPOR PATHWAY EVALUATION AND INCREASED CANCER RISK ASSESSMENT CALCULATIONS

SITE: ~~Snow White Clnrs~~ Crown Cleaners	REVISED 7/96
SITE CONTAMINANT: TCE 0.64 - 2'	DATE: 9/13/96
ANALYSIS BY: Luis Lodrigueza	RUN #: Sil clay

SOIL PORE WATER

Soil gas concentration (Csg) = [Contaminant concentration in soil (Ct) / Wet weight soil moisture content (Mwet)] * Henry's Law constant (H)
(Note: When multiple soil layers are used in the flux calculation, be sure the soil characteristic values that are used below are from layer in which the contaminant (source) is located)

Variables	Units	Inputs	Outputs
(Ct) Contaminant conc. in soil (IF NOT USING THE SOIL PORE WATER COMPONENT, INPUT 0)	mg/kg	0.64	
Calculated wet weight soil moisture content (Mwet) = Mdry / 1 + Mdry	gram/gram		2.19E-01
Mwet (Site specific data) (INPUT 0 IF NOT USING)	gram/gram	0	
(H) Henry's Law Constant	Dimensionless	0.3657	
Calculated soil moisture by dry weight (Mdry) = Soil moisture by volume (Pw) / Bulk density (Bd)	gram/gram		2.80E-01
Mdry (Site specific data)(INPUT 0 IF NOT USING)	gram/gram	0	
(Pw) Soil moisture by volume, (Use ref. for default value.) (Note: 1 cm^3 water = 1 gram water)	cm^3/cm^3	0.387	
Bulk density (Bd) = Particle density (Pd) - [Pd * Total porosity (Pt)].	g/cm^3		1.38E+00
(Pd) Particle density (Use 2.65 as default value)	g/cm^3	2.65	
(Pt) Total porosity (Use ref. for default values)	cm^3/cm^3	0.479	
Calculated soil gas level	mg/l		1.07E+00
Calculated soil gas level	mg/cm^3		1.07E-03

DISSOLVED IN GROUNDWATER

Soil gas concentration (Csg) = Concentration in groundwater (Cw) * Henry's Law constant (H)

Variables	Units	Inputs	Outputs
(Cw) Conc. in GW (IF NOT USING DISSOLVED IN GROUNDWATER COMPONENT, INPUT 0.)	PPM	0	
(H) Henry's Law constant	dimensionless	0.225	
Calculated soil gas level	mg/cm^3		0.00E+00

DIRECT MEASUREMENT OF SOIL GAS

Variables	Units	Inputs	Outputs
(Csg) Contaminant soil gas conc. (IF NOT USING DIRECT MEASUREMENT COMPONENT, INPUT 0.)	mg/m^3	0	
Spreadsheet unit conversion to mg/cm^3	mg/cm^3		0.00E+00

LIQUID PHASE CONTAMINANT

Conc. of soil gas (Csg) = Vapor pressure (VP)* Mol. Wt. (MW) * Mole fraction (MF) / Universal gas constant (R) * Absolute Temp. (T)

Variables	Units	Inputs	Outputs
(VP) Vapor pressure at 20° C (IF NOT USING THE FREE PRODUCT COMPONENT, INPUT 0)	atm	0	
(MW) Molecular weight	mg/mole		
(MF) Mole fraction	dimensionless		
(R) Universal gas constant	cc-atm/mole-°k	8.21E+01	
(T) Absolute temperature	°K		
Calculated soil gas level	mg/cm^3		0.00E+00

FLUX

Flux (F) = Measured or calculated soil gas level (Csg) / [Vertical length of soil layer between source and surface (or next soil layer that has a dissimilar vapor permeability) (L1) / Diffusion coefficient for soil layer (De1)]+(L2/De2)+...(Ln/Den) (NOTE: If flux for outdoor conc. (Fo) is expected to differ from indoor flux, first calc. outdoor flux and enter results below in outdoor component section, then come back and calc. indoor flux.)

Variables	Units	Inputs	Outputs
(Csg) Soil gas level (Note: Program selected the lowest non-zero Csg from spread sheet for use)	mg/cm^3		1.07E-03
(L1) Vertical length of 1st soil layer between source and surface. INPUT HERE IF 1 LAYER ONLY IN USE.	cm	61	
(L2) Vertical length of 2nd soil layer. (IF ONLY ONE SOIL LAYER IS CONSIDERED, INPUT 0.)	cm	0	
(L3) Vertical length of 3rd soil layer. (IF ONLY TWO SOIL LAYERS ARE TO BE CONSIDERED, INPUT 0.)	cm	0	
(De1) Effective diffusion coefficient layer 1 = Diff. coefficient in air (Da) * (Air filled porosity layer 1 (Pa1)^3.33 / Total porosity layer 1 (Pt1)^2)	cm^2/sec		1.25E-04
(Da) Diffusion coefficient in air (Use ref for default)	cm^2/sec	0.081	
(Pa1) Air filled porosity, layer 1 = (Pt1) Total porosity layer1-(Pw1) soil moisture by vol. layer 1	dimensionless		9.20E-02
(Pt1) Total porosity layer 1 (Use ref for default)	cm^3/cm^3	0.479	
(Pw1) Soil moisture by volume, layer 1 (Use reference for default value)	cm^3/cm^3	0.387	
De2 = Da * (Pa2^3.33 / Pt2^2)	cm^2/sec		0.00E+00
Pa2 = Pt2 - Pw2	dimensionless		0.00E+00
Pt2 (Use ref. for default value) (IF ONLY ONE SOIL LAYER IS CONSIDERED, INPUT 1.)	dimensionless	1	
Pw2 (Use ref. for default value) (IF ONLY ONE SOIL LAYER IS CONSIDERED, INPUT 1.)	cm^3/cm^3	1	
De3 = Da * (Pa3^3.33 / Pt3^2)	cm^2/sec		0.00E+00
Pa3 = Pt3 - Pw3	dimensionless		0.00E+00
Pt3 (Use ref. for default value) (IF ONLY ONE OR TWO SOIL LAYERS ARE TO BE CONSIDERED, INPUT 1)	dimensionless	1	
Pw3 (Use ref. for default value)(IF ONLY ONE OR TWO SOIL LAYERS ARE TO BE CONSIDERED, INPUT 1)	cm^3/cm^3	1	
(F) Flux (includes converion to m^2)	mg/sec-m^2		2.19E-05

OUTDOOR AIR COMPONENT

Concentration in outdoor air (Co) = [Outdoor flux (Fo) * Downwind length of contamination (Ld)] / [Wind speed (u) * Height of box (h), e.g., height of doorway or ventilation system intake.](See note in Flux Section regarding Fo)

ENTER 0 IF OUTDOOR AIR COMPONENT IS NOT TO BE USED, 1 IF USED AND Fo = Fi. WHEN Fo ≠ Fi, ENTER CALCULATED Fo. WHEN CALC. Fo ONLY, ENTER 1.	mg/sec-m^2	0	
ENTER 1 IF Fo ≠ Fi, OR 2 IF Fo = Fi, OR CALC. Fo.	mg/sec-m^2	2	2.19E-05
(Ld) Down wind length of contamination	m	1.524	
(u) Wind speed	m/sec	0.013883	
(h) Height of box	m	2.44	
(Co) Concentration in outdoor air	mg/m^3		0.00E+00

CONCENTRATION IN INDOOR AIR

Total conc. in indoor air (Ci) = Conc. in outdoor air (Co)+[Foundation attenuation factor (b) * Flux for area under building (Fu) * Area through which flux occurs (A)] / [Vol. of building (V) * Air exchange rate (E)]

Variables	Units	Inputs	Outputs
(Co) Concentration. in outdoor air	mg/m^3		0.00E+00
(b) Attenuation factor. INPUT 0 IF CALC. Fo ONLY	dimensionless	0.001	
(Fu) Flux for area under building	mg/sec-m^2		2.19E-05
(A) Area through which flux occurs under building	m^2	75	
(V) Volume of building. (INPUT 1 IF CALC. Fo ONLY)	m^3	178	
(E) Exchange rate. (INPUT 1 IF CALC. Fo ONLY)	bldg. vol./sec	1.39E-04	
(Ci) Total indoor air contaminant concentration	mg/m^3		6.65E-05

INTAKE (INHALATION) OF VAPOR PHASE

Intake = Indoor contaminant conc. (Ci) * Daily intake rate (IR) * Exposure time (ET) * Exposure freq. (EF) * Exposure duration (ED)/ Body weight (BW) * Averaging time (AT)

Variables	Units	Inputs	Outputs
ENTER 0 IF SOURCE IS UNDER BUILDING; ENTER 1 IF PAVED AREA DIRECTS VAPORS UNDER BUILDING.	dimensionless	0	
(Ci) Total indoor air contaminant concentration	mg/m^3		6.65E-05
(IR) Daily intake rate (Use ref. for default value)	m^3/day	20	
(ET) Exposure time	hrs/24 hrs	10	4.17E-01
(EF) Exposure freq. (Use ref. for default value)	days/yr	250	
(ED) Exposure duration (Use ref. for default value)	yrs	25	
(BW) Body weight (Use ref. for default value)	kg	70	
(AT) Averaging time	days	2.55E+04	
Intake	mg/kg-day		1.94E-06

EXCESS LIFETIME RISK CALCULATION

EXCESS LIFETIME RISK = SLOPE FACTOR * UNITS OF EXPOSURE

Variables	Units	Inputs	Outputs
Carcinogenic slope factor (Potency factor)	1/mg/kg/day	0.01	
Units of exposure (From Intake calculation above)	mg/kg/day		1.94E-06
Excess Lifetime Cancer Risk	dimensionless		1.94E-08

Rix Business Sales
354 Blue Cavern Point
Long Beach, CA 90803
(310) 597-8875
Fax (310) 494-6163

September 10, 1996

Orange County Health Care
Environmental Health Division
2009 E. Edinger Ave
Santa Ana, CA 92705

Att: Mr. Luis Lodrigueza
Re: Crown Cleaners
18583 Brookhurst St. Fountain Valley, CA.

Dear Mr. Lodrigueza,

This will confirm my conversation acknowledging that your agency charges a "Oversite Fee" to review converse project No# 96-42318-03 concerning 18583 Brookhurst St. Fountain Valley.

I hereby authorize on behalf of my client Jack Enlow that you may review said file up to a total of twelve hours (12), any additional hours or charges must be approved.

Robin Rix, Agent
for Jack Enlow

RECEIVED
SEP 12 [illegible]
HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH

DIVERSIFIED
SHOPPING
CENTERS

August 7, 1996

Mr. Luis Lodrigueza
Orange County Health Care Agency
Industrial Waste Division
2009 E. Edinger
Santa Ana, California 92702

Re: Oversight for Site Investigation

Dear Mr. Lodrigueza:

This letter is to formerly request oversight by the Orange County Health Care Agency for the above referenced property.

Enclosed is a copy of the Site Characterization Report prepared by Converse Consultants Orange County, describing the history and investigations conducted at the property to date. Please direct your comments and questions to Henry Ames, Senior Geologist of Converse Environmental West at (714) 453-2880.

We understand there will be an Orange County Health Care Agency oversight fee charged to the tenant for time spent by the case worker during the oversight program. Please direct billing to the tenant, Mr. Jack Enlow, at 16291 Tisbury Circle, Huntington Beach, CA 92649. Mr. Enlow shall claim full responsibility for any action pertaining to this particular site.

ask DSC / Henry to have Jack Enlow send acknowledgment letter

Thank you for your attention to this matter.

Sincerely,

DIVERSIFIED SHOPPING CENTERS

Lisa Barkemeyer

Lisa Barkemeyer
Asset Manager

/lh

2910 Red Hill Avenue, Suite 200, P.O. Box 5047, Costa Mesa, California 92628-5047 • (714) 957-2651 FAX (714) 957-0147

RECEIVED
AUG 12 2005
HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH

CHAIN OF CUSTODY

Orange County Health Care Agency
Environmental Health Division
2009 E. Edinger Ave., Santa Ana, CA 92705
Telephone: (714) 667-3700

1. ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.

2. PLEASE WRITE LEGIBLY.

3. ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.

4. TO BE COMPLETED BY LABORATORY ANALYST

LAB NO.: 98873

DATE RECEIVED: 9/11/02

SAMPLE(S) CONDITION (PLEASE CHECK):

CHILLED: ✓ COUNTY SEAL(S) INTACT: ____

CONTAINER IN GOOD CONDITION: ✓

DATE ANALYSIS COMPLETED: 9/17/2002

ANALYST: AM

5. TO BE COMPLETED BY SAMPLE COLLECTOR

SITE NAME/ADDRESS: Crown Cleaners
18583 Brookhurst St., F.V.

DATE OF COLLECTION: 9-11-02

SAMPLE COLLECTOR/COMPANY: Converse
William Rogdale/Andy

TELEPHONE NO.: ____

HCA REPRESENTATIVE: Luis Lodriguez

6.

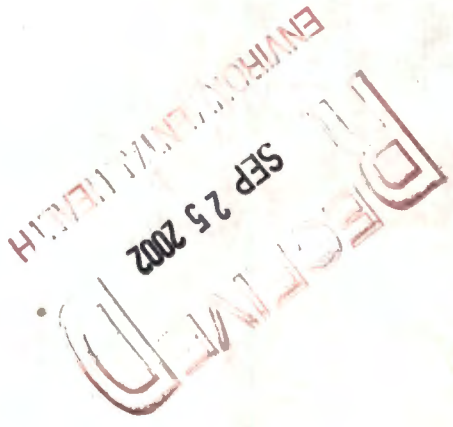
SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS	TIME OF COLLECTION
MW-5	EPA Method 8260 (VOC, inclds: MTBE)		11:11 AM
MW-6	(grab water samples)		11:23
MW-7			11:30
MW-1	PCE — 184 ug/L; TCE — 107 ug/L		11:39
MW-2	" 28 " ; TCE ND		11:46-12:11
MW-3	" 8.8 " ; TCE 11.1 ug/L; cis 1,2-DCE — 9.7 ug/L		12:15-12:46

7. CHAIN OF CUSTODY

	SIGNATURE	COMPANY/AGENCY	INCLUSIVE DATES/TIMES
1.		HCA - EHD	9-11-02 -
2.		Converse Consultants	9/11/02 -
3.	Wendy Arnold	Assoc. Labs	9/11/02 2:05
4.			-
5.			-
6.			-

WHITE-RETURN THIS COPY TO ENVIRONMENTAL HEALTH, CANARY-LABORATORY COPY
PINK-CONTRACTOR/CONSULTANT COPY, GOLDENROD-OFFICE COPY

F272-9.1531.1(R8/89) CRS


RECEIVED
SEP 25 2002
ENVIRONMENTAL HEALTH

CHAIN OF CUSTODY

Orange County Health Care Agency
Environmental Health Division
2009 E. Edinger Ave., Santa Ana, CA 92705
Telephone: (714) 667-3700

1. ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.

2. PLEASE WRITE LEGIBLY.

3. ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.

4. **TO BE COMPLETED BY LABORATORY ANALYST**

LAB NO.: _____

DATE RECEIVED: _____

SAMPLE(S) CONDITION (PLEASE CHECK):

CHILLED: ____ / COUNTY SEAL(S) INTACT: ____

CONTAINER IN GOOD CONDITION: ____

DATE ANALYSIS COMPLETED: _____

ANALYST: _____

5. **TO BE COMPLETED BY SAMPLE COLLECTOR**

SITE NAME/ADDRESS: Town Cleaners
15553 Brookhurst St., F.V.

DATE OF COLLECTION: 9-11-02

SAMPLE COLLECTOR/COMPANY: [illegible]
William Ragsdale / Tetra Tech

TELEPHONE NO.: _____

HCA REPRESENTATIVE: Luis Rodriguez

6.

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS	TIME OF COLLECTION
MW-5	EPA Method 8260 (VOC incl. MTBE)		11:11 AM
MW-6	(groundwater samples)		11:23
MW-7			11:30
MW-1			11:39
MW-2			11:46
MW-3			12:15

7. **CHAIN OF CUSTODY**

	SIGNATURE	COMPANY/AGENCY	INCLUSIVE DATES/TIMES
1.	[signature]	HCA-OHD	9-11-02 -
2.	[signature]	County Consultant	9/12 -
3.			-
4.			-
5.			-
6.			-

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PINK-CONTRACTOR/CONSULTANT COPY, GOLDENROD-OFFICE COPY

F272-9.1531.1(R8/89) CRS

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Converse Consultants (4708)
ATTN: William Ragsdale
185 E. Paularino Avenue
Suite B
Costa Mesa, CA 92626

LAB REQUEST 98873
REPORTED 09/19/2002
RECEIVED 09/11/2002

PROJECT Crown Cleaners

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
377171	MW-5
377172	MW-6
377173	MW-7
377174	MW-1
377175	MW-4
377176	MW-3
377177	Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical
Microbiological
Environmental


SEP 25 2002

Order #: 377171
Matrix: WATER
Date Sampled: 09/11/2002
Time Sampled: 11:06
Sampled By:

Client: Converse Consultants
Client Sample ID: MW-5

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst
1,1,1,2-Tetrachloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,1-Trichloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,2,2-Tetrachloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,2-Trichloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/L	09/17/02 AM
1,1-Dichloroethane	ND	1	5	ug/L	09/17/02 AM
1,1-Dichloroethene	ND	1	5	ug/L	09/17/02 AM
1,1-Dichloropropene	ND	1	5	ug/L	09/17/02 AM
1,2,3-Trichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,2,3-Trichloropropane	ND	1	5	ug/L	09/17/02 AM
1,2,4-Trichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,2,4-Trimethylbenzene	ND	1	5	ug/L	09/17/02 AM
1,2-Dibromo-3-chloropropane	ND	1	5	ug/L	09/17/02 AM
1,2-Dibromoethane	ND	1	5	ug/L	09/17/02 AM
1,2-Dichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,2-Dichloroethane	ND	1	5	ug/L	09/17/02 AM
1,2-Dichloropropane	ND	1	5	ug/L	09/17/02 AM
1,3,5-Trimethylbenzene	ND	1	5	ug/L	09/17/02 AM
1,3-Dichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,3-Dichloropropane	ND	1	5	ug/L	09/17/02 AM
1,4-Dichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,4-Dioxane	ND	1	57	ug/L	09/17/02 AM
1-Chlorohexane	ND	1	5	ug/L	09/17/02 AM
2,2-Dichloropropane	ND	1	5	ug/L	09/17/02 AM
2-Butanone (MEK)	ND	1	100	ug/L	09/17/02 AM
2-Chloroethyl vinyl ether	ND	1	5	ug/L	09/17/02 AM
2-Chlorotoluene	ND	1	5	ug/L	09/17/02 AM
2-Hexanone	ND	1	20	ug/L	09/17/02 AM
4-Chlorotoluene	ND	1	5	ug/L	09/17/02 AM
4-Methyl -2- Pentanone	ND	1	10	ug/L	09/17/02 AM
Acetone	ND	1	100	ug/L	09/17/02 AM
Acetonitrile	ND	1	50	ug/L	09/17/02 AM
Acrolein	ND	1	200	ug/L	09/17/02 AM
Acrylonitrile	ND	1	10	ug/L	09/17/02 AM
Allyl chloride	ND	1	5	ug/L	09/17/02 AM
Benzene	ND	1	1	ug/L	09/17/02 AM
Benzyl chloride	ND	1	5	ug/L	09/17/02 AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 377171
Matrix: WATER
Date Sampled: 09/11/2002
Time Sampled: 11:06
Sampled By:

Client: Converse Consultants
Client Sample ID: MW-5

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/L	09/17/02 AM
Bromochloromethane	ND	1	5	ug/L	09/17/02 AM
Bromodichloromethane	ND	1	5	ug/L	09/17/02 AM
Bromoform	ND	1	5	ug/L	09/17/02 AM
Bromomethane	ND	1	5	ug/L	09/17/02 AM
Carbon Disulfide	ND	1	5	ug/L	09/17/02 AM
Carbon tetrachloride	ND	1	5	ug/L	09/17/02 AM
Chlorobenzene	ND	1	5	ug/L	09/17/02 AM
Chloroethane	ND	1	5	ug/L	09/17/02 AM
Chloroform	ND	1	5	ug/L	09/17/02 AM
Chloromethane	ND	1	5	ug/L	09/17/02 AM
cis-1,2-Dichloroethene	ND	1	5	ug/L	09/17/02 AM
cis-1,3-Dichloropropene	ND	1	5	ug/L	09/17/02 AM
cis-1,4-Dichloro-2-butene	ND	1	20	ug/L	09/17/02 AM
Dibromochloromethane	ND	1	5	ug/L	09/17/02 AM
Dibromomethane	ND	1	5	ug/L	09/17/02 AM
Dichlorodifluoromethane	ND	1	5	ug/L	09/17/02 AM
Ethyl benzene	ND	1	5	ug/L	09/17/02 AM
Ethyl methacrylate	ND	1	50	ug/L	09/17/02 AM
Hexachlorobutadiene	ND	1	5	ug/L	09/17/02 AM
Iodomethane	ND	1	5	ug/L	09/17/02 AM
Isopropylbenzene (Cumene)	ND	1	5	ug/L	09/17/02 AM
m and p-Xylene	ND	1	5	ug/L	09/17/02 AM
Methacrylonitrile	ND	1	35	ug/L	09/17/02 AM
Methyl methacrylate	ND	1	5	ug/L	09/17/02 AM
Methyl-tert-butylether (MTBE)	ND	1	1	ug/L	09/17/02 AM
Methylene chloride	ND	1	5	ug/L	09/17/02 AM
n-Butylbenzene	ND	1	5	ug/L	09/17/02 AM
n-Propylbenzene	ND	1	5	ug/L	09/17/02 AM
Naphthalene	ND	1	5	ug/L	09/17/02 AM
o-Xylene	ND	1	5	ug/L	09/17/02 AM
p-Isopropyltoluene	ND	1	5	ug/L	09/17/02 AM
Pentachloroethane	ND	1	5	ug/L	09/17/02 AM
Propionitrile	ND	1	100	ug/L	09/17/02 AM
sec-Butylbenzene	ND	1	5	ug/L	09/17/02 AM
Styrene	ND	1	5	ug/L	09/17/02 AM
tert-Butylbenzene	ND	1	5	ug/L	09/17/02 AM
Tetrachloroethene	ND	1	5	ug/L	09/17/02 AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 377171
Matrix: WATER
Date Sampled: 09/11/2002
Time Sampled: 11:06
Sampled By:

Client: Converse Consultants
Client Sample ID: MW-5

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Toluene	ND	1	5	ug/L	09/17/02 AM
trans-1,2-Dichloroethene	ND	1	5	ug/L	09/17/02 AM
trans-1,3-Dichloropropene	ND	1	5	ug/L	09/17/02 AM
trans-1,4-Dichloro-2-butene	ND	1	20	ug/L	09/17/02 AM
Trichloroethene	ND	1	5	ug/L	09/17/02 AM
Trichlorofluoromethane	ND	1	5	ug/L	09/17/02 AM
Vinyl acetate	ND	1	50	ug/L	09/17/02 AM
Vinyl chloride	ND	1	5	ug/L	09/17/02 AM
Xylenes, total	ND	1	5	ug/L	09/17/02 AM
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	120			%	70 - 130
Dibromofluoromethane (sur)	99			%	70 - 130
p-Bromofluorobenzene (sur)	100			%	70 - 130
Toluene-d8 (sur)	100			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 377172
Matrix: WATER
Date Sampled: 09/11/2002
Time Sampled: 11:18
Sampled By:

Client: Converse Consultants
Client Sample ID: MW-6

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst
1,1,1,2-Tetrachloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,1-Trichloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,2,2-Tetrachloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,2-Trichloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/L	09/17/02 AM
1,1-Dichloroethane	ND	1	5	ug/L	09/17/02 AM
1,1-Dichloroethene	ND	1	5	ug/L	09/17/02 AM
1,1-Dichloropropene	ND	1	5	ug/L	09/17/02 AM
1,2,3-Trichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,2,3-Trichloropropane	ND	1	5	ug/L	09/17/02 AM
1,2,4-Trichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,2,4-Trimethylbenzene	ND	1	5	ug/L	09/17/02 AM
1,2-Dibromo-3-chloropropane	ND	1	5	ug/L	09/17/02 AM
1,2-Dibromoethane	ND	1	5	ug/L	09/17/02 AM
1,2-Dichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,2-Dichloroethane	ND	1	5	ug/L	09/17/02 AM
1,2-Dichloropropane	ND	1	5	ug/L	09/17/02 AM
1,3,5-Trimethylbenzene	ND	1	5	ug/L	09/17/02 AM
1,3-Dichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,3-Dichloropropane	ND	1	5	ug/L	09/17/02 AM
1,4-Dichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,4-Dioxane	ND	1	57	ug/L	09/17/02 AM
1-Chlorohexane	ND	1	5	ug/L	09/17/02 AM
2,2-Dichloropropane	ND	1	5	ug/L	09/17/02 AM
2-Butanone (MEK)	ND	1	100	ug/L	09/17/02 AM
2-Chloroethyl vinyl ether	ND	1	5	ug/L	09/17/02 AM
2-Chlorotoluene	ND	1	5	ug/L	09/17/02 AM
2-Hexanone	ND	1	20	ug/L	09/17/02 AM
4-Chlorotoluene	ND	1	5	ug/L	09/17/02 AM
4-Methyl -2- Pentanone	ND	1	10	ug/L	09/17/02 AM
Acetone	ND	1	100	ug/L	09/17/02 AM
Acetonitrile	ND	1	50	ug/L	09/17/02 AM
Acrolein	ND	1	200	ug/L	09/17/02 AM
Acrylonitrile	ND	1	10	ug/L	09/17/02 AM
Allyl chloride	ND	1	5	ug/L	09/17/02 AM
Benzene	ND	1	1	ug/L	09/17/02 AM
Benzyl chloride	ND	1	5	ug/L	09/17/02 AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 377172
Matrix: WATER
Date Sampled: 09/11/2002
Time Sampled: 11:18
Sampled By:

Client: Converse Consultants
Client Sample ID: MW-6

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/L	09/17/02 AM
Bromochloromethane	ND	1	5	ug/L	09/17/02 AM
Bromodichloromethane	ND	1	5	ug/L	09/17/02 AM
Bromoform	ND	1	5	ug/L	09/17/02 AM
Bromomethane	ND	1	5	ug/L	09/17/02 AM
Carbon Disulfide	ND	1	5	ug/L	09/17/02 AM
Carbon tetrachloride	ND	1	5	ug/L	09/17/02 AM
Chlorobenzene	ND	1	5	ug/L	09/17/02 AM
Chloroethane	ND	1	5	ug/L	09/17/02 AM
Chloroform	ND	1	5	ug/L	09/17/02 AM
Chloromethane	ND	1	5	ug/L	09/17/02 AM
cis-1,2-Dichloroethene	ND	1	5	ug/L	09/17/02 AM
cis-1,3-Dichloropropene	ND	1	5	ug/L	09/17/02 AM
cis-1,4-Dichloro-2-butene	ND	1	20	ug/L	09/17/02 AM
Dibromochloromethane	ND	1	5	ug/L	09/17/02 AM
Dibromomethane	ND	1	5	ug/L	09/17/02 AM
Dichlorodifluoromethane	ND	1	5	ug/L	09/17/02 AM
Ethyl benzene	ND	1	5	ug/L	09/17/02 AM
Ethyl methacrylate	ND	1	50	ug/L	09/17/02 AM
Hexachlorobutadiene	ND	1	5	ug/L	09/17/02 AM
Iodomethane	ND	1	5	ug/L	09/17/02 AM
Isopropylbenzene (Cumene)	ND	1	5	ug/L	09/17/02 AM
m and p-Xylene	ND	1	5	ug/L	09/17/02 AM
Methacrylonitrile	ND	1	35	ug/L	09/17/02 AM
Methyl methacrylate	ND	1	5	ug/L	09/17/02 AM
Methyl-tert-butylether (MTBE)	ND	1	1	ug/L	09/17/02 AM
Methylene chloride	ND	1	5	ug/L	09/17/02 AM
n-Butylbenzene	ND	1	5	ug/L	09/17/02 AM
n-Propylbenzene	ND	1	5	ug/L	09/17/02 AM
Naphthalene	ND	1	5	ug/L	09/17/02 AM
o-Xylene	ND	1	5	ug/L	09/17/02 AM
p-Isopropyltoluene	ND	1	5	ug/L	09/17/02 AM
Pentachloroethane	ND	1	5	ug/L	09/17/02 AM
Propionitrile	ND	1	100	ug/L	09/17/02 AM
sec-Butylbenzene	ND	1	5	ug/L	09/17/02 AM
Styrene	ND	1	5	ug/L	09/17/02 AM
tert-Butylbenzene	ND	1	5	ug/L	09/17/02 AM
Tetrachloroethene	ND	1	5	ug/L	09/17/02 AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 377172
Matrix: WATER
Date Sampled: 09/11/2002
Time Sampled: 11:18
Sampled By:

Client: Converse Consultants
Client Sample ID: MW-6

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Toluene	ND	1	5	ug/L	09/17/02 AM
trans-1,2-Dichloroethene	ND	1	5	ug/L	09/17/02 AM
trans-1,3-Dichloropropene	ND	1	5	ug/L	09/17/02 AM
trans-1,4-Dichloro-2-butene	ND	1	20	ug/L	09/17/02 AM
Trichloroethene	ND	1	5	ug/L	09/17/02 AM
Trichlorofluoromethane	ND	1	5	ug/L	09/17/02 AM
Vinyl acetate	ND	1	50	ug/L	09/17/02 AM
Vinyl chloride	ND	1	5	ug/L	09/17/02 AM
Xylenes, total	ND	1	5	ug/L	09/17/02 AM
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	106			%	70 - 130
Dibromofluoromethane (sur)	96			%	70 - 130
p-Bromofluorobenzene (sur)	102			%	70 - 130
Toluene-d8 (sur)	99			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 377173
Matrix: WATER
Date Sampled: 09/11/2002
Time Sampled: 11:28
Sampled By:

Client: Converse Consultants
Client Sample ID: MW-7

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst
1,1,1,2-Tetrachloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,1-Trichloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,2,2-Tetrachloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,2-Trichloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/L	09/17/02 AM
1,1-Dichloroethane	ND	1	5	ug/L	09/17/02 AM
1,1-Dichloroethene	ND	1	5	ug/L	09/17/02 AM
1,1-Dichloropropene	ND	1	5	ug/L	09/17/02 AM
1,2,3-Trichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,2,3-Trichloropropane	ND	1	5	ug/L	09/17/02 AM
1,2,4-Trichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,2,4-Trimethylbenzene	ND	1	5	ug/L	09/17/02 AM
1,2-Dibromo-3-chloropropane	ND	1	5	ug/L	09/17/02 AM
1,2-Dibromoethane	ND	1	5	ug/L	09/17/02 AM
1,2-Dichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,2-Dichloroethane	ND	1	5	ug/L	09/17/02 AM
1,2-Dichloropropane	ND	1	5	ug/L	09/17/02 AM
1,3,5-Trimethylbenzene	ND	1	5	ug/L	09/17/02 AM
1,3-Dichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,3-Dichloropropane	ND	1	5	ug/L	09/17/02 AM
1,4-Dichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,4-Dioxane	ND	1	57	ug/L	09/17/02 AM
1-Chlorohexane	ND	1	5	ug/L	09/17/02 AM
2,2-Dichloropropane	ND	1	5	ug/L	09/17/02 AM
2-Butanone (MEK)	ND	1	100	ug/L	09/17/02 AM
2-Chloroethyl vinyl ether	ND	1	5	ug/L	09/17/02 AM
2-Chlorotoluene	ND	1	5	ug/L	09/17/02 AM
2-Hexanone	ND	1	20	ug/L	09/17/02 AM
4-Chlorotoluene	ND	1	5	ug/L	09/17/02 AM
4-Methyl -2- Pentanone	ND	1	10	ug/L	09/17/02 AM
Acetone	ND	1	100	ug/L	09/17/02 AM
Acetonitrile	ND	1	50	ug/L	09/17/02 AM
Acrolein	ND	1	200	ug/L	09/17/02 AM
Acrylonitrile	ND	1	10	ug/L	09/17/02 AM
Allyl chloride	ND	1	5	ug/L	09/17/02 AM
Benzene	ND	1	1	ug/L	09/17/02 AM
Benzyl chloride	ND	1	5	ug/L	09/17/02 AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 377173
Matrix: WATER
Date Sampled: 09/11/2002
Time Sampled: 11:28
Sampled By:

Client: Converse Consultants
Client Sample ID: MW-7

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/L	09/17/02 AM
Bromochloromethane	ND	1	5	ug/L	09/17/02 AM
Bromodichloromethane	ND	1	5	ug/L	09/17/02 AM
Bromoform	ND	1	5	ug/L	09/17/02 AM
Bromomethane	ND	1	5	ug/L	09/17/02 AM
Carbon Disulfide	ND	1	5	ug/L	09/17/02 AM
Carbon tetrachloride	ND	1	5	ug/L	09/17/02 AM
Chlorobenzene	ND	1	5	ug/L	09/17/02 AM
Chloroethane	ND	1	5	ug/L	09/17/02 AM
Chloroform	ND	1	5	ug/L	09/17/02 AM
Chloromethane	ND	1	5	ug/L	09/17/02 AM
cis-1,2-Dichloroethene	ND	1	5	ug/L	09/17/02 AM
cis-1,3-Dichloropropene	ND	1	5	ug/L	09/17/02 AM
cis-1,4-Dichloro-2-butene	ND	1	20	ug/L	09/17/02 AM
Dibromochloromethane	ND	1	5	ug/L	09/17/02 AM
Dibromomethane	ND	1	5	ug/L	09/17/02 AM
Dichlorodifluoromethane	ND	1	5	ug/L	09/17/02 AM
Ethyl benzene	ND	1	5	ug/L	09/17/02 AM
Ethyl methacrylate	ND	1	50	ug/L	09/17/02 AM
Hexachlorobutadiene	ND	1	5	ug/L	09/17/02 AM
Iodomethane	ND	1	5	ug/L	09/17/02 AM
Isopropylbenzene (Cumene)	ND	1	5	ug/L	09/17/02 AM
m and p-Xylene	ND	1	5	ug/L	09/17/02 AM
Methacrylonitrile	ND	1	35	ug/L	09/17/02 AM
Methyl methacrylate	ND	1	5	ug/L	09/17/02 AM
Methyl-tert-butylether (MTBE)	ND	1	1	ug/L	09/17/02 AM
Methylene chloride	ND	1	5	ug/L	09/17/02 AM
n-Butylbenzene	ND	1	5	ug/L	09/17/02 AM
n-Propylbenzene	ND	1	5	ug/L	09/17/02 AM
Naphthalene	ND	1	5	ug/L	09/17/02 AM
o-Xylene	ND	1	5	ug/L	09/17/02 AM
p-Isopropyltoluene	ND	1	5	ug/L	09/17/02 AM
Pentachloroethane	ND	1	5	ug/L	09/17/02 AM
Propionitrile	ND	1	100	ug/L	09/17/02 AM
sec-Butylbenzene	ND	1	5	ug/L	09/17/02 AM
Styrene	ND	1	5	ug/L	09/17/02 AM
tert-Butylbenzene	ND	1	5	ug/L	09/17/02 AM
Tetrachloroethene	ND	1	5	ug/L	09/17/02 AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 377173
Matrix: WATER
Date Sampled: 09/11/2002
Time Sampled: 11:28
Sampled By:

Client: Converse Consultants
Client Sample ID: MW-7

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Toluene	ND	1	5	ug/L	09/17/02 AM
trans-1,2-Dichloroethene	ND	1	5	ug/L	09/17/02 AM
trans-1,3-Dichloropropene	ND	1	5	ug/L	09/17/02 AM
trans-1,4-Dichloro-2-butene	ND	1	20	ug/L	09/17/02 AM
Trichloroethene	ND	1	5	ug/L	09/17/02 AM
Trichlorofluoromethane	ND	1	5	ug/L	09/17/02 AM
Vinyl acetate	ND	1	50	ug/L	09/17/02 AM
Vinyl chloride	ND	1	5	ug/L	09/17/02 AM
Xylenes, total	ND	1	5	ug/L	09/17/02 AM
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	110			%	70 - 130
Dibromofluoromethane (sur)	101			%	70 - 130
p-Bromofluorobenzene (sur)	101			%	70 - 130
Toluene-d8 (sur)	101			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 377174
Matrix: WATER
Date Sampled: 09/11/2002
Time Sampled: 11:40
Sampled By:

Client: Converse Consultants
Client Sample ID: MW-1

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst
1,1,1,2-Tetrachloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,1-Trichloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,2,2-Tetrachloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,2-Trichloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/L	09/17/02 AM
1,1-Dichloroethane	ND	1	5	ug/L	09/17/02 AM
1,1-Dichloroethene	ND	1	5	ug/L	09/17/02 AM
1,1-Dichloropropene	ND	1	5	ug/L	09/17/02 AM
1,2,3-Trichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,2,3-Trichloropropane	ND	1	5	ug/L	09/17/02 AM
1,2,4-Trichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,2,4-Trimethylbenzene	ND	1	5	ug/L	09/17/02 AM
1,2-Dibromo-3-chloropropane	ND	1	5	ug/L	09/17/02 AM
1,2-Dibromoethane	ND	1	5	ug/L	09/17/02 AM
1,2-Dichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,2-Dichloroethane	ND	1	5	ug/L	09/17/02 AM
1,2-Dichloropropane	ND	1	5	ug/L	09/17/02 AM
1,3,5-Trimethylbenzene	ND	1	5	ug/L	09/17/02 AM
1,3-Dichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,3-Dichloropropane	ND	1	5	ug/L	09/17/02 AM
1,4-Dichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,4-Dioxane	ND	1	57	ug/L	09/17/02 AM
1-Chlorohexane	ND	1	5	ug/L	09/17/02 AM
2,2-Dichloropropane	ND	1	5	ug/L	09/17/02 AM
2-Butanone (MEK)	ND	1	100	ug/L	09/17/02 AM
2-Chloroethyl vinyl ether	ND	1	5	ug/L	09/17/02 AM
2-Chlorotoluene	ND	1	5	ug/L	09/17/02 AM
2-Hexanone	ND	1	20	ug/L	09/17/02 AM
4-Chlorotoluene	ND	1	5	ug/L	09/17/02 AM
4-Methyl -2- Pentanone	ND	1	10	ug/L	09/17/02 AM
Acetone	ND	1	100	ug/L	09/17/02 AM
Acetonitrile	ND	1	50	ug/L	09/17/02 AM
Acrolein	ND	1	200	ug/L	09/17/02 AM
Acrylonitrile	ND	1	10	ug/L	09/17/02 AM
Allyl chloride	ND	1	5	ug/L	09/17/02 AM
Benzene	ND	1	1	ug/L	09/17/02 AM
Benzyl chloride	ND	1	5	ug/L	09/17/02 AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 377174
Matrix: WATER
Date Sampled: 09/11/2002
Time Sampled: 11:40
Sampled By:

Client: Converse Consultants
Client Sample ID: MW-1

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/L	09/17/02 AM
Bromochloromethane	ND	1	5	ug/L	09/17/02 AM
Bromodichloromethane	ND	1	5	ug/L	09/17/02 AM
Bromoform	ND	1	5	ug/L	09/17/02 AM
Bromomethane	ND	1	5	ug/L	09/17/02 AM
Carbon Disulfide	ND	1	5	ug/L	09/17/02 AM
Carbon tetrachloride	ND	1	5	ug/L	09/17/02 AM
Chlorobenzene	ND	1	5	ug/L	09/17/02 AM
Chloroethane	ND	1	5	ug/L	09/17/02 AM
Chloroform	ND	1	5	ug/L	09/17/02 AM
Chloromethane	ND	1	5	ug/L	09/17/02 AM
cis-1,2-Dichloroethene	16	1	5	ug/L	09/17/02 AM
cis-1,3-Dichloropropene	ND	1	5	ug/L	09/17/02 AM
cis-1,4-Dichloro-2-butene	ND	1	20	ug/L	09/17/02 AM
Dibromochloromethane	ND	1	5	ug/L	09/17/02 AM
Dibromomethane	ND	1	5	ug/L	09/17/02 AM
Dichlorodifluoromethane	ND	1	5	ug/L	09/17/02 AM
Ethyl benzene	ND	1	5	ug/L	09/17/02 AM
Ethyl methacrylate	ND	1	50	ug/L	09/17/02 AM
Hexachlorobutadiene	ND	1	5	ug/L	09/17/02 AM
Iodomethane	ND	1	5	ug/L	09/17/02 AM
Isopropylbenzene (Cumene)	ND	1	5	ug/L	09/17/02 AM
m and p-Xylene	ND	1	5	ug/L	09/17/02 AM
Methacrylonitrile	ND	1	35	ug/L	09/17/02 AM
Methyl methacrylate	ND	1	5	ug/L	09/17/02 AM
Methyl-tert-butylether (MTBE)	ND	1	1	ug/L	09/17/02 AM
Methylene chloride	ND	1	5	ug/L	09/17/02 AM
n-Butylbenzene	ND	1	5	ug/L	09/17/02 AM
n-Propylbenzene	ND	1	5	ug/L	09/17/02 AM
Naphthalene	ND	1	5	ug/L	09/17/02 AM
o-Xylene	ND	1	5	ug/L	09/17/02 AM
p-Isopropyltoluene	ND	1	5	ug/L	09/17/02 AM
Pentachloroethane	ND	1	5	ug/L	09/17/02 AM
Propionitrile	ND	1	100	ug/L	09/17/02 AM
sec-Butylbenzene	ND	1	5	ug/L	09/17/02 AM
Styrene	ND	1	5	ug/L	09/17/02 AM
tert-Butylbenzene	ND	1	5	ug/L	09/17/02 AM
Tetrachloroethene	147	1	5	ug/L	09/17/02 AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 377174
Matrix: WATER
Date Sampled: 09/11/2002
Time Sampled: 11:40
Sampled By:

Client: Converse Consultants
Client Sample ID: MW-1

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Toluene	ND	1	5	ug/L	09/17/02 AM
trans-1,2-Dichloroethene	ND	1	5	ug/L	09/17/02 AM
trans-1,3-Dichloropropene	ND	1	5	ug/L	09/17/02 AM
trans-1,4-Dichloro-2-butene	ND	1	20	ug/L	09/17/02 AM
Trichloroethene	107	1	5	ug/L	09/17/02 AM
Trichlorofluoromethane	ND	1	5	ug/L	09/17/02 AM
Vinyl acetate	ND	1	50	ug/L	09/17/02 AM
Vinyl chloride	ND	1	5	ug/L	09/17/02 AM
Xylenes, total	ND	1	5	ug/L	09/17/02 AM
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	107			%	70 - 130
Dibromofluoromethane (sur)	100			%	70 - 130
p-Bromofluorobenzene (sur)	102			%	70 - 130
Toluene-d8 (sur)	102			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 377175
Matrix: WATER
Date Sampled: 09/11/2002
Time Sampled: 11:50
Sampled By:

Client: Converse Consultants
Client Sample ID: MW-4

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst
1,1,1,2-Tetrachloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,1-Trichloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,2,2-Tetrachloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,2-Trichloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/L	09/17/02 AM
1,1-Dichloroethane	ND	1	5	ug/L	09/17/02 AM
1,1-Dichloroethene	ND	1	5	ug/L	09/17/02 AM
1,1-Dichloropropene	ND	1	5	ug/L	09/17/02 AM
1,2,3-Trichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,2,3-Trichloropropane	ND	1	5	ug/L	09/17/02 AM
1,2,4-Trichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,2,4-Trimethylbenzene	ND	1	5	ug/L	09/17/02 AM
1,2-Dibromo-3-chloropropane	ND	1	5	ug/L	09/17/02 AM
1,2-Dibromoethane	ND	1	5	ug/L	09/17/02 AM
1,2-Dichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,2-Dichloroethane	ND	1	5	ug/L	09/17/02 AM
1,2-Dichloropropane	ND	1	5	ug/L	09/17/02 AM
1,3,5-Trimethylbenzene	ND	1	5	ug/L	09/17/02 AM
1,3-Dichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,3-Dichloropropane	ND	1	5	ug/L	09/17/02 AM
1,4-Dichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,4-Dioxane	ND	1	57	ug/L	09/17/02 AM
1-Chlorohexane	ND	1	5	ug/L	09/17/02 AM
2,2-Dichloropropane	ND	1	5	ug/L	09/17/02 AM
2-Butanone (MEK)	ND	1	100	ug/L	09/17/02 AM
2-Chloroethyl vinyl ether	ND	1	5	ug/L	09/17/02 AM
2-Chlorotoluene	ND	1	5	ug/L	09/17/02 AM
2-Hexanone	ND	1	20	ug/L	09/17/02 AM
4-Chlorotoluene	ND	1	5	ug/L	09/17/02 AM
4-Methyl -2- Pentanone	ND	1	10	ug/L	09/17/02 AM
Acetone	ND	1	100	ug/L	09/17/02 AM
Acetonitrile	ND	1	50	ug/L	09/17/02 AM
Acrolein	ND	1	200	ug/L	09/17/02 AM
Acrylonitrile	ND	1	10	ug/L	09/17/02 AM
Allyl chloride	ND	1	5	ug/L	09/17/02 AM
Benzene	ND	1	1	ug/L	09/17/02 AM
Benzyl chloride	ND	1	5	ug/L	09/17/02 AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 377175
Matrix: WATER
Date Sampled: 09/11/2002
Time Sampled: 11:50
Sampled By:

Client: Converse Consultants
Client Sample ID: MW-4

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/L	09/17/02 AM
Bromochloromethane	ND	1	5	ug/L	09/17/02 AM
Bromodichloromethane	ND	1	5	ug/L	09/17/02 AM
Bromoform	ND	1	5	ug/L	09/17/02 AM
Bromomethane	ND	1	5	ug/L	09/17/02 AM
Carbon Disulfide	ND	1	5	ug/L	09/17/02 AM
Carbon tetrachloride	ND	1	5	ug/L	09/17/02 AM
Chlorobenzene	ND	1	5	ug/L	09/17/02 AM
Chloroethane	ND	1	5	ug/L	09/17/02 AM
Chloroform	ND	1	5	ug/L	09/17/02 AM
Chloromethane	ND	1	5	ug/L	09/17/02 AM
cis-1,2-Dichloroethene	ND	1	5	ug/L	09/17/02 AM
cis-1,3-Dichloropropene	ND	1	5	ug/L	09/17/02 AM
cis-1,4-Dichloro-2-butene	ND	1	20	ug/L	09/17/02 AM
Dibromochloromethane	ND	1	5	ug/L	09/17/02 AM
Dibromomethane	ND	1	5	ug/L	09/17/02 AM
Dichlorodifluoromethane	ND	1	5	ug/L	09/17/02 AM
Ethyl benzene	ND	1	5	ug/L	09/17/02 AM
Ethyl methacrylate	ND	1	50	ug/L	09/17/02 AM
Hexachlorobutadiene	ND	1	5	ug/L	09/17/02 AM
Iodomethane	ND	1	5	ug/L	09/17/02 AM
Isopropylbenzene (Cumene)	ND	1	5	ug/L	09/17/02 AM
m and p-Xylene	ND	1	5	ug/L	09/17/02 AM
Methacrylonitrile	ND	1	35	ug/L	09/17/02 AM
Methyl methacrylate	ND	1	5	ug/L	09/17/02 AM
Methyl-tert-butylether (MTBE)	ND	1	1	ug/L	09/17/02 AM
Methylene chloride	ND	1	5	ug/L	09/17/02 AM
n-Butylbenzene	ND	1	5	ug/L	09/17/02 AM
n-Propylbenzene	ND	1	5	ug/L	09/17/02 AM
Naphthalene	ND	1	5	ug/L	09/17/02 AM
o-Xylene	ND	1	5	ug/L	09/17/02 AM
p-Isopropyltoluene	ND	1	5	ug/L	09/17/02 AM
Pentachloroethane	ND	1	5	ug/L	09/17/02 AM
Propionitrile	ND	1	100	ug/L	09/17/02 AM
sec-Butylbenzene	ND	1	5	ug/L	09/17/02 AM
Styrene	ND	1	5	ug/L	09/17/02 AM
tert-Butylbenzene	ND	1	5	ug/L	09/17/02 AM
Tetrachloroethene	28	1	5	ug/L	09/17/02 AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 377175
Matrix: WATER
Date Sampled: 09/11/2002
Time Sampled: 11:50
Sampled By:

Client: Converse Consultants
Client Sample ID: MW-4

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Toluene	ND	1	5	ug/L	09/17/02 AM
trans-1,2-Dichloroethene	ND	1	5	ug/L	09/17/02 AM
trans-1,3-Dichloropropene	ND	1	5	ug/L	09/17/02 AM
trans-1,4-Dichloro-2-butene	ND	1	20	ug/L	09/17/02 AM
Trichloroethene	ND	1	5	ug/L	09/17/02 AM
Trichlorofluoromethane	ND	1	5	ug/L	09/17/02 AM
Vinyl acetate	ND	1	50	ug/L	09/17/02 AM
Vinyl chloride	ND	1	5	ug/L	09/17/02 AM
Xylenes, total	ND	1	5	ug/L	09/17/02 AM
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	109			%	70 - 130
Dibromofluoromethane (sur)	97			%	70 - 130
p-Bromofluorobenzene (sur)	98			%	70 - 130
Toluene-d8 (sur)	103			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 377176
Matrix: WATER
Date Sampled: 09/11/2002
Time Sampled: 12:20
Sampled By:

Client: Converse Consultants
Client Sample ID: MW-3

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst
1,1,1,2-Tetrachloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,1-Trichloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,2,2-Tetrachloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,2-Trichloroethane	ND	1	5	ug/L	09/17/02 AM
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/L	09/17/02 AM
1,1-Dichloroethane	ND	1	5	ug/L	09/17/02 AM
1,1-Dichloroethene	ND	1	5	ug/L	09/17/02 AM
1,1-Dichloropropene	ND	1	5	ug/L	09/17/02 AM
1,2,3-Trichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,2,3-Trichloropropane	ND	1	5	ug/L	09/17/02 AM
1,2,4-Trichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,2,4-Trimethylbenzene	ND	1	5	ug/L	09/17/02 AM
1,2-Dibromo-3-chloropropane	ND	1	5	ug/L	09/17/02 AM
1,2-Dibromoethane	ND	1	5	ug/L	09/17/02 AM
1,2-Dichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,2-Dichloroethane	ND	1	5	ug/L	09/17/02 AM
1,2-Dichloropropane	ND	1	5	ug/L	09/17/02 AM
1,3,5-Trimethylbenzene	ND	1	5	ug/L	09/17/02 AM
1,3-Dichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,3-Dichloropropane	ND	1	5	ug/L	09/17/02 AM
1,4-Dichlorobenzene	ND	1	5	ug/L	09/17/02 AM
1,4-Dioxane	ND	1	57	ug/L	09/17/02 AM
1-Chlorohexane	ND	1	5	ug/L	09/17/02 AM
2,2-Dichloropropane	ND	1	5	ug/L	09/17/02 AM
2-Butanone (MEK)	ND	1	100	ug/L	09/17/02 AM
2-Chloroethyl vinyl ether	ND	1	5	ug/L	09/17/02 AM
2-Chlorotoluene	ND	1	5	ug/L	09/17/02 AM
2-Hexanone	ND	1	20	ug/L	09/17/02 AM
4-Chlorotoluene	ND	1	5	ug/L	09/17/02 AM
4-Methyl -2- Pentanone	ND	1	10	ug/L	09/17/02 AM
Acetone	ND	1	100	ug/L	09/17/02 AM
Acetonitrile	ND	1	50	ug/L	09/17/02 AM
Acrolein	ND	1	200	ug/L	09/17/02 AM
Acrylonitrile	ND	1	10	ug/L	09/17/02 AM
Allyl chloride	ND	1	5	ug/L	09/17/02 AM
Benzene	ND	1	1	ug/L	09/17/02 AM
Benzyl chloride	ND	1	5	ug/L	09/17/02 AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 377176
Matrix: WATER
Date Sampled: 09/11/2002
Time Sampled: 12:20
Sampled By:

Client: Converse Consultants
Client Sample ID: MW-3

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/L	09/17/02 AM
Bromochloromethane	ND	1	5	ug/L	09/17/02 AM
Bromodichloromethane	ND	1	5	ug/L	09/17/02 AM
Bromoform	ND	1	5	ug/L	09/17/02 AM
Bromomethane	ND	1	5	ug/L	09/17/02 AM
Carbon Disulfide	ND	1	5	ug/L	09/17/02 AM
Carbon tetrachloride	ND	1	5	ug/L	09/17/02 AM
Chlorobenzene	ND	1	5	ug/L	09/17/02 AM
Chloroethane	ND	1	5	ug/L	09/17/02 AM
Chloroform	ND	1	5	ug/L	09/17/02 AM
Chloromethane	ND	1	5	ug/L	09/17/02 AM
cis-1,2-Dichloroethene	9.7	1	5	ug/L	09/17/02 AM
cis-1,3-Dichloropropene	ND	1	5	ug/L	09/17/02 AM
cis-1,4-Dichloro-2-butene	ND	1	20	ug/L	09/17/02 AM
Dibromochloromethane	ND	1	5	ug/L	09/17/02 AM
Dibromomethane	ND	1	5	ug/L	09/17/02 AM
Dichlorodifluoromethane	ND	1	5	ug/L	09/17/02 AM
Ethyl benzene	ND	1	5	ug/L	09/17/02 AM
Ethyl methacrylate	ND	1	50	ug/L	09/17/02 AM
Hexachlorobutadiene	ND	1	5	ug/L	09/17/02 AM
Iodomethane	ND	1	5	ug/L	09/17/02 AM
Isopropylbenzene (Cumene)	ND	1	5	ug/L	09/17/02 AM
m and p-Xylene	ND	1	5	ug/L	09/17/02 AM
Methacrylonitrile	ND	1	35	ug/L	09/17/02 AM
Methyl methacrylate	ND	1	5	ug/L	09/17/02 AM
Methyl-tert-butylether (MTBE)	ND	1	1	ug/L	09/17/02 AM
Methylene chloride	ND	1	5	ug/L	09/17/02 AM
n-Butylbenzene	ND	1	5	ug/L	09/17/02 AM
n-Propylbenzene	ND	1	5	ug/L	09/17/02 AM
Naphthalene	ND	1	5	ug/L	09/17/02 AM
o-Xylene	ND	1	5	ug/L	09/17/02 AM
p-Isopropyltoluene	ND	1	5	ug/L	09/17/02 AM
Pentachloroethane	ND	1	5	ug/L	09/17/02 AM
Propionitrile	ND	1	100	ug/L	09/17/02 AM
sec-Butylbenzene	ND	1	5	ug/L	09/17/02 AM
Styrene	ND	1	5	ug/L	09/17/02 AM
tert-Butylbenzene	ND	1	5	ug/L	09/17/02 AM
Tetrachloroethene	844	10	50.0	ug/L	09/18/02 AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 377176
Matrix: WATER
Date Sampled: 09/11/2002
Time Sampled: 12:20
Sampled By:

Client: Converse Consultants
Client Sample ID: MW-3

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Toluene	ND	1	5	ug/L	09/17/02 AM
trans-1,2-Dichloroethene	ND	1	5	ug/L	09/17/02 AM
trans-1,3-Dichloropropene	ND	1	5	ug/L	09/17/02 AM
trans-1,4-Dichloro-2-butene	ND	1	20	ug/L	09/17/02 AM
Trichloroethene	114	1	5	ug/L	09/17/02 AM
Trichlorofluoromethane	ND	1	5	ug/L	09/17/02 AM
Vinyl acetate	ND	1	50	ug/L	09/17/02 AM
Vinyl chloride	ND	1	5	ug/L	09/17/02 AM
Xylenes, total	ND	1	5	ug/L	09/17/02 AM
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	113			%	70 - 130
Dibromofluoromethane (sur)	101			%	70 - 130
p-Bromofluorobenzene (sur)	98			%	70 - 130
Toluene-d8 (sur)	98			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 377177
Matrix: WATER
Date Sampled:
Time Sampled:
Sampled By:

Client: Converse Consultants
Client Sample ID: Laboratory Method Blank

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst
1,1,1,2-Tetrachloroethane	ND	1	5	ug/L	09/16/02 AM
1,1,1-Trichloroethane	ND	1	5	ug/L	09/16/02 AM
1,1,2,2-Tetrachloroethane	ND	1	5	ug/L	09/16/02 AM
1,1,2-Trichloroethane	ND	1	5	ug/L	09/16/02 AM
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/L	09/16/02 AM
1,1-Dichloroethane	ND	1	5	ug/L	09/16/02 AM
1,1-Dichloroethene	ND	1	5	ug/L	09/16/02 AM
1,1-Dichloropropene	ND	1	5	ug/L	09/16/02 AM
1,2,3-Trichlorobenzene	ND	1	5	ug/L	09/16/02 AM
1,2,3-Trichloropropane	ND	1	5	ug/L	09/16/02 AM
1,2,4-Trichlorobenzene	ND	1	5	ug/L	09/16/02 AM
1,2,4-Trimethylbenzene	ND	1	5	ug/L	09/16/02 AM
1,2-Dibromo-3-chloropropane	ND	1	5	ug/L	09/16/02 AM
1,2-Dibromoethane	ND	1	5	ug/L	09/16/02 AM
1,2-Dichlorobenzene	ND	1	5	ug/L	09/16/02 AM
1,2-Dichloroethane	ND	1	5	ug/L	09/16/02 AM
1,2-Dichloropropane	ND	1	5	ug/L	09/16/02 AM
1,3,5-Trimethylbenzene	ND	1	5	ug/L	09/16/02 AM
1,3-Dichlorobenzene	ND	1	5	ug/L	09/16/02 AM
1,3-Dichloropropane	ND	1	5	ug/L	09/16/02 AM
1,4-Dichlorobenzene	ND	1	5	ug/L	09/16/02 AM
1,4-Dioxane	ND	1	57	ug/L	09/16/02 AM
1-Chlorohexane	ND	1	5	ug/L	09/16/02 AM
2,2-Dichloropropane	ND	1	5	ug/L	09/16/02 AM
2-Butanone (MEK)	ND	1	100	ug/L	09/16/02 AM
2-Chloroethyl vinyl ether	ND	1	5	ug/L	09/16/02 AM
2-Chlorotoluene	ND	1	5	ug/L	09/16/02 AM
2-Hexanone	ND	1	20	ug/L	09/16/02 AM
4-Chlorotoluene	ND	1	5	ug/L	09/16/02 AM
4-Methyl -2- Pentanone	ND	1	10	ug/L	09/16/02 AM
Acetone	ND	1	100	ug/L	09/16/02 AM
Acetonitrile	ND	1	50	ug/L	09/16/02 AM
Acrolein	ND	1	200	ug/L	09/16/02 AM
Acrylonitrile	ND	1	10	ug/L	09/16/02 AM
Allyl chloride	ND	1	5	ug/L	09/16/02 AM
Benzene	ND	1	1	ug/L	09/16/02 AM
Benzyl chloride	ND	1	5	ug/L	09/16/02 AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order#: 377177
Matrix: WATER
Date Sampled:
Time Sampled:
Sampled By:

Client: Converse Consultants
Client Sample ID: Laboratory Method Blank

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/L	09/16/02 AM
Bromochloromethane	ND	1	5	ug/L	09/16/02 AM
Bromodichloromethane	ND	1	5	ug/L	09/16/02 AM
Bromoform	ND	1	5	ug/L	09/16/02 AM
Bromomethane	ND	1	5	ug/L	09/16/02 AM
Carbon Disulfide	ND	1	5	ug/L	09/16/02 AM
Carbon tetrachloride	ND	1	5	ug/L	09/16/02 AM
Chlorobenzene	ND	1	5	ug/L	09/16/02 AM
Chloroethane	ND	1	5	ug/L	09/16/02 AM
Chloroform	ND	1	5	ug/L	09/16/02 AM
Chloromethane	ND	1	5	ug/L	09/16/02 AM
cis-1,2-Dichloroethene	ND	1	5	ug/L	09/16/02 AM
cis-1,3-Dichloropropene	ND	1	5	ug/L	09/16/02 AM
cis-1,4-Dichloro-2-butene	ND	1	20	ug/L	09/16/02 AM
Dibromochloromethane	ND	1	5	ug/L	09/16/02 AM
Dibromomethane	ND	1	5	ug/L	09/16/02 AM
Dichlorodifluoromethane	ND	1	5	ug/L	09/16/02 AM
Ethyl benzene	ND	1	5	ug/L	09/16/02 AM
Ethyl methacrylate	ND	1	50	ug/L	09/16/02 AM
Hexachlorobutadiene	ND	1	5	ug/L	09/16/02 AM
Iodomethane	ND	1	5	ug/L	09/16/02 AM
Isopropylbenzene (Cumene)	ND	1	5	ug/L	09/16/02 AM
m and p-Xylene	ND	1	5	ug/L	09/16/02 AM
Methacrylonitrile	ND	1	35	ug/L	09/16/02 AM
Methyl methacrylate	ND	1	5	ug/L	09/16/02 AM
Methyl-tert-butylether (MTBE)	ND	1	1	ug/L	09/16/02 AM
Methylene chloride	ND	1	5	ug/L	09/16/02 AM
n-Butylbenzene	ND	1	5	ug/L	09/16/02 AM
n-Propylbenzene	ND	1	5	ug/L	09/16/02 AM
Naphthalene	ND	1	5	ug/L	09/16/02 AM
o-Xylene	ND	1	5	ug/L	09/16/02 AM
p-Isopropyltoluene	ND	1	5	ug/L	09/16/02 AM
Pentachloroethane	ND	1	5	ug/L	09/16/02 AM
Propionitrile	ND	1	100	ug/L	09/16/02 AM
sec-Butylbenzene	ND	1	5	ug/L	09/16/02 AM
Styrene	ND	1	5	ug/L	09/16/02 AM
tert-Butylbenzene	ND	1	5	ug/L	09/16/02 AM
Tetrachloroethene	ND	1	5	ug/L	09/16/02 AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order'#: 377177
Matrix: WATER
Date Sampled:
Time Sampled:
Sampled By:

Client: Converse Consultants
Client Sample ID: Laboratory Method Blank

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Toluene	ND	1	5	ug/L	09/16/02 AM
trans-1,2-Dichloroethene	ND	1	5	ug/L	09/16/02 AM
trans-1,3-Dichloropropene	ND	1	5	ug/L	09/16/02 AM
trans-1,4-Dichloro-2-butene	ND	1	20	ug/L	09/16/02 AM
Trichloroethene	ND	1	5	ug/L	09/16/02 AM
Trichlorofluoromethane	ND	1	5	ug/L	09/16/02 AM
Vinyl acetate	ND	1	50	ug/L	09/16/02 AM
Vinyl chloride	ND	1	5	ug/L	09/16/02 AM
Xylenes, total	ND	1	5	ug/L	09/16/02 AM
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	106			%	70 - 130
Dibromofluoromethane (sur)	98			%	70 - 130
p-Bromofluorobenzene (sur)	101			%	70 - 130
Toluene-d8 (sur)	100			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Water Samples

Analysis Date: 09/17/02

Applies to: LR 98856, 98916, 98851, 98858, 98917, 98873

Reporting Units = ug/L

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	43.97	50.57	88	101	14	22	59-172
MTBE	ND	50	45.66	44.28	91	89	3	24	62-137
Benzene	ND	50	49.61	50.76	99	102	2	24	62-137
Trichloroethene	ND	50	49.27	50.96	99	102	3	21	66-142
Toluene	ND	50	49.62	50.96	99	102	3	21	59-139
Chlorobenzene	ND	50	50.19	48.21	100	96	4	21	60-133

QC Sample: LCS # 1, 10:07 pm
Analysis Date: 09/16/02

LCS RECOVERY / METHOD BLANK

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC Limits %REC
1,1-Dichloroethene	ND	50	43.54	87	59-172
MTBE	ND	50	45.77	92	62-137
Benzene	ND	50	48.82	98	62-137
Trichloroethene	ND	50	48.03	96	66-142
Toluene	ND	50	49.19	98	59-139
Chlorobenzene	ND	50	46.86	94	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compound	LCS 1	MB 1	LCS	LCSD
1,2-Dichloroethane-d4	99	111	98	94
Dibromofluoromethane	104	101	104	102
Toluene-d8	98	101	96	100
p-Bromofluorobenzene	99	101	96	96

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Water Samples

Analysis Date: 09/18/02

Applies to: LR 98977, 98978, 98981, 98873

Reporting Units = ug/L

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	47.56	46.81	95	94	2	22	59-172
MTBE	ND	50	43.93	44.50	88	89	1	24	62-137
Benzene	ND	50	45.32	46.32	91	93	2	24	62-137
Trichloroethene	ND	50	50.82	49.39	102	99	3	21	66-142
Toluene	ND	50	48.45	49.75	97	100	3	21	59-139
Chlorobenzene	ND	50	46.02	46.80	92	94	2	21	60-133

QC Sample: LCS # 1, 1:19 am
Analysis Date: 09/18/02

LCS RECOVERY / METHOD BLANK

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC Limits %REC
1,1-Dichloroethene	ND	50	46.82	94	59-172
MTBE	ND	50	45.49	91	62-137
Benzene	ND	50	45.07	90	62-137
Trichloroethene	ND	50	51.12	102	66-142
Toluene	ND	50	47.99	96	59-139
Chlorobenzene	ND	50	44.66	89	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compound	LCS 1	MB 1	LCS	LCSD
1,2-Dichloroethane-d4	106	104	102	106
Dibromofluoromethane	102	99	102	99
Toluene-d8	106	111	108	107
p-Bromofluorobenzene	108	108	107	108

SEP 25 2002

Cooler Receipt Form

Client: Converse Project: Crown Cleaners
Date Cooler Received: 9/11/02 Date Cooler Opened: 9/11/02

Was cooler scanned for presence of radioactivity? (Yes) / No
a: Was radioactivity results above 25cpm? Yes / (No)

If cooler had custody seal(s), were they signed and intact? (NA) / Yes / No

Was a shipper's packing slip attached to the cooler? Yes / No

Cooler was packed with: Ice ✓ Ice Packs____ Bubble Wrap____ Styrofoam____
Paper____ None____ Other_____

Temperature of cooler: [illegible] 6.7
*Cooler needs to be received @ 4°C with an acceptable range of 2°-6°C

Were all samples sealed in plastic bags? (Yes) / No

Did all samples arrive intact? If no, see below (Yes) / No

Were all samples labeled correctly? (ID, Dates, Times) If no, see below (Yes) / No

Can the tests required be run with provided containers? If no, see below (Yes) / No

Was sufficient volume of sample sent in all containers? (Yes) / No

Were any VOA vials received with headspace? NA / (Yes) / No

Were correct preservatives used? NA / (Yes) / No
*If no, see pH Log for a list of samples and container pH.

Any other important information: _____

_____

_____

Signed: OK Date: 9/11/02

SEP 25 2002

ASSOCIATED LABORATORIES

806 N. Batavia • Orange, CA 92868
(714) 771-6900 • Fax: (714) 538-1209

CHAIN OF CUSTODY RECORD

Date 9/11/02 Page 1 of 1

98873

CLIENT Converse Consultants
ADDRESS 195 E. Paularino #B
Costa Mesa, CA 92626

PROJECT MANAGER WILLIAM RAGSDALE
PHONE NUMBER (714) 444-9660
SAMPLERS: (Signature) (714) 444-9640

PROJECT NAME
CROWN CLEANERS

Samples Intact Yes ✓ No ____
County Seals Intact Yes ____ No ✓
Sample Ambient ✓ Cooled ___ Frozen ___
Same Day ____ 24 Hr. ____
Regular X 48 Hr. ____

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	SAMPLE TYPE AIR	SAMPLE TYPE SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
MW-5	Front	9/11/02	11:06	X			3 VOA		8260 (VOC)
MW-6	Front, Planters		11:18	X			3 VOA		
MW-7	Side		11:28	X			3 VOA		
MW-1	Back		11:40	X			3 VOA		
MW-4	Inside, center		11:50	X			3 VOA		
MW-3	Inside, rear		12:20	X			2 VOA		

Relinquished by: (Signature) Andy Nelson
Received by: (Signature) Wendy Kennard
Date/Time 9/11/02 203

Relinquished by: (Signature)
Received by Laboratory for analysis: (Signature) 9-12-02 9:50
Date/Time

Special Instructions:

I hereby authorize the performance of the above indicated work.

Andy Nelson

DISTRIBUTION: White with report. Yellow to AL, Pink to Courier

SEP 25 2002

CHAIN OF CUSTODY

Orange County Health Care Agency
Environmental Health Division
2009 E. Edinger Ave., Santa Ana, CA 92705
Telephone: (714) 667-3700

1. **ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.**

2. **PLEASE WRITE LEGIBLY.**

3. **ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.**

4. **TO BE COMPLETED BY LABORATORY ANALYST**

LAB NO.: LK 95194

DATE RECEIVED: 6-25-02

SAMPLE(S) CONDITION (PLEASE CHECK):

CHILLED: ✓ COUNTY SEAL(S) INTACT: Y

CONTAINER IN GOOD CONDITION: Y

DATE ANALYSIS COMPLETED: 6-25-02

ANALYST: DP

5. **TO BE COMPLETED BY SAMPLE COLLECTOR**

SITE NAME/ADDRESS: Crown Cleaners
Brookhurst/Katella F. V.

DATE OF COLLECTION: 6-25-02

SAMPLE COLLECTOR/COMPANY: Converse
William Ragsdale

TELEPHONE NO.:

HCA REPRESENTATIVE: Luis Rodriguez

6.

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS			TIME OF COLLECTION
CF-1A-NW	EPA method 8260 (VOCs)				2:45 PM
CF2A-SW					↓
CF3A-EW	CF8BEW	CF13CEW	CF18DEW	CF23EEW	
CF4A-WW	CF9BWW	CF14CWW	CF19DWW	CF24EWW	
CF5AB	CF10BB	CF15CB	CF20DB	CF25EB	
CF6BNW	CF11CNW	CF16DNW	CF21ENW		↓
CF7BSW	CF12CSW	CF17DSW	CF22ESW		↓

7. **CHAIN OF CUSTODY**

	SIGNATURE	COMPANY/AGENCY	INCLUSIVE DATES/TIMES
1.		HCA HEHD	6-25-02. 3:27 PM
2.		Converse Consultants	6/25/02. 3:21 PM
3.		Associated Labs	6-25-02 -
4.			-
5.			-
6.			-

WHITE-RETURN THIS COPY TO ENVIRONMENTAL HEALTH, CANARY-LABORATORY COPY
PINK-CONTRACTOR/CONSULTANT COPY, GOLDENROD-OFFICE COPY

F272-9.1531.1(R8/89) CRS

CHAIN OF CUSTODY

Orange County Health Care Agency
Environmental Health Division
2009 E. Edinger Ave., Santa Ana, CA 92705
Telephone: (714) 667-3700

1. **ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.**

2. **PLEASE WRITE LEGIBLY.**

3. **ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.**

4. **TO BE COMPLETED BY LABORATORY ANALYST**

LAB NO.: _____

DATE RECEIVED: _____

SAMPLE(S) CONDITION (PLEASE CHECK):

CHILLED: _____ **COUNTY SEAL(S) INTACT:** _____

CONTAINER IN GOOD CONDITION: _____

DATE ANALYSIS COMPLETED: _____

ANALYST: _____

5. **TO BE COMPLETED BY SAMPLE COLLECTOR**

SITE NAME/ADDRESS: Crown Cleaners
Brea Mall/[illegible] S. V.

DATE OF COLLECTION: 6-25-02

SAMPLE COLLECTOR/COMPANY: [illegible]
Weiss Associates

TELEPHONE NO.: _____

HCA REPRESENTATIVE: Luis Rodriguez

6.

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS	TIME OF COLLECTION
CF-1A-NW	EPA Method 8260 (VOC)		2:45 PM
CF-2A-SW			"
CF-3A-EW	CF 8B EW	CF 13C EW CF 19D EW CF 23E EW	
CF-4A-WW	CF 9B WW	CF 14C WW CF 19D WW CF 24E WW	
CF-5A-B	CF 10 BB	CF 15C B CF 20D B CF 24E B	
CF-6B-NW	CF 11C NW	CF 16D NW CF 21E NW	"
CF-7B-SW	CF 12C SW	CF 17D SW CF 22E SW	"

7. **CHAIN OF CUSTODY**

	SIGNATURE	COMPANY/AGENCY	INCLUSIVE DATES/TIMES
1.	[signature]	HCA (EHD)	6-25-02 - 3:31 PM
2.	[signature]	(Weiss Associates)	-
3.			-
4.			-
5.			-
6.			-

WHITE-RETURN THIS COPY TO ENVIRONMENTAL HEALTH, CANARY-LABORATORY COPY
PINK-CONTRACTOR/CONSULTANT COPY, GOLDENROD-OFFICE COPY

F272-9.1531.1(R8/89) CRS

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 FAX 714/538-1209

CLIENT Converse Consultants (4708)
ATTN: William Ragsdale
185 E. Paularino Avenue
Suite B
Costa Mesa, CA 92626

LAB REQUEST 95194
REPORTED 07/01/2002
RECEIVED 06/25/2002

PROJECT #00-42-703-02
Donahue Schriber/Crown

SUBMITTER Client

COMMENTS "J" denotes value between MDL and DLR.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
361380	CF1ANW
361381	CF2ASW
361382	CF3AEW
361383	CF4AWW
361384	CF5AB
361385	CF6BNW
361386	CF7BSW
361387	CF8BEW
361388	CF9BWW
361389	CF10BB
361390	CF11CNW

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

for Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

CLIENT Converse Consultants (4708)
ATTN: William Ragsdale
185 E. Paularino Avenue
Suite B
Costa Mesa, CA 92626

LAB REQUEST 95194
REPORTED 07/01/2002
RECEIVED 06/25/2002

PROJECT #00-42-703-02
Donahue Schriber/Crown

SUBMITTER Client

COMMENTS "J" denotes value between MDL and DLR.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
361391	CF12CSW
361392	CF13CEW
361393	CF14CWW
361394	CF15CB
361395	CF16DNW
361396	CF17DSW
361397	CF18DEW
361398	CF19DWW
361399	CF20DB
361400	CF21ENW
361401	CF22ESW
361402	CF23EEW
361403	CF24EWW
361404	CF25EB
361405	Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

for Edward S. Behare, Ph.D.
Vice President

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 361380
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:45
Sampled By:

Client: Converse Consultants
Client Sample ID: CF1ANW

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/25/02	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,4-Dioxane	ND	1	200	ug/Kg	06/25/02	DP
1-Chlorohexane	ND	1	5	ug/Kg	06/25/02	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/25/02	DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/25/02	DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/25/02	DP
2-Hexanone	ND	1	5	ug/Kg	06/25/02	DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/25/02	DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/25/02	DP
Acetone	ND	1	5	ug/Kg	06/25/02	DP
Acetonitrile	ND	1	5	ug/Kg	06/25/02	DP
Acrolein	ND	1	200	ug/Kg	06/25/02	DP
Acrylonitrile	ND	1	5	ug/Kg	06/25/02	DP
Allyl chloride	ND	1	5	ug/Kg	06/25/02	DP
Benzene	ND	1	5	ug/Kg	06/25/02	DP
Benzyl chloride	ND	1	5	ug/Kg	06/25/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361380
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:45
Sampled By:

Client: Converse Consultants
Client Sample ID: CF1ANW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/25/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromoform	ND	1	5	ug/Kg	06/25/02 DP
Bromomethane	ND	1	5	ug/Kg	06/25/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/25/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/25/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
Chloroethane	ND	1	5	ug/Kg	06/25/02 DP
Chloroform	ND	1	5	ug/Kg	06/25/02 DP
Chloromethane	ND	1	5	ug/Kg	06/25/02 DP
cis-1,2-Dichloroethene	7.4	1	5	ug/Kg	06/25/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/25/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/25/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/25/02 DP
Iodomethane	ND	1	5	ug/Kg	06/25/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/25/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/25/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/25/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Naphthalene	ND	1	5	ug/Kg	06/25/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/25/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/25/02 DP
Propionitrile	ND	1	5	ug/Kg	06/25/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Styrene	ND	1	5	ug/Kg	06/25/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Tetrachloroethene	4.6 J	1	5	ug/Kg	06/25/02 DP
Toluene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361380
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:45
Sampled By:

Client: Converse Consultants
Client Sample ID: CF1ANW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Trichloroethene	86	1	5	ug/Kg	06/25/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/25/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/25/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	95			%	70 - 130
Dibromofluoromethane (sur)	93			%	70 - 130
p-Bromofluorobenzene (sur)	103			%	70 - 130
Toluene-d8 (sur)	103			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361381 **Client:** Converse Consultants
Matrix: SOLID **Client Sample ID:** CF2ASW
Date Sampled: 06/25/2002
Time Sampled: 14:46
Sampled By:

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/25/02	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,4-Dioxane	ND	1	200	ug/Kg	06/25/02	DP
1-Chlorohexane	ND	1	5	ug/Kg	06/25/02	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/25/02	DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/25/02	DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/25/02	DP
2-Hexanone	ND	1	5	ug/Kg	06/25/02	DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/25/02	DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/25/02	DP
Acetone	ND	1	5	ug/Kg	06/25/02	DP
Acetonitrile	ND	1	5	ug/Kg	06/25/02	DP
Acrolein	ND	1	200	ug/Kg	06/25/02	DP
Acrylonitrile	ND	1	5	ug/Kg	06/25/02	DP
Allyl chloride	ND	1	5	ug/Kg	06/25/02	DP
Benzene	ND	1	5	ug/Kg	06/25/02	DP
Benzyl chloride	ND	1	5	ug/Kg	06/25/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361381 **Client:** Converse Consultants
Matrix: SOLID **Client Sample ID:** CF2ASW
Date Sampled: 06/25/2002
Time Sampled: 14:46
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/25/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromoform	ND	1	5	ug/Kg	06/25/02 DP
Bromomethane	ND	1	5	ug/Kg	06/25/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/25/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/25/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
Chloroethane	ND	1	5	ug/Kg	06/25/02 DP
Chloroform	ND	1	5	ug/Kg	06/25/02 DP
Chloromethane	ND	1	5	ug/Kg	06/25/02 DP
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/25/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/25/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/25/02 DP
Iodomethane	ND	1	5	ug/Kg	06/25/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/25/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/25/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/25/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Naphthalene	ND	1	5	ug/Kg	06/25/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/25/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/25/02 DP
Propionitrile	ND	1	5	ug/Kg	06/25/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Styrene	ND	1	5	ug/Kg	06/25/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Tetrachloroethene	1,900	1	5	ug/Kg	06/25/02 DP
Toluene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361381
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:46
Sampled By:

Client: Converse Consultants
Client Sample ID: CF2ASW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Trichloroethene	22	1	5	ug/Kg	06/25/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/25/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/25/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	95			%	70 - 130
Dibromofluoromethane (sur)	89			%	70 - 130
p-Bromofluorobenzene (sur)	106			%	70 - 130
Toluene-d8 (sur)	103			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361382
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:47
Sampled By:

Client: Converse Consultants
Client Sample ID: CF3AEW

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02 DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,4-Dioxane	ND	1	200	ug/Kg	06/25/02 DP
1-Chlorohexane	ND	1	5	ug/Kg	06/25/02 DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/25/02 DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/25/02 DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/25/02 DP
2-Hexanone	ND	1	5	ug/Kg	06/25/02 DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/25/02 DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/25/02 DP
Acetone	ND	1	5	ug/Kg	06/25/02 DP
Acetonitrile	ND	1	5	ug/Kg	06/25/02 DP
Acrolein	ND	1	200	ug/Kg	06/25/02 DP
Acrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Allyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Benzene	ND	1	5	ug/Kg	06/25/02 DP
Benzyl chloride	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361382
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:47
Sampled By:

Client: Converse Consultants
Client Sample ID: CF3AEW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/25/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromoform	ND	1	5	ug/Kg	06/25/02 DP
Bromomethane	ND	1	5	ug/Kg	06/25/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/25/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/25/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
Chloroethane	ND	1	5	ug/Kg	06/25/02 DP
Chloroform	ND	1	5	ug/Kg	06/25/02 DP
Chloromethane	ND	1	5	ug/Kg	06/25/02 DP
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/25/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/25/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/25/02 DP
Iodomethane	ND	1	5	ug/Kg	06/25/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/25/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/25/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/25/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Naphthalene	ND	1	5	ug/Kg	06/25/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/25/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/25/02 DP
Propionitrile	ND	1	5	ug/Kg	06/25/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Styrene	ND	1	5	ug/Kg	06/25/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Tetrachloroethene	4,480	1	5	ug/Kg	06/25/02 DP
Toluene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361382
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:47
Sampled By:

Client: Converse Consultants
Client Sample ID: CF3AEW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Trichloroethene	24	1	5	ug/Kg	06/25/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/25/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/25/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	102			%	70 - 130
Dibromofluoromethane (sur)	92			%	70 - 130
p-Bromofluorobenzene (sur)	106			%	70 - 130
Toluene-d8 (sur)	101			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361383
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:50
Sampled By:

Client: Converse Consultants
Client Sample ID: CF4AWW

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02 DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,4-Dioxane	ND	1	200	ug/Kg	06/25/02 DP
1-Chlorohexane	ND	1	5	ug/Kg	06/25/02 DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/25/02 DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/25/02 DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/25/02 DP
2-Hexanone	ND	1	5	ug/Kg	06/25/02 DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/25/02 DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/25/02 DP
Acetone	ND	1	5	ug/Kg	06/25/02 DP
Acetonitrile	ND	1	5	ug/Kg	06/25/02 DP
Acrolein	ND	1	200	ug/Kg	06/25/02 DP
Acrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Allyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Benzene	ND	1	5	ug/Kg	06/25/02 DP
Benzyl chloride	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361383 **Client:** Converse Consultants
Matrix: SOLID **Client Sample ID:** CF4AWW
Date Sampled: 06/25/2002
Time Sampled: 14:50
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/25/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromoform	ND	1	5	ug/Kg	06/25/02 DP
Bromomethane	ND	1	5	ug/Kg	06/25/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/25/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/25/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
Chloroethane	ND	1	5	ug/Kg	06/25/02 DP
Chloroform	ND	1	5	ug/Kg	06/25/02 DP
Chloromethane	ND	1	5	ug/Kg	06/25/02 DP
cis-1,2-Dichloroethene	19	1	5	ug/Kg	06/25/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/25/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/25/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/25/02 DP
Iodomethane	ND	1	5	ug/Kg	06/25/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/25/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/25/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/25/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Naphthalene	ND	1	5	ug/Kg	06/25/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/25/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/25/02 DP
Propionitrile	ND	1	5	ug/Kg	06/25/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Styrene	ND	1	5	ug/Kg	06/25/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Tetrachloroethene	649	1	5	ug/Kg	06/25/02 DP
Toluene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361383
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:50
Sampled By:

Client: Converse Consultants
Client Sample ID: CF4AWW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Trichloroethene	169	1	5	ug/Kg	06/25/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/25/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/25/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	95			%	70 - 130
Dibromofluoromethane (sur)	90			%	70 - 130
p-Bromofluorobenzene (sur)	102			%	70 - 130
Toluene-d8 (sur)	104			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361384
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:51
Sampled By:

Client: Converse Consultants
Client Sample ID: CF5AB

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/25/02	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,4-Dioxane	ND	1	200	ug/Kg	06/25/02	DP
1-Chlorohexane	ND	1	5	ug/Kg	06/25/02	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/25/02	DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/25/02	DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/25/02	DP
2-Hexanone	ND	1	5	ug/Kg	06/25/02	DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/25/02	DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/25/02	DP
Acetone	ND	1	5	ug/Kg	06/25/02	DP
Acetonitrile	ND	1	5	ug/Kg	06/25/02	DP
Acrolein	ND	1	200	ug/Kg	06/25/02	DP
Acrylonitrile	ND	1	5	ug/Kg	06/25/02	DP
Allyl chloride	ND	1	5	ug/Kg	06/25/02	DP
Benzene	ND	1	5	ug/Kg	06/25/02	DP
Benzyl chloride	ND	1	5	ug/Kg	06/25/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361384
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:51
Sampled By:

Client: Converse Consultants
Client Sample ID: CF5AB

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/25/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromoform	ND	1	5	ug/Kg	06/25/02 DP
Bromomethane	ND	1	5	ug/Kg	06/25/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/25/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/25/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
Chloroethane	ND	1	5	ug/Kg	06/25/02 DP
Chloroform	ND	1	5	ug/Kg	06/25/02 DP
Chloromethane	ND	1	5	ug/Kg	06/25/02 DP
cis-1,2-Dichloroethene	6.9	1	5	ug/Kg	06/25/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/25/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/25/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/25/02 DP
Iodomethane	ND	1	5	ug/Kg	06/25/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/25/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/25/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/25/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Naphthalene	ND	1	5	ug/Kg	06/25/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/25/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/25/02 DP
Propionitrile	ND	1	5	ug/Kg	06/25/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Styrene	ND	1	5	ug/Kg	06/25/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Tetrachloroethene	1,030	1	5	ug/Kg	06/25/02 DP
Toluene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361384
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:51
Sampled By:

Client: Converse Consultants
Client Sample ID: CF5AB

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Trichloroethene	59	1	5	ug/Kg	06/25/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/25/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/25/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	107			%	70 - 130
Dibromofluoromethane (sur)	94			%	70 - 130
p-Bromofluorobenzene (sur)	105			%	70 - 130
Toluene-d8 (sur)	104			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361385 **Client:** Converse Consultants
Matrix: SOLID **Client Sample ID:** CF6BNW
Date Sampled: 06/25/2002
Time Sampled: 14:53
Sampled By:

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02 DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,4-Dioxane	ND	1	200	ug/Kg	06/25/02 DP
1-Chlorohexane	ND	1	5	ug/Kg	06/25/02 DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/25/02 DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/25/02 DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/25/02 DP
2-Hexanone	ND	1	5	ug/Kg	06/25/02 DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/25/02 DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/25/02 DP
Acetone	ND	1	5	ug/Kg	06/25/02 DP
Acetonitrile	ND	1	5	ug/Kg	06/25/02 DP
Acrolein	ND	1	200	ug/Kg	06/25/02 DP
Acrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Allyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Benzene	ND	1	5	ug/Kg	06/25/02 DP
Benzyl chloride	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361385
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:53
Sampled By:

Client: Converse Consultants
Client Sample ID: CF6BNW

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Bromobenzene	ND	1	5	ug/Kg	06/25/02	DP
Bromochloromethane	ND	1	5	ug/Kg	06/25/02	DP
Bromodichloromethane	ND	1	5	ug/Kg	06/25/02	DP
Bromoform	ND	1	5	ug/Kg	06/25/02	DP
Bromomethane	ND	1	5	ug/Kg	06/25/02	DP
Carbon Disulfide	ND	1	5	ug/Kg	06/25/02	DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/25/02	DP
Chlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
Chloroethane	ND	1	5	ug/Kg	06/25/02	DP
Chloroform	ND	1	5	ug/Kg	06/25/02	DP
Chloromethane	ND	1	5	ug/Kg	06/25/02	DP
cis-1,2-Dichloroethene	7.3	1	5	ug/Kg	06/25/02	DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02	DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02	DP
Dibromochloromethane	ND	1	5	ug/Kg	06/25/02	DP
Dibromomethane	ND	1	5	ug/Kg	06/25/02	DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/25/02	DP
Ethyl benzene	ND	1	5	ug/Kg	06/25/02	DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/25/02	DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/25/02	DP
Iodomethane	ND	1	5	ug/Kg	06/25/02	DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/25/02	DP
Methacrylonitrile	ND	1	5	ug/Kg	06/25/02	DP
Methyl methacrylate	ND	1	5	ug/Kg	06/25/02	DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/25/02	DP
Methylene chloride	ND	1	5	ug/Kg	06/25/02	DP
n-Butylbenzene	ND	1	5	ug/Kg	06/25/02	DP
n-Propylbenzene	ND	1	5	ug/Kg	06/25/02	DP
Naphthalene	ND	1	5	ug/Kg	06/25/02	DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/25/02	DP
Pentachloroethane	ND	1	5	ug/Kg	06/25/02	DP
Propionitrile	ND	1	5	ug/Kg	06/25/02	DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/25/02	DP
Styrene	ND	1	5	ug/Kg	06/25/02	DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/25/02	DP
Tetrachloroethene	2,610	1	5	ug/Kg	06/25/02	DP
Toluene	ND	1	5	ug/Kg	06/25/02	DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361385
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:53
Sampled By:

Client: Converse Consultants
Client Sample ID: CF6BNW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Trichloroethene	83	1	5	ug/Kg	06/25/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/25/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/25/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	95			%	70 - 130
Dibromofluoromethane (sur)	91			%	70 - 130
p-Bromofluorobenzene (sur)	104			%	70 - 130
Toluene-d8 (sur)	103			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361386
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:54
Sampled By:

Client: Converse Consultants
Client Sample ID: CF7BSW

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/25/02	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,4-Dioxane	ND	1	200	ug/Kg	06/25/02	DP
1-Chlorohexane	ND	1	5	ug/Kg	06/25/02	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/25/02	DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/25/02	DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/25/02	DP
2-Hexanone	ND	1	5	ug/Kg	06/25/02	DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/25/02	DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/25/02	DP
Acetone	ND	1	5	ug/Kg	06/25/02	DP
Acetonitrile	ND	1	5	ug/Kg	06/25/02	DP
Acrolein	ND	1	200	ug/Kg	06/25/02	DP
Acrylonitrile	ND	1	5	ug/Kg	06/25/02	DP
Allyl chloride	ND	1	5	ug/Kg	06/25/02	DP
Benzene	ND	1	5	ug/Kg	06/25/02	DP
Benzyl chloride	ND	1	5	ug/Kg	06/25/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361386 **Client:** Converse Consultants
Matrix: SOLID **Client Sample ID:** CF7BSW
Date Sampled: 06/25/2002
Time Sampled: 14:54
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Bromobenzene	ND	1	5	ug/Kg	06/25/02	DP
Bromochloromethane	ND	1	5	ug/Kg	06/25/02	DP
Bromodichloromethane	ND	1	5	ug/Kg	06/25/02	DP
Bromoform	ND	1	5	ug/Kg	06/25/02	DP
Bromomethane	ND	1	5	ug/Kg	06/25/02	DP
Carbon Disulfide	ND	1	5	ug/Kg	06/25/02	DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/25/02	DP
Chlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
Chloroethane	ND	1	5	ug/Kg	06/25/02	DP
Chloroform	ND	1	5	ug/Kg	06/25/02	DP
Chloromethane	ND	1	5	ug/Kg	06/25/02	DP
cis-1,2-Dichloroethene	12	1	5	ug/Kg	06/25/02	DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02	DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02	DP
Dibromochloromethane	ND	1	5	ug/Kg	06/25/02	DP
Dibromomethane	ND	1	5	ug/Kg	06/25/02	DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/25/02	DP
Ethyl benzene	ND	1	5	ug/Kg	06/25/02	DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/25/02	DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/25/02	DP
Iodomethane	ND	1	5	ug/Kg	06/25/02	DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/25/02	DP
Methacrylonitrile	ND	1	5	ug/Kg	06/25/02	DP
Methyl methacrylate	ND	1	5	ug/Kg	06/25/02	DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/25/02	DP
Methylene chloride	ND	1	5	ug/Kg	06/25/02	DP
n-Butylbenzene	ND	1	5	ug/Kg	06/25/02	DP
n-Propylbenzene	ND	1	5	ug/Kg	06/25/02	DP
Naphthalene	ND	1	5	ug/Kg	06/25/02	DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/25/02	DP
Pentachloroethane	ND	1	5	ug/Kg	06/25/02	DP
Propionitrile	ND	1	5	ug/Kg	06/25/02	DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/25/02	DP
Styrene	ND	1	5	ug/Kg	06/25/02	DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/25/02	DP
Tetrachloroethene	736	1	5	ug/Kg	06/25/02	DP
Toluene	ND	1	5	ug/Kg	06/25/02	DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361386
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:54
Sampled By:

Client: Converse Consultants
Client Sample ID: CF7BSW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Trichloroethene	38	1	5	ug/Kg	06/25/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/25/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/25/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	95			%	70 - 130
Dibromofluoromethane (sur)	90			%	70 - 130
p-Bromofluorobenzene (sur)	104			%	70 - 130
Toluene-d8 (sur)	101			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361387
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:55
Sampled By:

Client: Converse Consultants
Client Sample ID: CF8BEW

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/25/02	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,4-Dioxane	ND	1	200	ug/Kg	06/25/02	DP
1-Chlorohexane	ND	1	5	ug/Kg	06/25/02	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/25/02	DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/25/02	DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/25/02	DP
2-Hexanone	ND	1	5	ug/Kg	06/25/02	DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/25/02	DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/25/02	DP
Acetone	ND	1	5	ug/Kg	06/25/02	DP
Acetonitrile	ND	1	5	ug/Kg	06/25/02	DP
Acrolein	ND	1	200	ug/Kg	06/25/02	DP
Acrylonitrile	ND	1	5	ug/Kg	06/25/02	DP
Allyl chloride	ND	1	5	ug/Kg	06/25/02	DP
Benzene	ND	1	5	ug/Kg	06/25/02	DP
Benzyl chloride	ND	1	5	ug/Kg	06/25/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361387
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:55
Sampled By:

Client: Converse Consultants
Client Sample ID: CF8BEW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/25/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromoform	ND	1	5	ug/Kg	06/25/02 DP
Bromomethane	ND	1	5	ug/Kg	06/25/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/25/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/25/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
Chloroethane	ND	1	5	ug/Kg	06/25/02 DP
Chloroform	ND	1	5	ug/Kg	06/25/02 DP
Chloromethane	ND	1	5	ug/Kg	06/25/02 DP
cis-1,2-Dichloroethene	7.9	1	5	ug/Kg	06/25/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/25/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/25/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/25/02 DP
Iodomethane	ND	1	5	ug/Kg	06/25/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/25/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/25/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/25/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Naphthalene	ND	1	5	ug/Kg	06/25/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/25/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/25/02 DP
Propionitrile	ND	1	5	ug/Kg	06/25/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Styrene	ND	1	5	ug/Kg	06/25/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Tetrachloroethene	540	1	5	ug/Kg	06/25/02 DP
Toluene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361387
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:55
Sampled By:

Client: Converse Consultants
Client Sample ID: CF8BEW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Trichloroethene	30	1	5	ug/Kg	06/25/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/25/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/25/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	93			%	70 - 130
Dibromofluoromethane (sur)	87			%	70 - 130
p-Bromofluorobenzene (sur)	104			%	70 - 130
Toluene-d8 (sur)	99			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361388
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:56
Sampled By:

Client: Converse Consultants
Client Sample ID: CF9BWW

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02 DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,4-Dioxane	ND	1	200	ug/Kg	06/25/02 DP
1-Chlorohexane	ND	1	5	ug/Kg	06/25/02 DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/25/02 DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/25/02 DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/25/02 DP
2-Hexanone	ND	1	5	ug/Kg	06/25/02 DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/25/02 DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/25/02 DP
Acetone	ND	1	5	ug/Kg	06/25/02 DP
Acetonitrile	ND	1	5	ug/Kg	06/25/02 DP
Acrolein	ND	1	200	ug/Kg	06/25/02 DP
Acrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Allyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Benzene	ND	1	5	ug/Kg	06/25/02 DP
Benzyl chloride	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361388
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:56
Sampled By:

Client: Converse Consultants
Client Sample ID: CF9BWW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/25/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromoform	ND	1	5	ug/Kg	06/25/02 DP
Bromomethane	ND	1	5	ug/Kg	06/25/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/25/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/25/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
Chloroethane	ND	1	5	ug/Kg	06/25/02 DP
Chloroform	ND	1	5	ug/Kg	06/25/02 DP
Chloromethane	ND	1	5	ug/Kg	06/25/02 DP
cis-1,2-Dichloroethene	18	1	5	ug/Kg	06/25/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/25/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/25/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/25/02 DP
Iodomethane	ND	1	5	ug/Kg	06/25/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/25/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/25/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/25/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Naphthalene	ND	1	5	ug/Kg	06/25/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/25/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/25/02 DP
Propionitrile	ND	1	5	ug/Kg	06/25/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Styrene	ND	1	5	ug/Kg	06/25/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Tetrachloroethene	125	1	5	ug/Kg	06/25/02 DP
Toluene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361388
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:56
Sampled By:

Client: Converse Consultants
Client Sample ID: CF9BWW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Trichloroethene	24	1	5	ug/Kg	06/25/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/25/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/25/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	97			%	70 - 130
Dibromofluoromethane (sur)	91			%	70 - 130
p-Bromofluorobenzene (sur)	102			%	70 - 130
Toluene-d8 (sur)	99			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361389
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:57
Sampled By:

Client: Converse Consultants
Client Sample ID: CF10BB

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/26/02	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/26/02	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,4-Dioxane	ND	1	200	ug/Kg	06/26/02	DP
1-Chlorohexane	ND	1	5	ug/Kg	06/26/02	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/26/02	DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/26/02	DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/26/02	DP
2-Hexanone	ND	1	5	ug/Kg	06/26/02	DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/26/02	DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/26/02	DP
Acetone	ND	1	5	ug/Kg	06/26/02	DP
Acetonitrile	ND	1	5	ug/Kg	06/26/02	DP
Acrolein	ND	1	200	ug/Kg	06/26/02	DP
Acrylonitrile	ND	1	5	ug/Kg	06/26/02	DP
Allyl chloride	ND	1	5	ug/Kg	06/26/02	DP
Benzene	ND	1	5	ug/Kg	06/26/02	DP
Benzyl chloride	ND	1	5	ug/Kg	06/26/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361389
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:57
Sampled By:

Client: Converse Consultants
Client Sample ID: CF10BB

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/26/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/26/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/26/02 DP
Bromoform	ND	1	5	ug/Kg	06/26/02 DP
Bromomethane	ND	1	5	ug/Kg	06/26/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/26/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/26/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/26/02 DP
Chloroethane	ND	1	5	ug/Kg	06/26/02 DP
Chloroform	ND	1	5	ug/Kg	06/26/02 DP
Chloromethane	ND	1	5	ug/Kg	06/26/02 DP
cis-1,2-Dichloroethene	1.4 J	1	5	ug/Kg	06/26/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/26/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/26/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/26/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/26/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/26/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/26/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/26/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/26/02 DP
Iodomethane	ND	1	5	ug/Kg	06/26/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/26/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/26/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/26/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/26/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/26/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Naphthalene	ND	1	5	ug/Kg	06/26/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/26/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/26/02 DP
Propionitrile	ND	1	5	ug/Kg	06/26/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Styrene	ND	1	5	ug/Kg	06/26/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Tetrachloroethene	363	1	5	ug/Kg	06/26/02 DP
Toluene	ND	1	5	ug/Kg	06/26/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/26/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361389
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:57
Sampled By:

Client: Converse Consultants
Client Sample ID: CF10BB

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/26/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/26/02 DP
Trichloroethene	9.9	1	5	ug/Kg	06/26/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/26/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/26/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/26/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/26/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	105			%	70 - 130
Dibromofluoromethane (sur)	96			%	70 - 130
p-Bromofluorobenzene (sur)	101			%	70 - 130
Toluene-d8 (sur)	94			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361390
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:59
Sampled By:

Client: Converse Consultants
Client Sample ID: CF11CNW

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/26/02	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/26/02	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,4-Dioxane	ND	1	200	ug/Kg	06/26/02	DP
1-Chlorohexane	ND	1	5	ug/Kg	06/26/02	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/26/02	DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/26/02	DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/26/02	DP
2-Hexanone	ND	1	5	ug/Kg	06/26/02	DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/26/02	DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/26/02	DP
Acetone	ND	1	5	ug/Kg	06/26/02	DP
Acetonitrile	ND	1	5	ug/Kg	06/26/02	DP
Acrolein	ND	1	200	ug/Kg	06/26/02	DP
Acrylonitrile	ND	1	5	ug/Kg	06/26/02	DP
Allyl chloride	ND	1	5	ug/Kg	06/26/02	DP
Benzene	ND	1	5	ug/Kg	06/26/02	DP
Benzyl chloride	ND	1	5	ug/Kg	06/26/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361390
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:59
Sampled By:

Client: Converse Consultants
Client Sample ID: CF11CNW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/26/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/26/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/26/02 DP
Bromoform	ND	1	5	ug/Kg	06/26/02 DP
Bromomethane	ND	1	5	ug/Kg	06/26/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/26/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/26/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/26/02 DP
Chloroethane	ND	1	5	ug/Kg	06/26/02 DP
Chloroform	ND	1	5	ug/Kg	06/26/02 DP
Chloromethane	ND	1	5	ug/Kg	06/26/02 DP
cis-1,2-Dichloroethene	29	1	5	ug/Kg	06/26/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/26/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/26/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/26/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/26/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/26/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/26/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/26/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/26/02 DP
Iodomethane	ND	1	5	ug/Kg	06/26/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/26/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/26/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/26/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/26/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/26/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Naphthalene	ND	1	5	ug/Kg	06/26/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/26/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/26/02 DP
Propionitrile	ND	1	5	ug/Kg	06/26/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Styrene	ND	1	5	ug/Kg	06/26/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Tetrachloroethene	427	1	5	ug/Kg	06/26/02 DP
Toluene	ND	1	5	ug/Kg	06/26/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/26/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361390
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 14:59
Sampled By:

Client: Converse Consultants
Client Sample ID: CF11CNW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/26/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/26/02 DP
Trichloroethene	149	1	5	ug/Kg	06/26/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/26/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/26/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/26/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/26/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	90			%	70 - 130
Dibromofluoromethane (sur)	88			%	70 - 130
p-Bromofluorobenzene (sur)	107			%	70 - 130
Toluene-d8 (sur)	100			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361391
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:01
Sampled By:

Client: Converse Consultants
Client Sample ID: CF12CSW

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/26/02	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/26/02	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,4-Dioxane	ND	1	200	ug/Kg	06/26/02	DP
1-Chlorohexane	ND	1	5	ug/Kg	06/26/02	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/26/02	DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/26/02	DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/26/02	DP
2-Hexanone	ND	1	5	ug/Kg	06/26/02	DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/26/02	DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/26/02	DP
Acetone	ND	1	5	ug/Kg	06/26/02	DP
Acetonitrile	ND	1	5	ug/Kg	06/26/02	DP
Acrolein	ND	1	200	ug/Kg	06/26/02	DP
Acrylonitrile	ND	1	5	ug/Kg	06/26/02	DP
Allyl chloride	ND	1	5	ug/Kg	06/26/02	DP
Benzene	ND	1	5	ug/Kg	06/26/02	DP
Benzyl chloride	ND	1	5	ug/Kg	06/26/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361391
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:01
Sampled By:

Client: Converse Consultants
Client Sample ID: CF12CSW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/26/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/26/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/26/02 DP
Bromoform	ND	1	5	ug/Kg	06/26/02 DP
Bromomethane	ND	1	5	ug/Kg	06/26/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/26/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/26/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/26/02 DP
Chloroethane	ND	1	5	ug/Kg	06/26/02 DP
Chloroform	ND	1	5	ug/Kg	06/26/02 DP
Chloromethane	ND	1	5	ug/Kg	06/26/02 DP
cis-1,2-Dichloroethene	4.0 J	1	5	ug/Kg	06/26/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/26/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/26/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/26/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/26/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/26/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/26/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/26/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/26/02 DP
Iodomethane	ND	1	5	ug/Kg	06/26/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/26/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/26/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/26/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/26/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/26/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Naphthalene	ND	1	5	ug/Kg	06/26/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/26/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/26/02 DP
Propionitrile	ND	1	5	ug/Kg	06/26/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Styrene	ND	1	5	ug/Kg	06/26/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Tetrachloroethene	1,030	1	5	ug/Kg	06/26/02 DP
Toluene	ND	1	5	ug/Kg	06/26/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/26/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361391
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:01
Sampled By:

Client: Converse Consultants
Client Sample ID: CF12CSW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/26/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/26/02 DP
Trichloroethene	42	1	5	ug/Kg	06/26/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/26/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/26/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/26/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/26/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	109			%	70 - 130
Dibromofluoromethane (sur)	110			%	70 - 130
p-Bromofluorobenzene (sur)	125			%	70 - 130
Toluene-d8 (sur)	98			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361392
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:02
Sampled By:

Client: Converse Consultants
Client Sample ID: CF13CEW

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02 DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,4-Dioxane	ND	1	200	ug/Kg	06/25/02 DP
1-Chlorohexane	ND	1	5	ug/Kg	06/25/02 DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/25/02 DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/25/02 DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/25/02 DP
2-Hexanone	ND	1	5	ug/Kg	06/25/02 DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/25/02 DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/25/02 DP
Acetone	ND	1	5	ug/Kg	06/25/02 DP
Acetonitrile	ND	1	5	ug/Kg	06/25/02 DP
Acrolein	ND	1	200	ug/Kg	06/25/02 DP
Acrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Allyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Benzene	ND	1	5	ug/Kg	06/25/02 DP
Benzyl chloride	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361392
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:02
Sampled By:

Client: Converse Consultants
Client Sample ID: CF13CEW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/25/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromoform	ND	1	5	ug/Kg	06/25/02 DP
Bromomethane	ND	1	5	ug/Kg	06/25/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/25/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/25/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
Chloroethane	ND	1	5	ug/Kg	06/25/02 DP
Chloroform	ND	1	5	ug/Kg	06/25/02 DP
Chloromethane	ND	1	5	ug/Kg	06/25/02 DP
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/25/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/25/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/25/02 DP
Iodomethane	ND	1	5	ug/Kg	06/25/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/25/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/25/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/25/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Naphthalene	ND	1	5	ug/Kg	06/25/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/25/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/25/02 DP
Propionitrile	ND	1	5	ug/Kg	06/25/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Styrene	ND	1	5	ug/Kg	06/25/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Tetrachloroethene	293	1	5	ug/Kg	06/25/02 DP
Toluene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361392
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:02
Sampled By:

Client: Converse Consultants
Client Sample ID: CF13CEW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Trichloroethene	7.4	1	5	ug/Kg	06/25/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/25/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/25/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	109			%	70 - 130
Dibromofluoromethane (sur)	109			%	70 - 130
p-Bromofluorobenzene (sur)	129			%	70 - 130
Toluene-d8 (sur)	100			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361393
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:03
Sampled By:

Client: Converse Consultants
Client Sample ID: CF14CWW

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/25/02	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,4-Dioxane	ND	1	200	ug/Kg	06/25/02	DP
1-Chlorohexane	ND	1	5	ug/Kg	06/25/02	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/25/02	DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/25/02	DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/25/02	DP
2-Hexanone	ND	1	5	ug/Kg	06/25/02	DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/25/02	DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/25/02	DP
Acetone	ND	1	5	ug/Kg	06/25/02	DP
Acetonitrile	ND	1	5	ug/Kg	06/25/02	DP
Acrolein	ND	1	200	ug/Kg	06/25/02	DP
Acrylonitrile	ND	1	5	ug/Kg	06/25/02	DP
Allyl chloride	ND	1	5	ug/Kg	06/25/02	DP
Benzene	ND	1	5	ug/Kg	06/25/02	DP
Benzyl chloride	ND	1	5	ug/Kg	06/25/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361393
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:03
Sampled By:

Client: Converse Consultants
Client Sample ID: CF14CWW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/25/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromoform	ND	1	5	ug/Kg	06/25/02 DP
Bromomethane	ND	1	5	ug/Kg	06/25/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/25/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/25/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
Chloroethane	ND	1	5	ug/Kg	06/25/02 DP
Chloroform	ND	1	5	ug/Kg	06/25/02 DP
Chloromethane	ND	1	5	ug/Kg	06/25/02 DP
cis-1,2-Dichloroethene	2.0 J	1	5	ug/Kg	06/25/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/25/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/25/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/25/02 DP
Iodomethane	ND	1	5	ug/Kg	06/25/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/25/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/25/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/25/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Naphthalene	ND	1	5	ug/Kg	06/25/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/25/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/25/02 DP
Propionitrile	ND	1	5	ug/Kg	06/25/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Styrene	ND	1	5	ug/Kg	06/25/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Tetrachloroethene	2,610	1	5	ug/Kg	06/25/02 DP
Toluene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361393
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:03
Sampled By:

Client: Converse Consultants
Client Sample ID: CF14CWW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Trichloroethene	100	1	5	ug/Kg	06/25/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/25/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/25/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	112			%	70 - 130
Dibromofluoromethane (sur)	108			%	70 - 130
p-Bromofluorobenzene (sur)	124			%	70 - 130
Toluene-d8 (sur)	99			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361394 **Client:** Converse Consultants
Matrix: SOLID **Client Sample ID:** CF15CB
Date Sampled: 06/25/2002
Time Sampled: 15:05
Sampled By:

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02 DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,4-Dioxane	ND	1	200	ug/Kg	06/25/02 DP
1-Chlorohexane	ND	1	5	ug/Kg	06/25/02 DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/25/02 DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/25/02 DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/25/02 DP
2-Hexanone	ND	1	5	ug/Kg	06/25/02 DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/25/02 DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/25/02 DP
Acetone	ND	1	5	ug/Kg	06/25/02 DP
Acetonitrile	ND	1	5	ug/Kg	06/25/02 DP
Acrolein	ND	1	200	ug/Kg	06/25/02 DP
Acrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Allyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Benzene	ND	1	5	ug/Kg	06/25/02 DP
Benzyl chloride	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361394
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:05
Sampled By:

Client: Converse Consultants
Client Sample ID: CF15CB

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/25/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromoform	ND	1	5	ug/Kg	06/25/02 DP
Bromomethane	ND	1	5	ug/Kg	06/25/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/25/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/25/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
Chloroethane	ND	1	5	ug/Kg	06/25/02 DP
Chloroform	ND	1	5	ug/Kg	06/25/02 DP
Chloromethane	ND	1	5	ug/Kg	06/25/02 DP
cis-1,2-Dichloroethene	6.5	1	5	ug/Kg	06/25/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/25/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/25/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/25/02 DP
Iodomethane	ND	1	5	ug/Kg	06/25/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/25/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/25/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/25/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Naphthalene	ND	1	5	ug/Kg	06/25/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/25/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/25/02 DP
Propionitrile	ND	1	5	ug/Kg	06/25/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Styrene	ND	1	5	ug/Kg	06/25/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Tetrachloroethene	1,200	1	5	ug/Kg	06/25/02 DP
Toluene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361394
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:05
Sampled By:

Client: Converse Consultants
Client Sample ID: CF15CB

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Trichloroethene	85	1	5	ug/Kg	06/25/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/25/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/25/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	118			%	70 - 130
Dibromofluoromethane (sur)	107			%	70 - 130
p-Bromofluorobenzene (sur)	124			%	70 - 130
Toluene-d8 (sur)	99			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361395
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:07
Sampled By:

Client: Converse Consultants
Client Sample ID: CF16DNW

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/25/02	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,4-Dioxane	ND	1	200	ug/Kg	06/25/02	DP
1-Chlorohexane	ND	1	5	ug/Kg	06/25/02	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/25/02	DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/25/02	DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/25/02	DP
2-Hexanone	ND	1	5	ug/Kg	06/25/02	DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/25/02	DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/25/02	DP
Acetone	ND	1	5	ug/Kg	06/25/02	DP
Acetonitrile	ND	1	5	ug/Kg	06/25/02	DP
Acrolein	ND	1	200	ug/Kg	06/25/02	DP
Acrylonitrile	ND	1	5	ug/Kg	06/25/02	DP
Allyl chloride	ND	1	5	ug/Kg	06/25/02	DP
Benzene	ND	1	5	ug/Kg	06/25/02	DP
Benzyl chloride	ND	1	5	ug/Kg	06/25/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361395
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:07
Sampled By:

Client: Converse Consultants
Client Sample ID: CF16DNW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/25/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromoform	ND	1	5	ug/Kg	06/25/02 DP
Bromomethane	ND	1	5	ug/Kg	06/25/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/25/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/25/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
Chloroethane	ND	1	5	ug/Kg	06/25/02 DP
Chloroform	ND	1	5	ug/Kg	06/25/02 DP
Chloromethane	ND	1	5	ug/Kg	06/25/02 DP
cis-1,2-Dichloroethene	10	1	5	ug/Kg	06/25/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/25/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/25/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/25/02 DP
Iodomethane	ND	1	5	ug/Kg	06/25/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/25/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/25/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/25/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Naphthalene	ND	1	5	ug/Kg	06/25/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/25/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/25/02 DP
Propionitrile	ND	1	5	ug/Kg	06/25/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Styrene	ND	1	5	ug/Kg	06/25/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Tetrachloroethene	2,990	1	5	ug/Kg	06/25/02 DP
Toluene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361395
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:07
Sampled By:

Client: Converse Consultants
Client Sample ID: CF16DNW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Trichloroethene	255	1	5	ug/Kg	06/25/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/25/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/25/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	113			%	70 - 130
Dibromofluoromethane (sur)	112			%	70 - 130
p-Bromofluorobenzene (sur)	130			%	70 - 130
Toluene-d8 (sur)	102			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361396
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:09
Sampled By:

Client: Converse Consultants
Client Sample ID: CF17DSW

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/25/02	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,4-Dioxane	ND	1	200	ug/Kg	06/25/02	DP
1-Chlorohexane	ND	1	5	ug/Kg	06/25/02	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/25/02	DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/25/02	DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/25/02	DP
2-Hexanone	ND	1	5	ug/Kg	06/25/02	DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/25/02	DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/25/02	DP
Acetone	ND	1	5	ug/Kg	06/25/02	DP
Acetonitrile	ND	1	5	ug/Kg	06/25/02	DP
Acrolein	ND	1	200	ug/Kg	06/25/02	DP
Acrylonitrile	ND	1	5	ug/Kg	06/25/02	DP
Allyl chloride	ND	1	5	ug/Kg	06/25/02	DP
Benzene	ND	1	5	ug/Kg	06/25/02	DP
Benzyl chloride	ND	1	5	ug/Kg	06/25/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361396 **Client:** Converse Consultants
Matrix: SOLID **Client Sample ID:** CF17DSW
Date Sampled: 06/25/2002
Time Sampled: 15:09
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/25/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromoform	ND	1	5	ug/Kg	06/25/02 DP
Bromomethane	ND	1	5	ug/Kg	06/25/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/25/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/25/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
Chloroethane	ND	1	5	ug/Kg	06/25/02 DP
Chloroform	ND	1	5	ug/Kg	06/25/02 DP
Chloromethane	ND	1	5	ug/Kg	06/25/02 DP
cis-1,2-Dichloroethene	1.3 J	1	5	ug/Kg	06/25/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/25/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/25/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/25/02 DP
Iodomethane	ND	1	5	ug/Kg	06/25/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/25/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/25/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/25/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Naphthalene	ND	1	5	ug/Kg	06/25/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/25/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/25/02 DP
Propionitrile	ND	1	5	ug/Kg	06/25/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Styrene	ND	1	5	ug/Kg	06/25/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Tetrachloroethene	182	1	5	ug/Kg	06/25/02 DP
Toluene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361396
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:09
Sampled By:

Client: Converse Consultants
Client Sample ID: CF17DSW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Trichloroethene	18	1	5	ug/Kg	06/25/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/25/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/25/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	108			%	70 - 130
Dibromofluoromethane (sur)	108			%	70 - 130
p-Bromofluorobenzene (sur)	123			%	70 - 130
Toluene-d8 (sur)	102			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361397
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:10
Sampled By:

Client: Converse Consultants
Client Sample ID: CF18DEW

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/25/02	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/25/02	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/25/02	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02	DP
1,4-Dioxane	ND	1	200	ug/Kg	06/25/02	DP
1-Chlorohexane	ND	1	5	ug/Kg	06/25/02	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/25/02	DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/25/02	DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/25/02	DP
2-Hexanone	ND	1	5	ug/Kg	06/25/02	DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/25/02	DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/25/02	DP
Acetone	ND	1	5	ug/Kg	06/25/02	DP
Acetonitrile	ND	1	5	ug/Kg	06/25/02	DP
Acrolein	ND	1	200	ug/Kg	06/25/02	DP
Acrylonitrile	ND	1	5	ug/Kg	06/25/02	DP
Allyl chloride	ND	1	5	ug/Kg	06/25/02	DP
Benzene	ND	1	5	ug/Kg	06/25/02	DP
Benzyl chloride	ND	1	5	ug/Kg	06/25/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361397
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:10
Sampled By:

Client: Converse Consultants
Client Sample ID: CF18DEW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/25/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromoform	ND	1	5	ug/Kg	06/25/02 DP
Bromomethane	ND	1	5	ug/Kg	06/25/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/25/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/25/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
Chloroethane	ND	1	5	ug/Kg	06/25/02 DP
Chloroform	ND	1	5	ug/Kg	06/25/02 DP
Chloromethane	ND	1	5	ug/Kg	06/25/02 DP
cis-1,2-Dichloroethene	18	1	5	ug/Kg	06/25/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/25/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/25/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/25/02 DP
Iodomethane	ND	1	5	ug/Kg	06/25/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/25/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/25/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/25/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Naphthalene	ND	1	5	ug/Kg	06/25/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/25/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/25/02 DP
Propionitrile	ND	1	5	ug/Kg	06/25/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Styrene	ND	1	5	ug/Kg	06/25/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Tetrachloroethene	682	1	5	ug/Kg	06/25/02 DP
Toluene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361397 **Client:** Converse Consultants
Matrix: SOLID **Client Sample ID:** CF18DEW
Date Sampled: 06/25/2002
Time Sampled: 15:10
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Trichloroethene	140	1	5	ug/Kg	06/25/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/25/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/25/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	110			%	70 - 130
Dibromofluoromethane (sur)	111			%	70 - 130
p-Bromofluorobenzene (sur)	126			%	70 - 130
Toluene-d8 (sur)	98			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361398
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:11
Sampled By:

Client: Converse Consultants
Client Sample ID: CF19DWW

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02 DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,4-Dioxane	ND	1	200	ug/Kg	06/25/02 DP
1-Chlorohexane	ND	1	5	ug/Kg	06/25/02 DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/25/02 DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/25/02 DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/25/02 DP
2-Hexanone	ND	1	5	ug/Kg	06/25/02 DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/25/02 DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/25/02 DP
Acetone	ND	1	5	ug/Kg	06/25/02 DP
Acetonitrile	ND	1	5	ug/Kg	06/25/02 DP
Acrolein	ND	1	200	ug/Kg	06/25/02 DP
Acrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Allyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Benzene	ND	1	5	ug/Kg	06/25/02 DP
Benzyl chloride	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361398
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:11
Sampled By:

Client: Converse Consultants
Client Sample ID: CF19DWW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/25/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromoform	ND	1	5	ug/Kg	06/25/02 DP
Bromomethane	ND	1	5	ug/Kg	06/25/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/25/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/25/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
Chloroethane	ND	1	5	ug/Kg	06/25/02 DP
Chloroform	ND	1	5	ug/Kg	06/25/02 DP
Chloromethane	ND	1	5	ug/Kg	06/25/02 DP
cis-1,2-Dichloroethene	3.4 J	1	5	ug/Kg	06/25/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/25/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/25/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/25/02 DP
Iodomethane	ND	1	5	ug/Kg	06/25/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/25/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/25/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/25/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Naphthalene	ND	1	5	ug/Kg	06/25/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/25/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/25/02 DP
Propionitrile	ND	1	5	ug/Kg	06/25/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Styrene	ND	1	5	ug/Kg	06/25/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Tetrachloroethene	1,310	1	5	ug/Kg	06/25/02 DP
Toluene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361398
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:11
Sampled By:

Client: Converse Consultants
Client Sample ID: CF19DWW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Trichloroethene	47	1	5	ug/Kg	06/25/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/25/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/25/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	103			%	70 - 130
Dibromofluoromethane (sur)	109			%	70 - 130
p-Bromofluorobenzene (sur)	125			%	70 - 130
Toluene-d8 (sur)	102			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361399 **Client:** Converse Consultants
Matrix: SOLID **Client Sample ID:** CF20DB
Date Sampled: 06/25/2002
Time Sampled: 15:12
Sampled By:

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/25/02 DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/25/02 DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
1,4-Dioxane	ND	1	200	ug/Kg	06/25/02 DP
1-Chlorohexane	ND	1	5	ug/Kg	06/25/02 DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/25/02 DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/25/02 DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/25/02 DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/25/02 DP
2-Hexanone	ND	1	5	ug/Kg	06/25/02 DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/25/02 DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/25/02 DP
Acetone	ND	1	5	ug/Kg	06/25/02 DP
Acetonitrile	ND	1	5	ug/Kg	06/25/02 DP
Acrolein	ND	1	200	ug/Kg	06/25/02 DP
Acrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Allyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Benzene	ND	1	5	ug/Kg	06/25/02 DP
Benzyl chloride	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361399 **Client:** Converse Consultants
Matrix: SOLID **Client Sample ID:** CF20DB
Date Sampled: 06/25/2002
Time Sampled: 15:12
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/25/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/25/02 DP
Bromoform	ND	1	5	ug/Kg	06/25/02 DP
Bromomethane	ND	1	5	ug/Kg	06/25/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/25/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/25/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/25/02 DP
Chloroethane	ND	1	5	ug/Kg	06/25/02 DP
Chloroform	ND	1	5	ug/Kg	06/25/02 DP
Chloromethane	ND	1	5	ug/Kg	06/25/02 DP
cis-1,2-Dichloroethene	1.8 J	1	5	ug/Kg	06/25/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/25/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/25/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/25/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/25/02 DP
Iodomethane	ND	1	5	ug/Kg	06/25/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/25/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/25/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/25/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/25/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/25/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Naphthalene	ND	1	5	ug/Kg	06/25/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/25/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/25/02 DP
Propionitrile	ND	1	5	ug/Kg	06/25/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Styrene	ND	1	5	ug/Kg	06/25/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/25/02 DP
Tetrachloroethene	824	1	5	ug/Kg	06/25/02 DP
Toluene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/25/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361399
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:12
Sampled By:

Client: Converse Consultants
Client Sample ID: CF20DB

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/25/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/25/02 DP
Trichloroethene	34	1	5	ug/Kg	06/25/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/25/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/25/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/25/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/25/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	107			%	70 - 130
Dibromofluoromethane (sur)	111			%	70 - 130
p-Bromofluorobenzene (sur)	125			%	70 - 130
Toluene-d8 (sur)	99			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361400 **Client:** Converse Consultants
Matrix: SOLID **Client Sample ID:** CF21ENW
Date Sampled: 06/25/2002
Time Sampled: 15:14
Sampled By:

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/26/02 DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/26/02 DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/26/02 DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/26/02 DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/26/02 DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/26/02 DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/26/02 DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/26/02 DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/26/02 DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/26/02 DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/26/02 DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/26/02 DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/26/02 DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/26/02 DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02 DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/26/02 DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/26/02 DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/26/02 DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02 DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/26/02 DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02 DP
1,4-Dioxane	ND	1	200	ug/Kg	06/26/02 DP
1-Chlorohexane	ND	1	5	ug/Kg	06/26/02 DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/26/02 DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/26/02 DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/26/02 DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/26/02 DP
2-Hexanone	ND	1	5	ug/Kg	06/26/02 DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/26/02 DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/26/02 DP
Acetone	ND	1	5	ug/Kg	06/26/02 DP
Acetonitrile	ND	1	5	ug/Kg	06/26/02 DP
Acrolein	ND	1	200	ug/Kg	06/26/02 DP
Acrylonitrile	ND	1	5	ug/Kg	06/26/02 DP
Allyl chloride	ND	1	5	ug/Kg	06/26/02 DP
Benzene	ND	1	5	ug/Kg	06/26/02 DP
Benzyl chloride	ND	1	5	ug/Kg	06/26/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361400 **Client:** Converse Consultants
Matrix: SOLID **Client Sample ID:** CF21ENW
Date Sampled: 06/25/2002
Time Sampled: 15:14
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/26/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/26/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/26/02 DP
Bromoform	ND	1	5	ug/Kg	06/26/02 DP
Bromomethane	ND	1	5	ug/Kg	06/26/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/26/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/26/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/26/02 DP
Chloroethane	ND	1	5	ug/Kg	06/26/02 DP
Chloroform	ND	1	5	ug/Kg	06/26/02 DP
Chloromethane	ND	1	5	ug/Kg	06/26/02 DP
cis-1,2-Dichloroethene	8.8	1	5	ug/Kg	06/26/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/26/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/26/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/26/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/26/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/26/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/26/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/26/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/26/02 DP
Iodomethane	ND	1	5	ug/Kg	06/26/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/26/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/26/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/26/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/26/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/26/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Naphthalene	ND	1	5	ug/Kg	06/26/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/26/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/26/02 DP
Propionitrile	ND	1	5	ug/Kg	06/26/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Styrene	ND	1	5	ug/Kg	06/26/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Tetrachloroethene	4,030	1	5	ug/Kg	06/26/02 DP
Toluene	ND	1	5	ug/Kg	06/26/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/26/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361400
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:14
Sampled By:

Client: Converse Consultants
Client Sample ID: CF21ENW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/26/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/26/02 DP
Trichloroethene	35	1	5	ug/Kg	06/26/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/26/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/26/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/26/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/26/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	99			%	70 - 130
Dibromofluoromethane (sur)	109			%	70 - 130
p-Bromofluorobenzene (sur)	121			%	70 - 130
Toluene-d8 (sur)	101			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361401
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:16
Sampled By:

Client: Converse Consultants
Client Sample ID: CF22ESW

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/26/02	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/26/02	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,4-Dioxane	ND	1	200	ug/Kg	06/26/02	DP
1-Chlorohexane	ND	1	5	ug/Kg	06/26/02	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/26/02	DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/26/02	DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/26/02	DP
2-Hexanone	ND	1	5	ug/Kg	06/26/02	DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/26/02	DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/26/02	DP
Acetone	ND	1	5	ug/Kg	06/26/02	DP
Acetonitrile	ND	1	5	ug/Kg	06/26/02	DP
Acrolein	ND	1	200	ug/Kg	06/26/02	DP
Acrylonitrile	ND	1	5	ug/Kg	06/26/02	DP
Allyl chloride	ND	1	5	ug/Kg	06/26/02	DP
Benzene	ND	1	5	ug/Kg	06/26/02	DP
Benzyl chloride	ND	1	5	ug/Kg	06/26/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361401
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:16
Sampled By:

Client: Converse Consultants
Client Sample ID: CF22ESW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/26/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/26/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/26/02 DP
Bromoform	ND	1	5	ug/Kg	06/26/02 DP
Bromomethane	ND	1	5	ug/Kg	06/26/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/26/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/26/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/26/02 DP
Chloroethane	ND	1	5	ug/Kg	06/26/02 DP
Chloroform	ND	1	5	ug/Kg	06/26/02 DP
Chloromethane	ND	1	5	ug/Kg	06/26/02 DP
cis-1,2-Dichloroethene	47	1	5	ug/Kg	06/26/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/26/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/26/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/26/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/26/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/26/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/26/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/26/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/26/02 DP
Iodomethane	ND	1	5	ug/Kg	06/26/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/26/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/26/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/26/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/26/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/26/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Naphthalene	ND	1	5	ug/Kg	06/26/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/26/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/26/02 DP
Propionitrile	ND	1	5	ug/Kg	06/26/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Styrene	ND	1	5	ug/Kg	06/26/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Tetrachloroethene	2,900	1	5	ug/Kg	06/26/02 DP
Toluene	ND	1	5	ug/Kg	06/26/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/26/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361401
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:16
Sampled By:

Client: Converse Consultants
Client Sample ID: CF22ESW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/26/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/26/02 DP
Trichloroethene	118	1	5	ug/Kg	06/26/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/26/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/26/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/26/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/26/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	99			%	70 - 130
Dibromofluoromethane (sur)	107			%	70 - 130
p-Bromofluorobenzene (sur)	119			%	70 - 130
Toluene-d8 (sur)	104			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361402
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:17
Sampled By:

Client: Converse Consultants
Client Sample ID: CF23EEW

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/26/02	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/26/02	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,4-Dioxane	ND	1	200	ug/Kg	06/26/02	DP
1-Chlorohexane	ND	1	5	ug/Kg	06/26/02	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/26/02	DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/26/02	DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/26/02	DP
2-Hexanone	ND	1	5	ug/Kg	06/26/02	DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/26/02	DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/26/02	DP
Acetone	ND	1	5	ug/Kg	06/26/02	DP
Acetonitrile	ND	1	5	ug/Kg	06/26/02	DP
Acrolein	ND	1	200	ug/Kg	06/26/02	DP
Acrylonitrile	ND	1	5	ug/Kg	06/26/02	DP
Allyl chloride	ND	1	5	ug/Kg	06/26/02	DP
Benzene	ND	1	5	ug/Kg	06/26/02	DP
Benzyl chloride	ND	1	5	ug/Kg	06/26/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361402 **Client:** Converse Consultants
Matrix: SOLID **Client Sample ID:** CF23EEW
Date Sampled: 06/25/2002
Time Sampled: 15:17
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/26/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/26/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/26/02 DP
Bromoform	ND	1	5	ug/Kg	06/26/02 DP
Bromomethane	ND	1	5	ug/Kg	06/26/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/26/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/26/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/26/02 DP
Chloroethane	ND	1	5	ug/Kg	06/26/02 DP
Chloroform	ND	1	5	ug/Kg	06/26/02 DP
Chloromethane	ND	1	5	ug/Kg	06/26/02 DP
cis-1,2-Dichloroethene	24	1	5	ug/Kg	06/26/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/26/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/26/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/26/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/26/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/26/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/26/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/26/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/26/02 DP
Iodomethane	ND	1	5	ug/Kg	06/26/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/26/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/26/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/26/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/26/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/26/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Naphthalene	ND	1	5	ug/Kg	06/26/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/26/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/26/02 DP
Propionitrile	ND	1	5	ug/Kg	06/26/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Styrene	ND	1	5	ug/Kg	06/26/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Tetrachloroethene	1,230	1	5	ug/Kg	06/26/02 DP
Toluene	ND	1	5	ug/Kg	06/26/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/26/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361402
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:17
Sampled By:

Client: Converse Consultants
Client Sample ID: CF23EEW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/26/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/26/02 DP
Trichloroethene	89	1	5	ug/Kg	06/26/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/26/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/26/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/26/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/26/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	96			%	70 - 130
Dibromofluoromethane (sur)	104			%	70 - 130
p-Bromofluorobenzene (sur)	123			%	70 - 130
Toluene-d8 (sur)	106			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361403
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:18
Sampled By:

Client: Converse Consultants
Client Sample ID: CF24EWW

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/26/02 DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/26/02 DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/26/02 DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/26/02 DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/26/02 DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/26/02 DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/26/02 DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/26/02 DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/26/02 DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/26/02 DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/26/02 DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/26/02 DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/26/02 DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/26/02 DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02 DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/26/02 DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/26/02 DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/26/02 DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02 DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/26/02 DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02 DP
1,4-Dioxane	ND	1	200	ug/Kg	06/26/02 DP
1-Chlorohexane	ND	1	5	ug/Kg	06/26/02 DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/26/02 DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/26/02 DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/26/02 DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/26/02 DP
2-Hexanone	ND	1	5	ug/Kg	06/26/02 DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/26/02 DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/26/02 DP
Acetone	ND	1	5	ug/Kg	06/26/02 DP
Acetonitrile	ND	1	5	ug/Kg	06/26/02 DP
Acrolein	ND	1	200	ug/Kg	06/26/02 DP
Acrylonitrile	ND	1	5	ug/Kg	06/26/02 DP
Allyl chloride	ND	1	5	ug/Kg	06/26/02 DP
Benzene	ND	1	5	ug/Kg	06/26/02 DP
Benzyl chloride	ND	1	5	ug/Kg	06/26/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361403
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:18
Sampled By:

Client: Converse Consultants
Client Sample ID: CF24EWW

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Bromobenzene	ND	1	5	ug/Kg	06/26/02	DP
Bromochloromethane	ND	1	5	ug/Kg	06/26/02	DP
Bromodichloromethane	ND	1	5	ug/Kg	06/26/02	DP
Bromoform	ND	1	5	ug/Kg	06/26/02	DP
Bromomethane	ND	1	5	ug/Kg	06/26/02	DP
Carbon Disulfide	ND	1	5	ug/Kg	06/26/02	DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/26/02	DP
Chlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
Chloroethane	ND	1	5	ug/Kg	06/26/02	DP
Chloroform	ND	1	5	ug/Kg	06/26/02	DP
Chloromethane	ND	1	5	ug/Kg	06/26/02	DP
cis-1,2-Dichloroethene	7.8	1	5	ug/Kg	06/26/02	DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/26/02	DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/26/02	DP
Dibromochloromethane	ND	1	5	ug/Kg	06/26/02	DP
Dibromomethane	ND	1	5	ug/Kg	06/26/02	DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/26/02	DP
Ethyl benzene	ND	1	5	ug/Kg	06/26/02	DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/26/02	DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/26/02	DP
Iodomethane	ND	1	5	ug/Kg	06/26/02	DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/26/02	DP
Methacrylonitrile	ND	1	5	ug/Kg	06/26/02	DP
Methyl methacrylate	ND	1	5	ug/Kg	06/26/02	DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/26/02	DP
Methylene chloride	ND	1	5	ug/Kg	06/26/02	DP
n-Butylbenzene	ND	1	5	ug/Kg	06/26/02	DP
n-Propylbenzene	ND	1	5	ug/Kg	06/26/02	DP
Naphthalene	ND	1	5	ug/Kg	06/26/02	DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/26/02	DP
Pentachloroethane	ND	1	5	ug/Kg	06/26/02	DP
Propionitrile	ND	1	5	ug/Kg	06/26/02	DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/26/02	DP
Styrene	ND	1	5	ug/Kg	06/26/02	DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/26/02	DP
Tetrachloroethene	2,650	1	5	ug/Kg	06/26/02	DP
Toluene	ND	1	5	ug/Kg	06/26/02	DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/26/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361403
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:18
Sampled By:

Client: Converse Consultants
Client Sample ID: CF24EWW

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/26/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/26/02 DP
Trichloroethene	193	1	5	ug/Kg	06/26/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/26/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/26/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/26/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/26/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	95			%	70 - 130
Dibromofluoromethane (sur)	106			%	70 - 130
p-Bromofluorobenzene (sur)	122			%	70 - 130
Toluene-d8 (sur)	103			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361404
Matrix: SOLID
Date Sampled: 06/25/2002
Time Sampled: 15:20
Sampled By:

Client: Converse Consultants
Client Sample ID: CF25EB

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/26/02	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/26/02	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,4-Dioxane	ND	1	200	ug/Kg	06/26/02	DP
1-Chlorohexane	ND	1	5	ug/Kg	06/26/02	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/26/02	DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/26/02	DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/26/02	DP
2-Hexanone	ND	1	5	ug/Kg	06/26/02	DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/26/02	DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/26/02	DP
Acetone	ND	1	5	ug/Kg	06/26/02	DP
Acetonitrile	ND	1	5	ug/Kg	06/26/02	DP
Acrolein	ND	1	200	ug/Kg	06/26/02	DP
Acrylonitrile	ND	1	5	ug/Kg	06/26/02	DP
Allyl chloride	ND	1	5	ug/Kg	06/26/02	DP
Benzene	ND	1	5	ug/Kg	06/26/02	DP
Benzyl chloride	ND	1	5	ug/Kg	06/26/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361404 **Client:** Converse Consultants
Matrix: SOLID **Client Sample ID:** CF25EB
Date Sampled: 06/25/2002
Time Sampled: 15:20
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Bromobenzene	ND	1	5	ug/Kg	06/26/02	DP
Bromochloromethane	ND	1	5	ug/Kg	06/26/02	DP
Bromodichloromethane	ND	1	5	ug/Kg	06/26/02	DP
Bromoform	ND	1	5	ug/Kg	06/26/02	DP
Bromomethane	ND	1	5	ug/Kg	06/26/02	DP
Carbon Disulfide	ND	1	5	ug/Kg	06/26/02	DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/26/02	DP
Chlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
Chloroethane	ND	1	5	ug/Kg	06/26/02	DP
Chloroform	ND	1	5	ug/Kg	06/26/02	DP
Chloromethane	ND	1	5	ug/Kg	06/26/02	DP
cis-1,2-Dichloroethene	7.1	1	5	ug/Kg	06/26/02	DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/26/02	DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/26/02	DP
Dibromochloromethane	ND	1	5	ug/Kg	06/26/02	DP
Dibromomethane	ND	1	5	ug/Kg	06/26/02	DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/26/02	DP
Ethyl benzene	ND	1	5	ug/Kg	06/26/02	DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/26/02	DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/26/02	DP
Iodomethane	ND	1	5	ug/Kg	06/26/02	DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/26/02	DP
Methacrylonitrile	ND	1	5	ug/Kg	06/26/02	DP
Methyl methacrylate	ND	1	5	ug/Kg	06/26/02	DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/26/02	DP
Methylene chloride	ND	1	5	ug/Kg	06/26/02	DP
n-Butylbenzene	ND	1	5	ug/Kg	06/26/02	DP
n-Propylbenzene	ND	1	5	ug/Kg	06/26/02	DP
Naphthalene	ND	1	5	ug/Kg	06/26/02	DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/26/02	DP
Pentachloroethane	ND	1	5	ug/Kg	06/26/02	DP
Propionitrile	ND	1	5	ug/Kg	06/26/02	DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/26/02	DP
Styrene	ND	1	5	ug/Kg	06/26/02	DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/26/02	DP
Tetrachloroethene	191	1	5	ug/Kg	06/26/02	DP
Toluene	ND	1	5	ug/Kg	06/26/02	DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/26/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361404 **Client:** Converse Consultants
Matrix: SOLID **Client Sample ID:** CF25EB
Date Sampled: 06/25/2002
Time Sampled: 15:20
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/26/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/26/02 DP
Trichloroethene	40	1	5	ug/Kg	06/26/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/26/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/26/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/26/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/26/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	101			%	70 - 130
Dibromofluoromethane (sur)	109			%	70 - 130
p-Bromofluorobenzene (sur)	124			%	70 - 130
Toluene-d8 (sur)	100			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361405
Matrix: SOLID
Date Sampled:
Time Sampled:
Sampled By:

Client: Converse Consultants
Client Sample ID: Laboratory Method Blank

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	06/26/02	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	06/26/02	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	06/26/02	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	06/26/02	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	06/26/02	DP
1,4-Dioxane	ND	1	200	ug/Kg	06/26/02	DP
1-Chlorohexane	ND	1	5	ug/Kg	06/26/02	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	06/26/02	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	06/26/02	DP
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	06/26/02	DP
2-Chlorotoluene	ND	1	5	ug/Kg	06/26/02	DP
2-Hexanone	ND	1	5	ug/Kg	06/26/02	DP
4-Chlorotoluene	ND	1	5	ug/Kg	06/26/02	DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	06/26/02	DP
Acetone	ND	1	5	ug/Kg	06/26/02	DP
Acetonitrile	ND	1	5	ug/Kg	06/26/02	DP
Acrolein	ND	1	200	ug/Kg	06/26/02	DP
Acrylonitrile	ND	1	5	ug/Kg	06/26/02	DP
Allyl chloride	ND	1	5	ug/Kg	06/26/02	DP
Benzene	ND	1	5	ug/Kg	06/26/02	DP
Benzyl chloride	ND	1	5	ug/Kg	06/26/02	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361405 **Client:** Converse Consultants

Matrix: SOLID **Client Sample ID:** Laboratory Method Blank

Date Sampled:

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Bromobenzene	ND	1	5	ug/Kg	06/26/02 DP
Bromochloromethane	ND	1	5	ug/Kg	06/26/02 DP
Bromodichloromethane	ND	1	5	ug/Kg	06/26/02 DP
Bromoform	ND	1	5	ug/Kg	06/26/02 DP
Bromomethane	ND	1	5	ug/Kg	06/26/02 DP
Carbon Disulfide	ND	1	5	ug/Kg	06/26/02 DP
Carbon tetrachloride	ND	1	5	ug/Kg	06/26/02 DP
Chlorobenzene	ND	1	5	ug/Kg	06/26/02 DP
Chloroethane	ND	1	5	ug/Kg	06/26/02 DP
Chloroform	ND	1	5	ug/Kg	06/26/02 DP
Chloromethane	ND	1	5	ug/Kg	06/26/02 DP
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	06/26/02 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	06/26/02 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/26/02 DP
Dibromochloromethane	ND	1	5	ug/Kg	06/26/02 DP
Dibromomethane	ND	1	5	ug/Kg	06/26/02 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	06/26/02 DP
Ethyl benzene	ND	1	5	ug/Kg	06/26/02 DP
Ethyl methacrylate	ND	1	5	ug/Kg	06/26/02 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	06/26/02 DP
Iodomethane	ND	1	5	ug/Kg	06/26/02 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	06/26/02 DP
Methacrylonitrile	ND	1	5	ug/Kg	06/26/02 DP
Methyl methacrylate	ND	1	5	ug/Kg	06/26/02 DP
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	06/26/02 DP
Methylene chloride	ND	1	5	ug/Kg	06/26/02 DP
n-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
n-Propylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Naphthalene	ND	1	5	ug/Kg	06/26/02 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	06/26/02 DP
Pentachloroethane	ND	1	5	ug/Kg	06/26/02 DP
Propionitrile	ND	1	5	ug/Kg	06/26/02 DP
sec-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Styrene	ND	1	5	ug/Kg	06/26/02 DP
tert-Butylbenzene	ND	1	5	ug/Kg	06/26/02 DP
Tetrachloroethene	ND	1	5	ug/Kg	06/26/02 DP
Toluene	ND	1	5	ug/Kg	06/26/02 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	06/26/02 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 361405
Matrix: SOLID
Date Sampled:
Time Sampled:
Sampled By:

Client: Converse Consultants
Client Sample ID: Laboratory Method Blank

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	06/26/02 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	06/26/02 DP
Trichloroethene	ND	1	5	ug/Kg	06/26/02 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	06/26/02 DP
Vinyl acetate	ND	1	50	ug/Kg	06/26/02 DP
Vinyl chloride	ND	1	5	ug/Kg	06/26/02 DP
Xylenes, total	ND	1	5	ug/Kg	06/26/02 DP
Surrogates				**Units**	**Control Limits**
1,2-Dichloroethane-d4 (sur)	91			%	70 - 130
Dibromofluoromethane (sur)	104			%	70 - 130
p-Bromofluorobenzene (sur)	120			%	70 - 130
Toluene-d8 (sur)	106			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Soil Samples

Analysis Date: 06/26/02

Applies to: LR 95194

Reporting Units = ug/Kg

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	45.06	48.50	90	97	7	22	59-172
MTBE	ND	50	45.40	46.04	91	92	1	24	62-137
Benzene	ND	50	45.13	47.08	90	94	4	24	62-137
Trichloroethene	ND	50	47.07	50.45	94	101	7	21	66-142
Toluene	ND	50	45.21	47.08	90	94	4	21	59-139
Chlorobenzene	ND	50	46.62	48.40	93	97	4	21	60-133

QC Sample: LCS # 1, 9:41 am
Analysis Date: 06/26/02

LCS RECOVERY / METHOD BLANK

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC Limits %REC
1,1-Dichloroethene	ND	50	45.87	92	59-172
MTBE	ND	50	43.04	86	62-137
Benzene	ND	50	46.40	93	62-137
Trichloroethene	ND	50	42.95	86	66-142
Toluene	ND	50	46.18	92	59-139
Chlorobenzene	ND	50	47.58	95	60-133

Method Blank = All ND

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Soil Samples

Analysis Date: 06/26/02

Applies to: LR 95194

Reporting Units = ug/Kg

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	55.87	53.10	112	106	5	22	59-172
MTBE	ND	50	48.31	48.68	97	97	1	24	62-137
Benzene	ND	50	55.57	52.50	111	105	6	24	62-137
Trichloroethene	ND	50	64.51	58.58	129	117	10	21	66-142
Toluene	ND	50	56.32	56.57	113	113	0	21	59-139
Chlorobenzene	ND	50	54.25	55.01	109	110	1	21	60-133

QC Sample: LCS # 1, 11:25 am
Analysis Date: 06/25/02

LCS RECOVERY / METHOD BLANK

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC Limits %REC
1,1-Dichloroethene	ND	50	53.12	106	59-172
MTBE	ND	50	51.06	102	62-137
Benzene	ND	50	51.55	103	62-137
Trichloroethene	ND	50	56.07	112	66-142
Toluene	ND	50	52.23	104	59-139
Chlorobenzene	ND	50	55.26	111	60-133

QC Sample: LCS # 2, 11:15 am
Analysis Date: 06/26/02

LCS RECOVERY / METHOD BLANK

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC Limits %REC
1,1-Dichloroethene	ND	50	51.40	103	59-172
MTBE	ND	50	51.02	102	62-137
Benzene	ND	50	56.16	112	62-137
Trichloroethene	ND	50	56.91	114	66-142
Toluene	ND	50	52.45	105	59-139
Chlorobenzene	ND	50	54.51	109	60-133

Method Blank = All ND

Cooler Receipt Form

Client: Converse Consultants Project: Crown Cleaners
Cooler Received: 6-25-02 Cooler Opened: 6-25-02 By: Albert Vargas
Signed: Albert Vargas

Was cooler scanned for presence of radioactivity, and noted if found? (Yes) / No

Were custody seals present on outside of cooler? Yes / (No)
a: If Yes, were they intact? Yes / No
b: Were signature and date correct? Yes / No

Were custody papers completely filled out? (Yes) / No

Did you sign and date the custody papers in the appropriate place? (Yes) / No

Was a shippers packing slip attached to the cooler? Yes / (No)

What kind of packing material was used? None

Was sufficient ice used? (Yes) / No Temperature: -0.1° Date: 6-25-02

Were all bottles sealed in plastic bags? Yes / (No)

Did all bottles arrive intact? (Yes) / No

Were all bottles labeled correctly? (ID, Analysis, Dates, Times) (Yes) / No

Were the correct containers included for the tests required? (Yes) / No

Were all VOA vials checked for headspace? (NA) / Yes / No

Was sufficient volume of sample sent in all containers? (Yes) / No

Were correct preservatives used? (Yes) / No

Approved by: Albert Vargas Date: 6-25-02
If not approved: Name of person contacted _____ Date: _____

Chain of Custody Record

ASSOCIATED LABORATORIES
806 North Batavia ▪ Orange, CA 92868
Phone: (714) 771-6900 ▪ Fax: (714) 538-1209

Company: Converse Consultants — Phone: (714) 444-9660
Project Manager: WILLIAM RAGSDALE — Fax: (714) 444-9640
Project Name: Donahue Schriber / CROWN — Project #: 00-42-703-02
Site Name and Address: CROWN CLEANERS, 18583 Brookhurst, Fountain Valley

A.L. Job No. 95194 — Page 1 of 2

	Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	Analysis Requested: 8260
1	CF1ANW		6/25/02	2:45	SOIL	2 ENCORE	ICE	X
2	CF2ASW			2:46				X
3	CF3AEW			2:47				X
4	CF4AWW			2:50				X
5	CF5AB			2:51				X
6	CF6BNW			2:53				X
7	CF7BSW			2:54				X
8	CF8BEW			2:55				X
9	CF9BWW			2:56				X
10	CF10BB			2:57				X
11	CF11CNW			2:59				X
12	CF12CSW			3:01				X
13	CF13CEW			3:02				X
14	CF14CWW			3:03				X
15	CF15CB			3:05				X

Test Instructions & Comments

* NEED RESULTS BY 8AM 6/26/02, WEDNESDAY.
CONTACT WILLIAM RAGSDALE AT (909) 264-5145 OR ANDY NELSON (714) 932-2154

Sample Receipt - To Be Filled By Laboratory

Total Number of Containers	25	Properly Cooled Y / N / NA	Y
Custody Seals Y / N / NA	NA	Samples Intact Y / N / NA	Y
Received in Good Condition Y / N	Y	Samples Accepted Y / N	Y

Turn Around Time

☐ Normal ☒ Rush ☒ Same Day ☐ 24 hrs. ☐ 48 hrs. ☐ 72 hrs.

-NEED RESULTS OVERNIGHT-

Relinquished by Sampler: 1.	Relinquished by 2.	Relinquished by 3.
Signature: Andy Nelson	Signature:	Signature:
Printed Name: ANDY NELSON	Printed Name:	Printed Name:
Date: 6/25/02 Time: 3:30	Date: Time:	Date: Time:
Received By: 1.	**Received By: 2.**	**Received By: 3.**
Signature: Albert Vargas	Signature:	Signature:
Printed Name: Albert Vargas	Printed Name:	Printed Name:
Date: 6-25-02 Time: 16:15	Date: Time:	Date: Time:

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager Goldenrod - Sampler/Originator

Chain of Custody Record

ASSOCIATED LABORATORIES
806 North Batavia ▪ Orange, CA 92868
Phone: (714) 771-6900 ▪ Fax: (714) 538-1209

Company: CONVERSE CONSULTANTS | Phone: (714) 444-9660
Project Manager: WILLIAM RAGSDALE | Fax: (714) 444-9640
Project Name: Donahue Schriber / Crown | Project #: 00-42-703-02
Site Name and Address: CROWN CLEANERS 18583 Brookhurst, Fountain Valley

A.L. Job No. 95194 | Page 2 of 2

	Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	Analysis Requested: 8260
1	CF16DNW		6/25/02	3:07	Soil	2 ENCORE	ICE	X
2	CF17DSW			3:09				X
3	CF18DEW			3:10				X
4	CF19DWW			3:11				X
5	CF20DB			3:12				X
6	CF21ENW			3:14				X
7	CF22ESW			3:16				X
8	CF23EEW			3:17				X
9	CF24EWW			3:18				X
10	CF25EB			3:20				X
11								
12								
13								
14								
15								

Test Instructions & Comments

* NEED RESULTS BY 8 AM 6/26/02, WEDNESDAY.
CONTACT WILLIAM RAGSDALE AT (909) 264-5145 OR ANDY NELSON (714) 932-2154

Sample Receipt - To Be Filled By Laboratory

Total Number of Containers	25	Properly Cooled Y / N / NA	Y
Custody Seals Y / N / NA	NA	Samples Intact Y / N / NA	Y
Received in Good Condition Y / N	Y	Samples Accepted Y / N	Y

Turn Around Time

☐ Normal ☒ Rush ☒ Same Day ☐ 24 hrs. ☐ 48 hrs. ☐ 72 hrs.

- NEED RESULTS OVERNIGHT -

	1.	2.	3.
Relinquished by Sampler:	Signature: Andy Nelson	Signature:	Signature:
	Printed Name: ANDY NELSON	Printed Name:	Printed Name:
	Date: 6/25/02 Time: 3:30	Date: Time:	Date: Time:
Received by:	Signature: Albert Vargas	Signature:	Signature:
	Printed Name: ALBERT VARGAS	Printed Name:	Printed Name:
	Date: 6-25-02 Time: 16:15	Date: Time:	Date: Time:

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager Goldenrod - Sampler/Originator

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Geotechnical and Environmental Engineering

CONVERSE ENVIRONMENTAL WEST

185 East Paularino Avenue
Suite B
Costa Mesa, CA 92626

714/444-9660
FAX 714/444-9640

May 18, 1998

Mr. Jack Enlow
c/o Rix Business Sales
354 Blue Cavern Point
Long Beach, California 90803

Subject: **Additional Site Investigation Report**
Crown Cleaners (existing dry cleaner facility)
18583 Brookhurst Street
Fountain Valley, California
County Case # 96IC31
Converse Project No. 96-42318-04

Dear Mr. Enlow:

Converse Environmental West (Converse) is pleased to submit this report summarizing the findings from the additional field investigation work conducted at the Crown Cleaners site within the Callens Corner Shopping Center in Fountain Valley, California. For general site location, see Figure 1. For Callens Corner Shopping Center site plan, see Figure 2.

The work was conducted during February and March 1998 and was performed in general accordance with our *Work Plan for Additional Site Investigation*, dated December 5, 1997 which was accepted by the Orange County Health Care Agency (County) in their letter dated December 23, 1997.

BACKGROUND

As presented in our *Summary Report - Site Investigation Results*, dated August 6, 1996, tetrachloroethene (PCE) and trichloroethene (TCE) were detected in the subsurface soils near the existing dry cleaner equipment and outside the rear door of the facility. The County reviewed the report, and concluded that an excess lifetime cancer risk (ELCR) exists within the above referenced facility, as presented in their letter dated September 13, 1996. Based on the unacceptable ELCR, the County requested that additional soil sampling be conducted to delineate the outer boundary of the shallow (6 inches to 3.5 feet below grade) soil contamination. The County also required that a groundwater investigation be conducted to determine whether or not groundwater has been impacted.

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At your request, Converse inquired with the County if any general assumptions were made in their determination of the ELCR. The County indicated that building dimensions were assumed and that soil samples collected from a depth of 2 feet were used to estimate the concentration of PCE which could exist at a depth of 0.5 feet. At your request, Converse conducted limited soil sampling to collect additional data so that the County could possibly re-evaluate the ELCR. Converse completed the additional shallow soil investigation and documented the specific building dimensions which were presented in the *Additional Site Investigation Report,* dated February 7, 1997. The report was submitted to the County for review.

The County reviewed the report and issued a letter dated April 8, 1997 which reiterated their position, essentially requesting that the full extent of impacted soil be documented and that a groundwater investigation be initiated.

OBJECTIVE

The objective of the work presented herein was to investigate the lateral extent of PCE and TCE in the shallow soils (0-3.5 feet) and if groundwater had been impacted.

Converse installed one groundwater well behind the dry cleaner facility to investigate if groundwater had been impacted. The well location was selected based on drill rig access to an area near the source area. Due to the building access limitations, a monitoring well could not be drilled inside the dry cleaner building, however, Converse did collected a grab sample of groundwater at Boring HA-15.

SCOPE OF SERVICES

The Converse scope of services generally consisted of the following tasks:

- Implemented a sampling and analysis program at five (5) locations within the building. Soil samples were field screened with an organic vapor analyzer (OVA). One boring was advanced to groundwater to collect a grab sample of the groundwater.

- Installed a 2-inch diameter PVC groundwater monitoring well outside of the rear door of the dry cleaner facility. Developed, purged, and sampled the groundwater monitoring well.

- Submitted soil and groundwater samples to a California state certified laboratory for chemical analyses in accordance with EPA Method 8260 for purgeable halocarbons.

FIELD INVESTIGATION WORK

On February 3, 1998, Converse performed the following services:

- Conducted soil sampling activities at five (5) locations (HA-13, HA-14, HA-15, HA-16, and HA-17) inside the building. Soil samples were collected at a depths of 0.5 and 3.5 bgs and field screened with an organic vapor analyzer. Boring HA-15 was advanced to groundwater (13 feet) to collect a grab sample of the groundwater.

- Submitted ten (10) soil samples and one (1) groundwater sample for chemical analyses in accordance with EPA Method 8260 for purgeable halocarbons.

On February 5, 1998, Converse performed the following services:

- Observed the drilling of monitoring well MW-1 located outside the rear door of the facility. Soil samples were collected at a depths of 5, 10, 15, 20 and 22 feet bgs and field screened with an organic vapor analyzer. A 2-inch diameter PVC casing was installed to a total depth of 22.5 feet bgs. The well was developed on the same day.

- Submitted one (1) soil sample, collected during the drilling of the monitoring well, for chemical analyses in accordance with EPA Method 8260 for purgeable halocarbons.

On March 20, 1998, Converse performed the following services:

- Purged the monitoring well by hand bailing approximately 35 gallons of water, and subsequently collected a groundwater sample for chemical analysis.

- Submitted one (1) groundwater sample for chemical analyses in accordance with EPA Method 8260 for purgeable halocarbons.

For hand auger boring and monitoring well locations, including previous investigation locations, see Figure 3.

For a summary of field investigation methods, including monitoring well construction details, see Appendix A.

SUMMARY OF FINDINGS

The soil and groundwater analytical results from the sampling events conducted at the site revealed the following:

At the borings located near the existing dry cleaning equipment, PCE (up to 63 ppm; HA-17) and TCE (up to 0.14 ppm; HA-2) were reported at a depth of 2 feet. The concentrations of PCE and TCE generally decrease with lateral distance from Borings HA-17 and HA-2 and with depth.

Very low concentrations of cis-1,2-dichloroethene (cis-1,2-DCE), up to 0.014 ppm, were reported at a depth of 3.5 feet (HA-14). The concentrations of cis-1,2-DCE generally decrease with depth.

Very low concentrations of 1,2-dichloroethane (1,2-DCA), up to 0.022 ppm, were reported at a depth of 0.5 and 3.5 feet (HA-14).

Elevated organic vapor analyzer (OVA) readings (greater than 20 ppm), from the head space analysis of the soil samples, were recorded from shallow soil samples collected from borings HA-14 and HA-17. For OVA readings, see Boring Logs in Appendix B.

Generally, the subsurface soils encountered consisted of interbedded low permeability sandy silt/ silty sand from below the concrete floor to a depth of approximately 5-6 feet bgs. Below 6 feet, a silty sand was encountered to approximately 9 feet bgs. Between 9 and 13 feet bgs a silt clay was encountered. Between 13 and 20 feet bgs a very moist to wet sand (fine to medium grain, with silt) was encountered. Below 20 feet, to the total depth drilled (23 feet) clay was encountered.

Groundwater was encountered during drilling at a depth of approximately 13 feet bgs at hand auger location HA-15 (within the building) and boring location MW-1 (outside the building). After installation of the well casing, the stabilized water level in well MW-1 was measured at a depth of 8.5 feet bgs. Converse interprets that since water was encountered at depths below 13 feet bgs, and the water level rose over 4 feet in the cased well, the water bearing zone appears to react as if it were a partially confined aquifer. Vertical migration of groundwater may be inhibited by the low permeability silty clay encountered between 9 and 13 feet bgs. Converse did not advance any of the other sampling locations below 4 feet bgs and no groundwater was encountered at those locations. For boring logs for the hand auger holes and the monitoring well, see Appendix B.

The chemical analysis of the groundwater sample collected from the monitoring well location MW-1 did not reveal detectable concentrations of PCE or any other purgeable halocarbons. The chemical analysis of the groundwater grab sample collected from location HA-15 revealed PCE at 0.76 ppm and TCE at 0.037 ppm.

For a summary of the soil and groundwater analytical results, see Table 1. For analytical reports for the soil and groundwater samples analyzed, see Appendix C.

CONCLUSIONS

The results of the various soil sampling and analysis programs conducted at the site indicate that a release of PCE has occurred in the area of the existing dry cleaner equipment (sample locations HA-17 and HA-2).

The released PCE has migrated laterally, immediately under the concrete floor, and to a lesser extent vertically, through the low permeability soils. The concentrations of PCE generally decrease with distance and depth from the existing dry cleaner equipment.

The presence of TCE, cis-1,2-DCE, and 1,2-DCA is most likely related to the natural biological process which causes degradation of the PCE. Each of these three compounds are degradation by-products of PCE.

PCE and TCE were not detected in the groundwater sample collected from monitoring well MW-1. PCE and TCE were detected in the groundwater sample collected from hand auger location HA-15. This conflicting groundwater analytical data from the two samples analyzed can be explained by the following.

The groundwater grab sample (HA-15) was collected after the hand auger equipment had been advanced through the PCE and TCE impacted soil (near the release area) and penetrated the water bearing layer. Therefore the grab sample results are suspect due to sample collection methodology (the groundwater was likely impacted by the residual PCE and TCE in the overlying soils).

It should be noted that recent modifications to the dry cleaner facility include the installation of a pan under the dry equipment. The pan will minimize the potential for future solvent releases to the floor and the subsurface soils.

CLOSURE

This report has been prepared for the exclusive use of Mr. Jack Enlow in accordance with the terms and conditions under which these services were provided. Any reliance on this report by third parties shall be at third party's sole risk. Our services have been performed in accordance with applicable state and local ordinances, and generally accepted practices in the geosciences. No other warranty, either expressed or implied, is made.

Converse Environmental West is not responsible or liable for any claims or damages associated with interpretation of available information provided by others. Site exploration identifies actual subsurface conditions only at those points where samples are taken, when they are taken. Data derived through sampling and analytical testing are extrapolated by geoscientists who then render an opinion about overall subsurface conditions. Actual conditions in the areas not sampled may differ from the predictions. This report should not be regarded as a guarantee that no further contamination, beyond that which was detected in our investigation, is present beneath the property. In the event that changes to the property occur, or additional, relevant information about the property is brought to our attention, the recommendations contained in this report may not be valid unless these changes and additional relevant information are reviewed and the recommendations of this report are modified in writing.

We trust that this report meets your current needs. If you have questions or comments relative to this report, please contact the undersigned at (714) 444-9660.

Sincerely,
CONVERSE ENVIRONMENTAL WEST

Henry B. Ames, R.G. 6304
Senior Geologist

hba\jrw

Dist: 1/Addressee
1/Mr. Luis Lodrigueza - Orange County Health Care Agency

Encl: Table 1 - Soil\Water Analytical Results
Figure 1 - Site Location Map
Figure 2 - Shopping Center Site Plan
Figure 3 - Investigation Locations
Appendix A - Technical Approach
Appendix B - Boring Logs
Appendix C - Analytical Report

TABLES

TABLE 1

SOIL/WATER ANALYTICAL RESULTS

CROWN CLEANERS

18583 Brookhurst Street

Fountain Valley, California

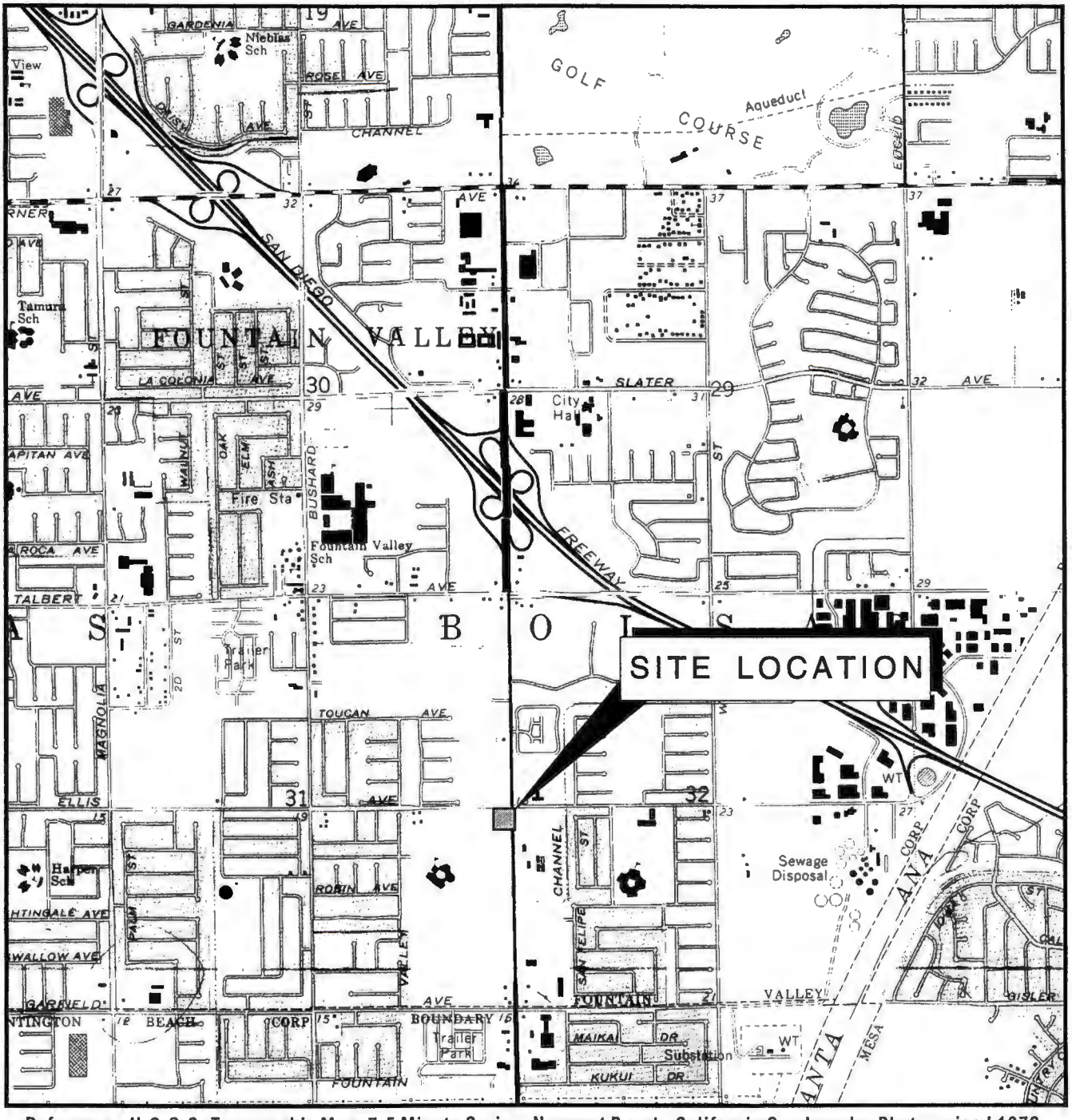
(Converse Project No. 96-42-318-04)

Boring I.D.	Soil Sample Depth (feet)	Date Sampled	Depth to Groundwater	EPA METHOD 8240 or 8260			
				PCE (ppm)	TCE (ppm)	cis-1,2-DCE (ppm)	1,2-DCA (ppm)
HA-13	0.5	2/3/98	NA	13	0.087	ND	0.015
	3.5			0.21	ND	ND	ND
HA-14	0.5	2/3/98	NA	1.1	ND	ND	0.022
	3.5			0.11	0.041	0.014	0.022
HA-15	0.5	2/3/98		47	0.099	0.0056	0.0097
	3.5			0.6	0.042	0.0084	0.0095
GROUNDWATER GRAB SAMPLE		2/3/98	13 feet bgs	0.76	0.037	ND	ND
HA-16	0.5	2/3/98	NA	5.6	0.032	ND	0.00812
	3.5			0.21	0.043	0.0069	0.0095
HA-17	1	2/3/98	NA	63	0.033	ND	0.014
	3.5			5.5	0.081	0.0055	0.0078
MW-1	10	2/5/98		0.13	0.068	ND	ND
GROUNDWATER WELL SAMPLE		3/20/98	8.40 feet below TOC	ND	ND	ND	ND
Detection Limits (ppm)				0.005	0.005	0.005	0.005

EXPLANATION

NA - Not applicable
ND - Not detected above method detection limits
TOC -Top of Casing (TOC is approximately 0.5 feet below ground surface)
bgs - below ground surface
ppm - SOIL mg/kg (parts per million) ; WATER mg/l (parts per million)
PCE - Tetrachloroethene
TCE - Trichloroethene
cis-1,2-DCE - cis-1,2-Dichloroethene
1,2-DCA - 1,2-Dichloroethane

FIGURES



Reference: U.S.G.S. Topographic Map, 7.5 Minute Series, Newport Beach, California Quadrangle, Photorevised 1972.

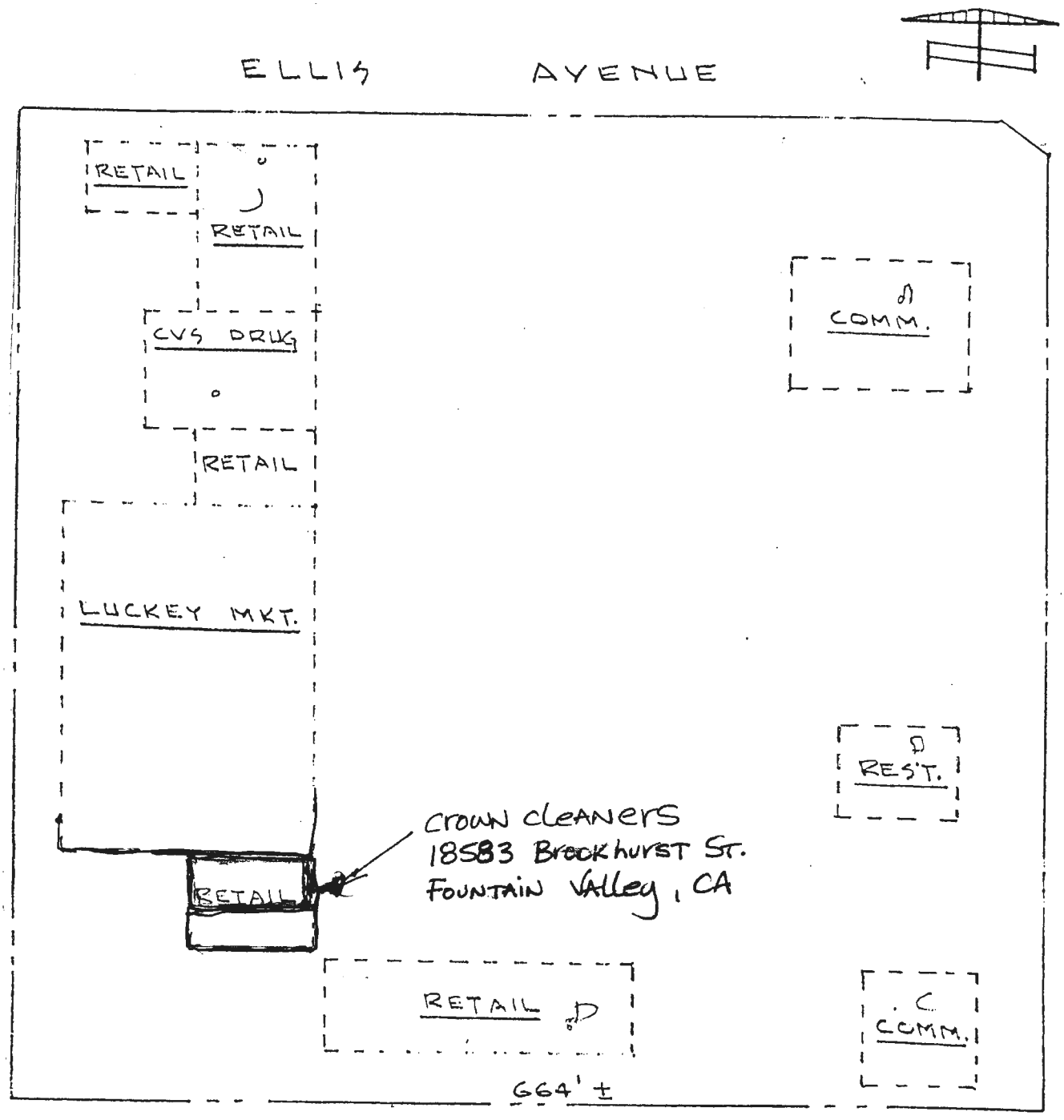
SITE LOCATION MAP

CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Project No.
96-42318-04

Figure No.
1

CONVERSE ENVIRONMENTAL WEST
Consulting Environmental Engineers and Geologists



LOCATION PLAN
SCALE: 1"=100'

SHOPPING CENTER SITE PLAN

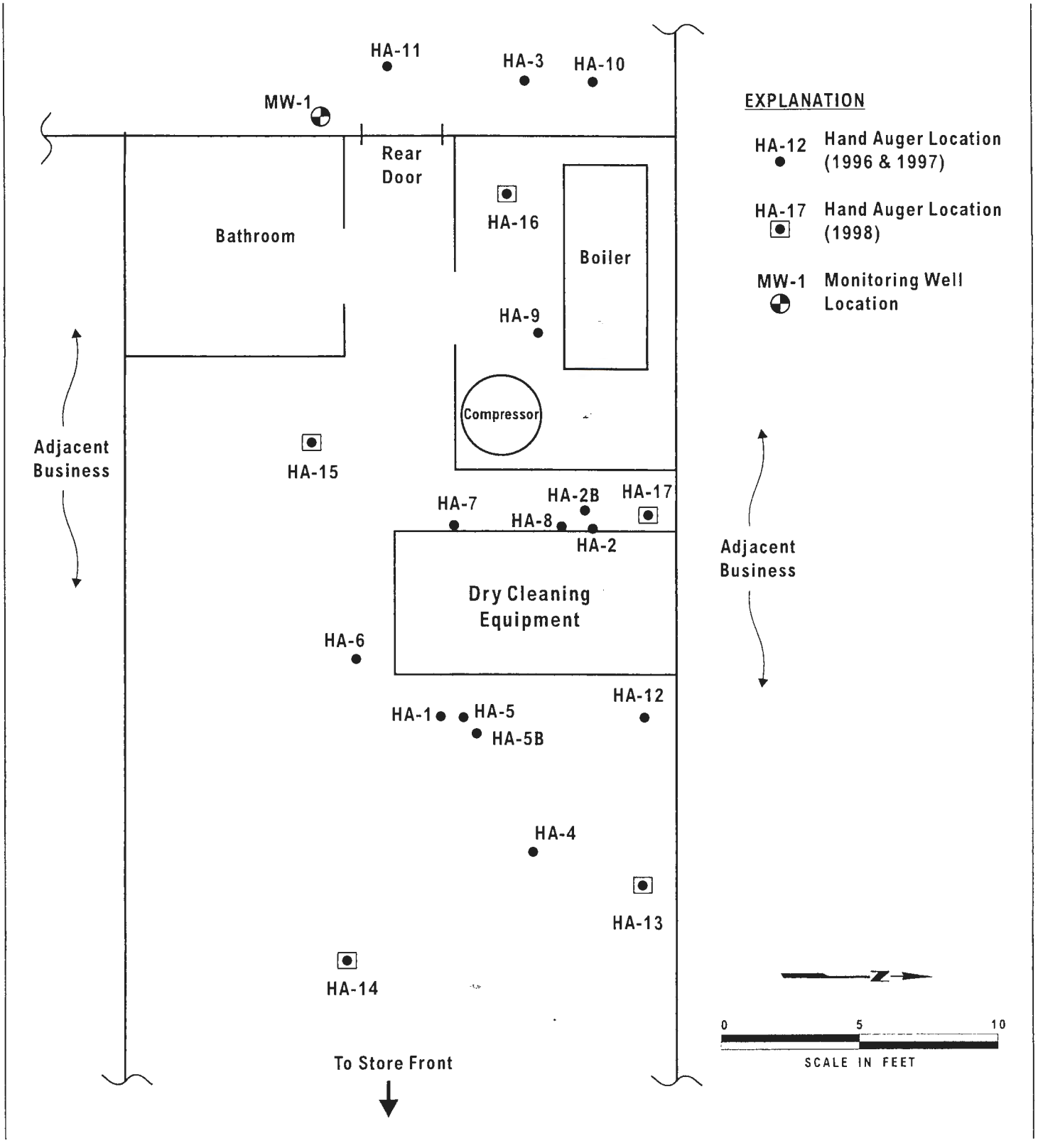
CALLENS CORNER
BROOKHURST ST & ELLIS AVE
FOUNTAIN VALLEY, CA

Project No.
96-42318-04

Figure No.
2

Converse Consultants — Geotechnical Engineering and Applied Sciences

Approved for publication by



INVESTIGATION LOCATIONS

CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Project No.
96-42318-04

Figure No.
3

CONVERSE ENVIRONMENTAL WEST
Consulting Environmental Engineers and Geologists

APPENDIX A

TECHNICAL APPROACH

Hand Auger Sampling

Soil samples were collected with a hand auger at five (5) locations. A hollow blade power-auger with a 3.25 inch diameter and a 6 inch barrel length was torqued into the soil. The hand auger was removed after every 6 inches prior to continuation of penetration.

The soil samples were scanned by removing soil from the barrel and placing it in a ziplock bag to allow collection of headspace vapors emitted from the soil. A probe from an organic vapor analyzed (OVA) was inserted into the sample bag in order to qualitatively measure total volatile organic vapors.

When the proposed sampling depth was reached, a slide hammer with a hollow sampling barrel was inserted into the boring. The sample barrel contained a 6 inch brass sleeve which was pounded into the soil. The sampler was then removed from the borehole, opened and the brass sleeve containing the soil sample removed. The brass sleeve was covered with Teflon sheeting and tightly capped. The sample was labeled with hand auger borehole location, depth, project number and date of sample and then be placed in a cooler with blue ice to maintain a temperature of 39^0 F (4^0 C) prior to chemical analysis. A Chain of Custody Record was maintained. A California State Certified Laboratory chemically analyzed the soil samples in accordance with EPA Test Method 8010.

Well Construction

Design and construction of the monitoring well was generally based on local regulatory agency requirements and was permitted by the City of Fountain Valley. The well screen interval was based on the depth to first water encountered during drilling operations and the subsurface soil types encountered. The total well depth was planned to be no more than 10 feet below first water encountered or the depth of a significant confining layer, whichever was shallower. A single wall 2.0 inch I.D. PVC well screen was located from total depth to five feet below grade. Blank PVC casing was connected with flush-threads to the top of the well screen and extended to the ground surface. The bottom of the well screen was fitted with a PVC flush-threaded cap and the top of casing will be fitted with a PVC slip cap.

The 2-inch I.D. PVC well casing was centralized within the 8-inch diameter hollow-stem auger borehole. The filter sand pack was progressively poured into the casing annular space as the auger was pulled out of the borehole. Filter pack was continuously checked for bridging using a weighted fiberglass measuring tape. The filter sand pack was brought up to a depth of 4 feet below grade. After the filter sand had been placed in the well, and before the placement of the bentonite seal, the driller surged the well to see if the filter pack settled. Additional sand was added prior to placement of the well seal. Using bentonite chips, a 3.5 foot thick bentonite seal was placed in the casing annulus across the top of the filter pack sand.

The slot size of the well screen is 0.010 inches with appropriate filter sand pack (Lonestar #2/12). This slot size was determined based on the fine-grained sand and silts encountered during prior investigation work at the site.

A well cover with keyed cover bolts was installed flush with the ground surface. Well cover installation procedures were as follows: 1) the well cover was placed around the top of casing; 2) the well cover rim was leveled; 3) concrete was poured outside the skirt and finished at the surface using a masonry trowel; and 4) concrete was sloped away from well cover rim.

Well Development

The monitoring well was developed by the drillers subsequent to completion of the well construction using a decontaminated (steam-cleaned) bailer. Water was produce from the well until the indicator parameters stabilized (except if the well is a low yielding well and dewaters). The indicator parameters include temperature, salinity, specific conductivity, pH and water clarity. Water clarity can be described using color, odor, immiscible fluid descriptions (oil sheen, frothy, free product) and turbidity descriptions (clear, cloudy, muddy, silty and sandy). The indicator parameters were measured with an approximate frequency of 1 or 2 data sets for each well volume produced from the well. Several well volumes are usually produced before the indicator parameters stabilize.

The general criterion for stabilization is when there is little or no change (+10%) in parameter values between successive time measurements. The two primary parameters typically used to determine stability are conductivity and water clarity.

A "well volume" is defined as the volume of water present inside the well casing plus the pore volume of water in the linear footage of saturated filter sand in the casing annulus. A porosity of 35% bulk volume was used to estimate the unit pore volume of each linear foot of saturated filter sand. A "casing volume" is defined as the volume of water present inside the well casing.

Groundwater Sampling and Analysis

After a minimum of three days (after installation), the monitoring well was purged in order to evacuate stagnant well water, so that a groundwater sample could be collected. The monitoring well was purged until the generally accepted 3 to 10 casing volumes of water were removed by bailing and\or stabilization of the indicator parameters. A "casing volume" is defined as the volume of water present inside the well casing at the time of this purge event.

After well purging a groundwater sample was collected from the monitoring well using a disposable bailer. The groundwater sample was placed in EPA approved glass containers and placed in a cooler with ice to maintain a temperature of 39^0 F (4^0 C) during transport to a laboratory for chemical analysis. A Chain of Custody Record was maintained. A California State Certified Laboratory chemically analyzed the sample in accordance with EPA Method 8010.

Investigative Waste Disposal

The drill cuttings encountered and well purge water generated during the investigation work was placed into three (3) 55-gallon drums for proper temporary on-site storage.

APPENDIX B

CONVERSE ENVIRONMENTAL
Costa Mesa

SHEET 1 OF 1

LOG OF: HA-13

PROJECT NAME: Crown Cleaners
PROJECT NO.: 96-42318-04
SITE GEOLOGIST(S): SSM
LOGGED BY/DATE: HBA

CONTRACTOR: Converse
DRILLER(S):
RIG/METHOD: Hand Auger
SCREEN INTERVAL:
DRLR TD(ft): WELL CONST TD(ft):

ELEVATIONS(REL. MSL)
GRADE LEVEL(ft): N/A
TOP OF CASING(ft):

LOCATION T R SEC. 1/4 SEC.
CITY: Fountain Valley CO: OR
COORDINATES(ft)

RECORD:	DATE/TIME
DRLG/CORING	2/3/98
WELL CONST	
WELL DEVELOP	
BACKFILL	

GROUNDWATER:	DEPTH(ft)	DATE/TIME
ATD	N/A	
SWL*		
SPL*		

(* PRIOR TO INITIAL DEVELOPMENT)

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud
Gvl | Scr | Smd | Sfn | Slt | Cl

PID/OVA CALIBRATION DATE: CALIBRATION UNITS:
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

LAB DATA	ENV SAMPLE	PID/OVA READING ppm	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
			0					3" Concrete
	■	3				M	ML	Sandy Silt; dark brown, fine sand, some clay
	■	3				M	SM	Silty Sand; tan, fine sand, micaceous
			5					Drillers total depth 4.0 feet Boring backfilled with excavated soil No free water encountered.
			10					
			15					
			20					
			25					

OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

CONVERSE ENVIRONMENTAL
Costa Mesa

SHEET 1 OF 1

LOG OF: HA-14

PROJECT NAME	Crown Cleaners	CONTRACTOR	Converse
PROJECT NO.	96-42318-04	DRILLER(S)	
SITE GEOLOGIST(S)	SSM	RIG/METHOD	Hand Auger
LOGGED BY/DATE	HBA	SCREEN INTERVAL	
		DRLR TD(ft)	WELL CONST TD(ft)

ELEVATIONS(REL. MSL)
GRADE LEVEL(ft) N/A
TOP OF CASING(ft)

LOCATION T R SEC. 1/4 SEC.
CITY Fountain Valley CO OR
COORDINATES(ft)

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	2/3/98	ATD	N/A	
WELL CONST		SWL*		
WELL DEVELOP		SPL*		
BACKFILL		(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: _____ CALIBRATION UNITS: ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

LAB DATA	ENV SAMPLE	PID/OVA READING (ppm)	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
			0											3" Concrete
	■	8										M	ML	Sandy Silt; Dark Brown, Fine Sand, Some clay
	■	1										M	SM	Silty Sand; tan, Fine Sand, micaceous
			5											Drillers Total Depth 4.0 feet Boring Back filled with excavated soil No Free water encountered.
			10											
			15											
			20											
			25											

CONVERSE ENVIRONMENTAL
Costa Mesa

SHEET 1 OF 1

LOG OF: HA-15

PROJECT NAME	Crown Cleaners	CONTRACTOR	Converse
PROJECT NO.	96-42318-04	DRILLER(S)	
SITE GEOLOGIST(S)	SSM	RIG/METHOD	Hand Auger
LOGGED BY/DATE	HBA	SCREEN INTERVAL	N/A
		DRLR TD(ft)	WELL CONST TD(ft)

ELEVATIONS(REL. MSL)		LOCATION T R SEC. 1/4	SEC.
GRADE LEVEL(ft)	N/A	CITY Fountain Valley	CO OR
TOP OF CASING(ft)	N/A	COORDINATES(ft)	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	2/3/98	ATD	13	2/3/98
WELL CONST		SWL*	N/A	
WELL DEVELOP		SPL*		
BACKFILL		(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: _____ CALIBRATION UNITS: _____
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

LAB DATA	ENV SAMPLE	PID/OVA READING ppm	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
														3" Concrete
	■	25	0									M	ML	Sandy Silt; Dark Grey-Brown, Fine Sand, some clay
	■	3												
			5									M	SP	Sand w/Silt; Lt. Brown
												M	CL	Clay w/Silt; Grey
			10											
										▼		WET	SM	Silty Sand; tan, Fine Sand, WET
			15											Drillers TOTAL depth 13 feet
														Boring Backfilled with excavated soil
			20											Ground water encountered at 13 feet.
														Ground water grab sample collected.
			25											

CONVERSE ENVIRONMENTAL
Costa Mesa

SHEET 1 OF 1

LOG OF: HA-16

PROJECT NAME	Crown Cleaners	CONTRACTOR	Converse
PROJECT NO.	96-42318-04	DRILLER(S)	
SITE GEOLOGIST(S)	SSM	RIG/METHOD	Hand Auger
LOGGED BY/DATE	HBA	SCREEN INTERVAL	N/A
		DRLR TD(ft)	WELL CONST TD(ft)

ELEVATIONS(REL. MSL)
GRADE LEVEL(ft)
TOP OF CASING(ft)

LOCATION T R SEC. 1/4 SEC.
CITY Fountain Valley CO OR
COORDINATES(ft)

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	2/3/98	ATD	N/A	
WELL CONST		SWL*		
WELL DEVELOP		SPL*		
BACKFILL		(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: _____ CALIBRATION UNITS: ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

LAB DATA	ENV SAMPLE	PID/OVA READING ppm	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
	■	4	0									M	ML	Silt w/ clay; Dark Brown, trace fine Sand
	■	1										M	ML	Sandy Silt; Dark Grey-Brown, fine Sand, some clay.
			5											Drillers TOTAL Depth 4.0 feet Boring Backfilled with excavated soil No Free WATER encountered.
			10											
			15											
			20											
			25											

DESCRIPTION
OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

CONVERSE ENVIRONMENTAL
Costa Mesa

SHEET 1 OF 1

LOG OF: HA-17

PROJECT NAME: Crown Cleaners
PROJECT NO.: 96-42318-04
SITE GEOLOGIST(S): SSM
LOGGED BY/DATE: HBA

CONTRACTOR: Converse
DRILLER(S):
RIG/METHOD: Hand Auger
SCREEN INTERVAL:
DRLR TD(ft): WELL CONST TD(ft):

ELEVATIONS(REL. MSL)
GRADE LEVEL(ft): N/A
TOP OF CASING(ft):

LOCATION T R SEC. 1/4 SEC.
CITY: Fountain Valley CO: OR
COORDINATES(ft):

RECORD:	DATE/TIME
DRLG/CORING	2/3/98
WELL CONST	
WELL DEVELOP	
BACKFILL	

GROUNDWATER:	DEPTH(ft)	DATE/TIME
ATD	N/A	
SWL*		
SPL*		

(* PRIOR TO INITIAL DEVELOPMENT)

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud
Gvl | Scr | Smd | Sfn | Slt | Cl

PID/OVA CALIBRATION DATE: _____ CALIBRATION UNITS: _____
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

LAB DATA	ENV SAMPLE	PID/OVA READING ppm	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
			0			M	ML	Sandy SILT; DARK BROWN, Fine Sand, Some clay
	30					M	ML	Sandy SILT; DARK BROWN, Fine Sand.
	5							
			5					Drillers TOTAL depth 4.0 feet Boring Backfilled with EXCAVATED Soil No Free WATER ENCOUNTERED.
			10					
			15					
			20					
			25					

CONVERSE ENVIRONMENTAL
Costa Mesa

SHEET 1 OF 1

LOG OF: MW-1

PROJECT NAME: Crown Cleaners
PROJECT NO.: 96-42318-04
SITE GEOLOGIST(S): HBA
LOGGED BY/DATE: HBA

CONTRACTOR: Cascade Drilling
DRILLER(S):
RIG/METHOD: Hollow Stem Auger
SCREEN INTERVAL: 5-22.5
DRLR TD(ft) 23 WELL CONST TD(ft) 22.5

ELEVATIONS(REL. MSL)
GRADE LEVEL(ft): N/A
TOP OF CASING(ft):

LOCATION T R SEC. 1/4 SEC.
CITY: Fountain Valley CO OR
COORDINATES(ft):

RECORD:	DATE/TIME
DRLG/CORING	2/5/98 0800
WELL CONST	2/5/98 1000
WELL DEVELOP	2/5/98 1100
BACKFILL	

GROUNDWATER:	DEPTH(ft)	DATE/TIME
ATD	13	2/5/98
SWL*	8.4	3/20/98
SPL*	NONE	

(* PRIOR TO INITIAL DEVELOPMENT)

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud
Gvl | Scr | Smd | Sfn | Slt | Cl

PID/OVA CALIBRATION DATE: CALIBRATION UNITS:
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

LAB DATA	ENV SAMPLE	PID/OVA READING ppm	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
			0		Blank Casing	SM	ML	Clayey Silt; Some Sand, Brown
						SM	ML	Silt; Black, organic
		0	5		Screened Interval	SM	Sp	Silty Sand; Lt. Brown, Fine to Medium Grain
		0	10		0.010 Screened Interval	M	CL	Clay w/ Silt; Grey
						W	Sp	Silty Sand; Grey, Fine to Medium Grain Wet
		0	15					
		0	20					
		0				M	CL	Clay; Dark Grey, Soft
			25					2" ø pvc monitoring well installed

APPENDIX C

NEL LABORATORIES
Reno • Las Vegas
Phoenix • Irvine

Southern California Division
3189 Airway Ave., Bldg. C • Costa Mesa, CA 92626
(714) 437-5200 • Fax: (714) 556-5625
1-800-320-6595

CLIENT: Converse Environmental
185 East Paularino Avenue
Costa Mesa, CA 92626
ATTN: Henry Ames

PROJECT NAME: Crown Cleaners
PROJECT #: 97-42-318-04

NEL ORDER ID: B9802005

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 2/5/98.

Samples were analyzed as received.

Where applicable we have included the following quality control data:

Method blank - used to demonstrate absence of contamination or interferences in the analytical process.
Laboratory Control Spike (LCS) - used to demonstrate laboratory ability to perform the method within specifications by spiking representative analytes into a clean matrix.
Surrogates - compounds added to each sample to ensure that the method requirements are met for each individual sample.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Di - Results reported from analysis at a higher dilution.
E - Concentration exceeded calibration range. It should be considered an estimated value.

Rick Schyneeckers
Laboratory Manager

2/10/98
Date

CERTIFICATIONS:

	Reno	Las Vegas	Burbank
Arizona	AZ0520	AZ0518	AZ0325
California	1707	2002	1192
US Army Corps of Engineers	Certified	Certified	Certified

	Reno	Las Vegas	Burbank
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
Washington			Certified

NEL LABORATORIES

CLIENT:	Converse Environmental	CLIENT ID:	HA-13 / .5'
PROJECT ID:	Crown Cleaners	DATE SAMPLED:	2/3/98
PROJECT #:	97-42-318-04	NEL SAMPLE ID:	B9802005-01

TEST: **Volatile Organic Compounds by EPA 8260A, September 1994**

METHOD:	EPA 8260A	EXTRACTED:	2/11/98
MATRIX:	Soil	ANALYZED:	2/11/98
DILUTION:	1	ANALYST:	SCN

PARAMETER	Result µg/Kg	Reporting Limit	PARAMETER	Result µg/Kg	Reporting Limit
Acetone	ND	50. µg/Kg	2,2-Dichloropropane	ND	5. µg/Kg
Benzene	ND	5. µg/Kg	1,1-Dichloropropene	ND	5. µg/Kg
Bromobenzene	ND	5. µg/Kg	cis-1,3-Dichloropropene	ND	5. µg/Kg
Bromochloromethane	ND	5. µg/Kg	trans-1,3-Dichloropropene	ND	5. µg/Kg
Bromodichloromethane	ND	5. µg/Kg	Ethylbenzene	ND	5. µg/Kg
Bromoform	ND	5. µg/Kg	Hexachlorobutadiene	ND	5. µg/Kg
Bromomethane	ND	5. µg/Kg	2-Hexanone	ND	50. µg/Kg
2-Butanone	ND	50. µg/Kg	Iodomethane	ND	5. µg/Kg
n-Butylbenzene	ND	5. µg/Kg	Isopropylbenzene	ND	5. µg/Kg
sec-Butylbenzene	ND	5. µg/Kg	p-Isopropyltoluene	ND	5. µg/Kg
tert-Butylbenzene	ND	5. µg/Kg	Methylene chloride (Dichloromethane)	ND	10. µg/Kg
Carbon disulfide	ND	5. µg/Kg	4-Methyl-2-pentanone	ND	50. µg/Kg
Carbon tetrachloride	ND	5. µg/Kg	MTBE	ND	10. µg/Kg
Chlorobenzene	ND	5. µg/Kg	Naphthalene	ND	5. µg/Kg
Chloroethane	ND	5. µg/Kg	n-Propylbenzene	ND	5. µg/Kg
2-Chloroethyl vinyl ether	ND	10. µg/Kg	Styrene	ND	5. µg/Kg
Chloroform	ND	5. µg/Kg	1,1,1,2-Tetrachloroethane	ND	5. µg/Kg
Chloromethane	ND	5. µg/Kg	1,1,2,2-Tetrachloroethane	ND	5. µg/Kg
2-Chlorotoluene	ND	5. µg/Kg	Tetrachloroethene (PCE)	13,000 Di	500. µg/Kg
4-Chlorotoluene	ND	5. µg/Kg	Toluene	ND	5. µg/Kg
Dibromochloromethane	ND	5. µg/Kg	1,2,3-Trichlorobenzene	ND	5. µg/Kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	5. µg/Kg	1,2,4-Trichlorobenzene	ND	5. µg/Kg
1,2-Dibromoethane (EDB)	ND	5. µg/Kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND	5. µg/Kg
Dibromomethane	ND	5. µg/Kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND	5. µg/Kg
1,2-Dichlorobenzene (o-DCB)	ND	5. µg/Kg	Trichloroethene (TCE)	87	5. µg/Kg
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/Kg	Trichlorofluoromethane (Freon 11)	ND	5. µg/Kg
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/Kg	1,2,3-Trichloropropane	ND	5. µg/Kg
Dichlorodifluoromethane (Freon 12)	ND	5. µg/Kg	1,2,4-Trimethylbenzene	ND	5. µg/Kg
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/Kg	1,3,5-Trimethylbenzene	ND	5. µg/Kg
1,2-Dichloroethane (1,2-DCA)	15	5. µg/Kg	Vinyl chloride	ND	5. µg/Kg
1,1-Dichloroethene (1,1-DCE)	ND	5. µg/Kg	o-Xylene	ND	5. µg/Kg
cis-1,2-Dichloroethene	ND	5. µg/Kg	m,p-Xylene	ND	10. µg/Kg
trans-1,2-Dichloroethene	ND	5. µg/Kg			
1,2-Dichloropropane	ND	5. µg/Kg			
1,3-Dichloropropane	ND	5. µg/Kg			

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	87	74 - 121
Dibromofluoromethane	115	80 - 120
Toluene-d8	96	81 - 117

ND - Not Detected

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NEL LABORATORIES

IENT:	Converse Environmental	CLIENT ID:	HA-13 / 3.5'
OJECT ID:	Crown Cleaners	DATE SAMPLED:	2/3/98
PROJECT #:	97-42-318-04	NEL SAMPLE ID:	B9802005-02
ST:	**Volatile Organic Compounds by EPA 8260A, September 1994**		
THOD:	EPA 8260A	EXTRACTED:	2/12/98
MATRIX:	Soil	ANALYZED:	2/12/98
LUTION:	1	ANALYST:	SCN

PARAMETER	Result µg/Kg	Reporting Limit	PARAMETER	Result µg/Kg		Reporting Limit
etone	ND	50. µg/Kg	2,2-Dichloropropane	ND		5. µg/Kg
nzene	ND	5. µg/Kg	1,1-Dichloropropene	ND		5. µg/Kg
Bromobenzene	ND	5. µg/Kg	cis-1,3-Dichloropropene	ND		5. µg/Kg
mochloromethane	ND	5. µg/Kg	trans-1,3-Dichloropropene	ND		5. µg/Kg
modichloromethane	ND	5. µg/Kg	Ethylbenzene	ND		5. µg/Kg
Bromoform	ND	5. µg/Kg	Hexachlorobutadiene	ND		5. µg/Kg
momethane	ND	5. µg/Kg	2-Hexanone	ND		50. µg/Kg
utanone	ND	50. µg/Kg	Iodomethane	ND		5. µg/Kg
n-Butylbenzene	ND	5. µg/Kg	Isopropylbenzene	ND		5. µg/Kg
sec-Butylbenzene	ND	5. µg/Kg	p-Isopropyltoluene	ND		5. µg/Kg
-Butylbenzene	ND	5. µg/Kg	Methylene chloride (Dichloromethane)	ND		10. µg/Kg
bon disulfide	ND	5. µg/Kg	4-Methyl-2-pentanone	ND		50. µg/Kg
Carbon tetrachloride	ND	5. µg/Kg	MTBE	ND		10. µg/Kg
orobenzene	ND	5. µg/Kg	Naphthalene	ND		5. µg/Kg
oroethane	ND	5. µg/Kg	n-Propylbenzene	ND		5. µg/Kg
2-Chloroethyl vinyl ether	ND	10. µg/Kg	Styrene	ND		5. µg/Kg
Chloroform	ND	5. µg/Kg	1,1,1,2-Tetrachloroethane	ND		5. µg/Kg
oromethane	ND	5. µg/Kg	1,1,2,2-Tetrachloroethane	ND		5. µg/Kg
hlorotoluene	ND	5. µg/Kg	Tetrachloroethene (PCE)	210	Di	25. µg/Kg
4-Chlorotoluene	ND	5. µg/Kg	Toluene	ND		5. µg/Kg
romochloromethane	ND	5. µg/Kg	1,2,3-Trichlorobenzene	ND		5. µg/Kg
Dibromo-3-chloropropane (DBCP)	ND	5. µg/Kg	1,2,4-Trichlorobenzene	ND		5. µg/Kg
1,2-Dibromoethane (EDB)	ND	5. µg/Kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND		5. µg/Kg
romomethane	ND	5. µg/Kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND		5. µg/Kg
Dichlorobenzene (o-DCB)	ND	5. µg/Kg	Trichloroethene (TCE)	ND		5. µg/Kg
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/Kg	Trichlorofluoromethane (Freon 11)	ND		5. µg/Kg
1 4-Dichlorobenzene (p-DCB)	ND	5. µg/Kg	1,2,3-Trichloropropane	ND		5. µg/Kg
hlorodifluoromethane (Freon 12)	ND	5. µg/Kg	1,2,4-Trimethylbenzene	ND		5. µg/Kg
Dichloroethane (1,1-DCA)	ND	5. µg/Kg	1,3,5-Trimethylbenzene	ND		5. µg/Kg
1,2-Dichloroethane (1,2-DCA)	ND	5. µg/Kg	Vinyl chloride	ND		5. µg/Kg
Dichloroethene (1,1-DCE)	ND	5. µg/Kg	o-Xylene	ND		5. µg/Kg
1,2-Dichloroethene	ND	5. µg/Kg	m,p-Xylene	ND		10. µg/Kg
trans-1,2-Dichloroethene	ND	5. µg/Kg				
Dichloropropane	ND	5. µg/Kg				
Dichloropropane	ND	5. µg/Kg				

QUALITY CONTROL DATA:

rogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	81	74 - 121
Dibromofluoromethane	118	80 - 120
uene-d8	93	81 - 117

ND - Not Detected

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NEL LABORATORIES

CLIENT:	Converse Environmental	CLIENT ID:	HA-14 / .5'
PROJECT ID:	Crown Cleaners	DATE SAMPLED:	2/3/98
PROJECT #:	97-42-318-04	NEL SAMPLE ID:	B9802005-03

TEST:	**Volatile Organic Compounds by EPA 8260A, September 1994**		
METHOD:	EPA 8260A	EXTRACTED:	2/11/98
MATRIX:	Soil	ANALYZED:	2/11/98
DILUTION:	1	ANALYST:	SCN

PARAMETER	Result µg/Kg	Reporting Limit	PARAMETER	Result µg/Kg		Reporting Limit
Acetone	ND	50. µg/Kg	2,2-Dichloropropane	ND		5. µg/Kg
Benzene	ND	5. µg/Kg	1,1-Dichloropropene	ND		5. µg/Kg
Bromobenzene	ND	5. µg/Kg	cis-1,3-Dichloropropene	ND		5. µg/Kg
Bromochloromethane	ND	5. µg/Kg	trans-1,3-Dichloropropene	ND		5. µg/Kg
Bromodichloromethane	ND	5. µg/Kg	Ethylbenzene	ND		5. µg/Kg
Bromoform	ND	5. µg/Kg	Hexachlorobutadiene	ND		5. µg/Kg
Bromomethane	ND	5. µg/Kg	2-Hexanone	ND		50. µg/Kg
2-Butanone	ND	50. µg/Kg	Iodomethane	ND		5. µg/Kg
n-Butylbenzene	ND	5. µg/Kg	Isopropylbenzene	ND		5. µg/Kg
sec-Butylbenzene	ND	5. µg/Kg	p-Isopropyltoluene	ND		5. µg/Kg
tert-Butylbenzene	ND	5. µg/Kg	Methylene chloride (Dichloromethane)	ND		10. µg/Kg
Carbon disulfide	ND	5. µg/Kg	4-Methyl-2-pentanone	ND		50. µg/Kg
Carbon tetrachloride	ND	5. µg/Kg	MTBE	ND		10. µg/Kg
Chlorobenzene	ND	5. µg/Kg	Naphthalene	ND		5. µg/Kg
Chloroethane	ND	5. µg/Kg	n-Propylbenzene	ND		5. µg/Kg
2-Chloroethyl vinyl ether	ND	10. µg/Kg	Styrene	ND		5. µg/Kg
Chloroform	ND	5. µg/Kg	1,1,1,2-Tetrachloroethane	ND		5. µg/Kg
Chloromethane	ND	5. µg/Kg	1,1,2,2-Tetrachloroethane	ND		5. µg/Kg
2-Chlorotoluene	ND	5. µg/Kg	Tetrachloroethene (PCE)	1,100	Di	25. µg/Kg
4-Chlorotoluene	ND	5. µg/Kg	Toluene	ND		5. µg/Kg
Dibromochloromethane	ND	5. µg/Kg	1,2,3-Trichlorobenzene	ND		5. µg/Kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	5. µg/Kg	1,2,4-Trichlorobenzene	ND		5. µg/Kg
1,2-Dibromoethane (EDB)	ND	5. µg/Kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND		5. µg/Kg
Dibromomethane	ND	5. µg/Kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND		5. µg/Kg
1,2-Dichlorobenzene (o-DCB)	ND	5. µg/Kg	Trichloroethene (TCE)	ND		5. µg/Kg
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/Kg	Trichlorofluoromethane (Freon 11)	ND		5. µg/Kg
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/Kg	1,2,3-Trichloropropane	ND		5. µg/Kg
Dichlorodifluoromethane (Freon 12)	ND	5. µg/Kg	1,2,4-Trimethylbenzene	ND		5. µg/Kg
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/Kg	1,3,5-Trimethylbenzene	ND		5. µg/Kg
1,2-Dichloroethane (1,2-DCA)	22	5. µg/Kg	Vinyl chloride	ND		5. µg/Kg
1,1-Dichloroethene (1,1-DCE)	ND	5. µg/Kg	o-Xylene	ND		5. µg/Kg
cis-1,2-Dichloroethene	ND	5. µg/Kg	m,p-Xylene	ND		10. µg/Kg
trans-1,2-Dichloroethene	ND	5. µg/Kg				
1,2-Dichloropropane	ND	5. µg/Kg				
1,3-Dichloropropane	ND	5. µg/Kg				

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	85	74 - 121
Dibromofluoromethane	115	80 - 120
Toluene-d8	91	81 - 117

ND - Not Detected

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NEL LABORATORIES

CLIENT:	Converse Environmental	CLIENT ID:	HA-14 / 3.5'
PROJECT ID:	Crown Cleaners	DATE SAMPLED:	2/3/98
PROJECT #:	97-42-318-04	NEL SAMPLE ID:	B9802005-04

TEST:	**Volatile Organic Compounds by EPA 8260A, September 1994**		
METHOD:	EPA 8260A	EXTRACTED:	2/11/98
MATRIX:	Soil	ANALYZED:	2/11/98
DILUTION:	1	ANALYST:	SCN

PARAMETER	Result µg/Kg	Reporting Limit	PARAMETER	Result µg/Kg	Reporting Limit
Acetone	ND	50. µg/Kg	2,2-Dichloropropane	ND	5. µg/Kg
Benzene	ND	5. µg/Kg	1,1-Dichloropropene	ND	5. µg/Kg
Bromobenzene	ND	5. µg/Kg	cis-1,3-Dichloropropene	ND	5. µg/Kg
Bromochloromethane	ND	5. µg/Kg	trans-1,3-Dichloropropene	ND	5. µg/Kg
Bromodichloromethane	ND	5. µg/Kg	Ethylbenzene	ND	5. µg/Kg
Bromoform	ND	5. µg/Kg	Hexachlorobutadiene	ND	5. µg/Kg
Bromomethane	ND	5. µg/Kg	2-Hexanone	ND	50. µg/Kg
2-Butanone	ND	50. µg/Kg	Iodomethane	ND	5. µg/Kg
n-Butylbenzene	ND	5. µg/Kg	Isopropylbenzene	ND	5. µg/Kg
sec-Butylbenzene	ND	5. µg/Kg	p-Isopropyltoluene	ND	5. µg/Kg
tert-Butylbenzene	ND	5. µg/Kg	Methylene chloride (Dichloromethane)	ND	10. µg/Kg
Carbon disulfide	ND	5. µg/Kg	4-Methyl-2-pentanone	ND	50. µg/Kg
Carbon tetrachloride	ND	5. µg/Kg	MTBE	ND	10. µg/Kg
Chlorobenzene	ND	5. µg/Kg	Naphthalene	ND	5. µg/Kg
Chloroethane	ND	5. µg/Kg	n-Propylbenzene	ND	5. µg/Kg
2-Chloroethyl vinyl ether	ND	10. µg/Kg	Styrene	ND	5. µg/Kg
Chloroform	ND	5. µg/Kg	1,1,1,2-Tetrachloroethane	ND	5. µg/Kg
Chloromethane	ND	5. µg/Kg	1,1,2,2-Tetrachloroethane	ND	5. µg/Kg
2-Chlorotoluene	ND	5. µg/Kg	Tetrachloroethene (PCE)	110	5. µg/Kg
4-Chlorotoluene	ND	5. µg/Kg	Toluene	ND	5. µg/Kg
Dibromochloromethane	ND	5. µg/Kg	1,2,3-Trichlorobenzene	ND	5. µg/Kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	5. µg/Kg	1,2,4-Trichlorobenzene	ND	5. µg/Kg
1,2-Dibromoethane (EDB)	ND	5. µg/Kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND	5. µg/Kg
Dibromomethane	ND	5. µg/Kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND	5. µg/Kg
1,2-Dichlorobenzene (o-DCB)	ND	5. µg/Kg	Trichloroethene (TCE)	41	5. µg/Kg
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/Kg	Trichlorofluoromethane (Freon 11)	ND	5. µg/Kg
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/Kg	1,2,3-Trichloropropane	ND	5. µg/Kg
Dichlorodifluoromethane (Freon 12)	ND	5. µg/Kg	1,2,4-Trimethylbenzene	ND	5. µg/Kg
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/Kg	1,3,5-Trimethylbenzene	ND	5. µg/Kg
1,2-Dichloroethane (1,2-DCA)	22	5. µg/Kg	Vinyl chloride	ND	5. µg/Kg
1,1-Dichloroethene (1,1-DCE)	ND	5. µg/Kg	o-Xylene	ND	5. µg/Kg
cis-1,2-Dichloroethene	14	5. µg/Kg	m,p-Xylene	ND	10. µg/Kg
trans-1,2-Dichloroethene	ND	5. µg/Kg			
1,2-Dichloropropane	ND	5. µg/Kg			
1,3-Dichloropropane	ND	5. µg/Kg			

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	87	74 - 121
Dibromofluoromethane	120	80 - 120
Toluene-d8	85	81 - 117

ND - Not Detected

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NEL LABORATORIES

CLIENT:	Converse Environmental	CLIENT ID:	HA-15 / .5'
PROJECT ID:	Crown Cleaners	DATE SAMPLED:	2/3/98
PROJECT #:	97-42-318-04	NEL SAMPLE ID:	B9802005-05

TEST: **Volatile Organic Compounds by EPA 8260A, September 1994**

METHOD:	EPA 8260A	EXTRACTED:	2/11/98
MATRIX:	Soil	ANALYZED:	2/11/98
DILUTION:	1	ANALYST:	SCN

PARAMETER	Result µg/Kg	Reporting Limit	PARAMETER	Result µg/Kg	Reporting Limit
Acetone	ND	50. µg/Kg	2,2-Dichloropropane	ND	5. µg/Kg
Benzene	ND	5. µg/Kg	1,1-Dichloropropene	ND	5. µg/Kg
Bromobenzene	ND	5. µg/Kg	cis-1,3-Dichloropropene	ND	5. µg/Kg
Bromochloromethane	ND	5. µg/Kg	trans-1,3-Dichloropropene	ND	5. µg/Kg
Bromodichloromethane	ND	5. µg/Kg	Ethylbenzene	ND	5. µg/Kg
Bromoform	ND	5. µg/Kg	Hexachlorobutadiene	ND	5. µg/Kg
Bromomethane	ND	5. µg/Kg	2-Hexanone	ND	50. µg/Kg
2-Butanone	ND	50. µg/Kg	Iodomethane	ND	5. µg/Kg
n-Butylbenzene	ND	5. µg/Kg	Isopropylbenzene	ND	5. µg/Kg
sec-Butylbenzene	ND	5. µg/Kg	p-Isopropyltoluene	ND	5. µg/Kg
tert-Butylbenzene	ND	5. µg/Kg	Methylene chloride (Dichloromethane)	ND	10. µg/Kg
Carbon disulfide	ND	5. µg/Kg	4-Methyl-2-pentanone	ND	50. µg/Kg
Carbon tetrachloride	ND	5. µg/Kg	MTBE	ND	10. µg/Kg
Chlorobenzene	ND	5. µg/Kg	Naphthalene	ND	5. µg/Kg
Chloroethane	ND	5. µg/Kg	n-Propylbenzene	ND	5. µg/Kg
2-Chloroethyl vinyl ether	ND	10. µg/Kg	Styrene	ND	5. µg/Kg
Chloroform	ND	5. µg/Kg	1,1,1,2-Tetrachloroethane	ND	5. µg/Kg
Chloromethane	ND	5. µg/Kg	1,1,2,2-Tetrachloroethane	ND	5. µg/Kg
2-Chlorotoluene	ND	5. µg/Kg	Tetrachloroethene (PCE)	47,000 Di	1000. µg/Kg
4-Chlorotoluene	ND	5. µg/Kg	Toluene	ND	5. µg/Kg
Dibromochloromethane	ND	5. µg/Kg	1,2,3-Trichlorobenzene	ND	5. µg/Kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	5. µg/Kg	1,2,4-Trichlorobenzene	ND	5. µg/Kg
1,2-Dibromoethane (EDB)	ND	5. µg/Kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND	5. µg/Kg
Dibromomethane	ND	5. µg/Kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND	5. µg/Kg
1,2-Dichlorobenzene (o-DCB)	ND	5. µg/Kg	Trichloroethene (TCE)	99	5. µg/Kg
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/Kg	Trichlorofluoromethane (Freon 11)	ND	5. µg/Kg
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/Kg	1,2,3-Trichloropropane	ND	5. µg/Kg
Dichlorodifluoromethane (Freon 12)	ND	5. µg/Kg	1,2,4-Trimethylbenzene	ND	5. µg/Kg
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/Kg	1,3,5-Trimethylbenzene	ND	5. µg/Kg
1,2-Dichloroethane (1,2-DCA)	9.7	5. µg/Kg	Vinyl chloride	ND	5. µg/Kg
1,1-Dichloroethene (1,1-DCE)	ND	5. µg/Kg	o-Xylene	ND	5. µg/Kg
cis-1,2-Dichloroethene	5.6	5. µg/Kg	m,p-Xylene	ND	10. µg/Kg
trans-1,2-Dichloroethene	ND	5. µg/Kg			
1,2-Dichloropropane	ND	5. µg/Kg			
1,3-Dichloropropane	ND	5. µg/Kg			

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	85	74 - 121
Dibromofluoromethane	120	80 - 120
Toluene-d8	103	81 - 117

ND - Not Detected

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NEL LABORATORIES

LIENT:	Converse Environmental	CLIENT ID:	HA-15 / 3.5'
ROJECT ID:	Crown Cleaners	DATE SAMPLED:	2/3/98
PROJECT #:	97-42-318-04	NEL SAMPLE ID:	B9802005-06
EST:	**Volatile Organic Compounds by EPA 8260A, September 1994**		
..ETHOD:	EPA 8260A	EXTRACTED:	2/11/98
MATRIX:	Soil	ANALYZED:	2/11/98
ILUTION:	1	ANALYST:	SCN

PARAMETER	Result µg/Kg	Reporting Limit	PARAMETER	Result µg/Kg		Reporting Limit
:etone	ND	50. µg/Kg	2,2-Dichloropropane	ND		5. µg/Kg
_ :nzene	ND	5. µg/Kg	1,1-Dichloropropene	ND		5. µg/Kg
Bromobenzene	ND	5. µg/Kg	cis-1,3-Dichloropropene	ND		5. µg/Kg
omochloromethane	ND	5. µg/Kg	trans-1,3-Dichloropropene	ND		5. µg/Kg
omodichloromethane	ND	5. µg/Kg	Ethylbenzene	ND		5. µg/Kg
Bromoform	ND	5. µg/Kg	Hexachlorobutadiene	ND		5. µg/Kg
P-omomethane	ND	5. µg/Kg	2-Hexanone	ND		50. µg/Kg
Butanone	ND	50. µg/Kg	Iodomethane	ND		5. µg/Kg
n-Butylbenzene	ND	5. µg/Kg	Isopropylbenzene	ND		5. µg/Kg
sec-Butylbenzene	ND	5. µg/Kg	p-Isopropyltoluene	ND		5. µg/Kg
t-Butylbenzene	ND	5. µg/Kg	Methylene chloride (Dichloromethane)	ND		10. µg/Kg
rbon disulfide	ND	5. µg/Kg	4-Methyl-2-pentanone	ND		50. µg/Kg
Carbon tetrachloride	ND	5. µg/Kg	MTBE	ND		10. µg/Kg
lorobenzene	ND	5. µg/Kg	Naphthalene	ND		5. µg/Kg
loroethane	ND	5. µg/Kg	n-Propylbenzene	ND		5. µg/Kg
2-Chloroethyl vinyl ether	ND	10. µg/Kg	Styrene	ND		5. µg/Kg
Chloroform	ND	5. µg/Kg	1,1,1,2-Tetrachloroethane	ND		5. µg/Kg
loromethane	ND	5. µg/Kg	1,1,2,2-Tetrachloroethane	ND		5. µg/Kg
2-Chlorotoluene	ND	5. µg/Kg	Tetrachloroethene (PCE)	600	Di	25. µg/Kg
4-Chlorotoluene	ND	5. µg/Kg	Toluene	ND		5. µg/Kg
bromochloromethane	ND	5. µg/Kg	1,2,3-Trichlorobenzene	ND		5. µg/Kg
:-Dibromo-3-chloropropane (DBCP)	ND	5. µg/Kg	1,2,4-Trichlorobenzene	ND		5. µg/Kg
1,2-Dibromoethane (EDB)	ND	5. µg/Kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND		5. µg/Kg
ıromomethane	ND	5. µg/Kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND		5. µg/Kg
-Dichlorobenzene (o-DCB)	ND	5. µg/Kg	Trichloroethene (TCE)	42		5. µg/Kg
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/Kg	Trichlorofluoromethane (Freon 11)	ND		5. µg/Kg
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/Kg	1,2,3-Trichloropropane	ND		5. µg/Kg
:hlorodifluoromethane (Freon 12)	ND	5. µg/Kg	1,2,4-Trimethylbenzene	ND		5. µg/Kg
.,.-Dichloroethane (1,1-DCA)	ND	5. µg/Kg	1,3,5-Trimethylbenzene	ND		5. µg/Kg
1,2-Dichloroethane (1,2-DCA)	9.5	5. µg/Kg	Vinyl chloride	ND		5. µg/Kg
-Dichloroethene (1,1-DCE)	ND	5. µg/Kg	o-Xylene	ND		5. µg/Kg
-1,2-Dichloroethene	8.4	5. µg/Kg	m,p-Xylene	ND		10. µg/Kg
trans-1,2-Dichloroethene	ND	5. µg/Kg				
' ?-Dichloropropane	ND	5. µg/Kg				
-Dichloropropane	ND	5. µg/Kg				

QUALITY CONTROL DATA:

rrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	87	74 - 121
Dibromofluoromethane	120	80 - 120
luene-d8	90	81 - 117

ND - Not Detected

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NEL LABORATORIES

CLIENT:	Converse Environmental	CLIENT ID:	HA-16 / .5'
PROJECT ID:	Crown Cleaners	DATE SAMPLED:	2/3/98
PROJECT #:	97-42-318-04	NEL SAMPLE ID:	B9802005-07

TEST:	**Volatile Organic Compounds by EPA 8260A, September 1994**		
METHOD:	EPA 8260A	EXTRACTED:	2/11/98
MATRIX:	Soil	ANALYZED:	2/11/98
DILUTION:	1	ANALYST:	SCN

PARAMETER	Result µg/Kg	Reporting Limit	PARAMETER	Result µg/Kg		Reporting Limit
Acetone	ND	50. µg/Kg	2,2-Dichloropropane	ND		5. µg/Kg
Benzene	ND	5. µg/Kg	1,1-Dichloropropene	ND		5. µg/Kg
Bromobenzene	ND	5. µg/Kg	cis-1,3-Dichloropropene	ND		5. µg/Kg
Bromochloromethane	ND	5. µg/Kg	trans-1,3-Dichloropropene	ND		5. µg/Kg
Bromodichloromethane	ND	5. µg/Kg	Ethylbenzene	ND		5. µg/Kg
Bromoform	ND	5. µg/Kg	Hexachlorobutadiene	ND		5. µg/Kg
Bromomethane	ND	5. µg/Kg	2-Hexanone	ND		50. µg/Kg
2-Butanone	ND	50. µg/Kg	Iodomethane	ND		5. µg/Kg
n-Butylbenzene	ND	5. µg/Kg	Isopropylbenzene	ND		5. µg/Kg
sec-Butylbenzene	ND	5. µg/Kg	p-Isopropyltoluene	ND		5. µg/Kg
tert-Butylbenzene	ND	5. µg/Kg	Methylene chloride (Dichloromethane)	ND		10. µg/Kg
Carbon disulfide	ND	5. µg/Kg	4-Methyl-2-pentanone	ND		50. µg/Kg
Carbon tetrachloride	ND	5. µg/Kg	MTBE	ND		10. µg/Kg
Chlorobenzene	ND	5. µg/Kg	Naphthalene	ND		5. µg/Kg
Chloroethane	ND	5. µg/Kg	n-Propylbenzene	ND		5. µg/Kg
2-Chloroethyl vinyl ether	ND	10. µg/Kg	Styrene	ND		5. µg/Kg
Chloroform	ND	5. µg/Kg	1,1,1,2-Tetrachloroethane	ND		5. µg/Kg
Chloromethane	ND	5. µg/Kg	1,1,2,2-Tetrachloroethane	ND		5. µg/Kg
2-Chlorotoluene	ND	5. µg/Kg	Tetrachloroethene (PCE)	5,600	Di	250. µg/Kg
4-Chlorotoluene	ND	5. µg/Kg	Toluene	ND		5. µg/Kg
Dibromochloromethane	ND	5. µg/Kg	1,2,3-Trichlorobenzene	ND		5. µg/Kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	5. µg/Kg	1,2,4-Trichlorobenzene	ND		5. µg/Kg
1,2-Dibromoethane (EDB)	ND	5. µg/Kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND		5. µg/Kg
Dibromomethane	ND	5. µg/Kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND		5. µg/Kg
1,2-Dichlorobenzene (o-DCB)	ND	5. µg/Kg	Trichloroethene (TCE)	32		5. µg/Kg
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/Kg	Trichlorofluoromethane (Freon 11)	ND		5. µg/Kg
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/Kg	1,2,3-Trichloropropane	ND		5. µg/Kg
Dichlorodifluoromethane (Freon 12)	ND	5. µg/Kg	1,2,4-Trimethylbenzene	ND		5. µg/Kg
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/Kg	1,3,5-Trimethylbenzene	ND		5. µg/Kg
1,2-Dichloroethane (1,2-DCA)	8.12	5. µg/Kg	Vinyl chloride	ND		5. µg/Kg
1,1-Dichloroethene (1,1-DCE)	ND	5. µg/Kg	o-Xylene	ND		5. µg/Kg
cis-1,2-Dichloroethene	ND	5. µg/Kg	m,p-Xylene	ND		10. µg/Kg
trans-1,2-Dichloroethene	ND	5. µg/Kg				
1,2-Dichloropropane	ND	5. µg/Kg				
1,3-Dichloropropane	ND	5. µg/Kg				

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	87	74 - 121
Dibromofluoromethane	119	80 - 120
Toluene-d8	91	81 - 117

ND - Not Detected

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NEL LABORATORIES

LIENT:	Converse Environmental	CLIENT ID:	HA-16 / 3.5'
OJECT ID:	Crown Cleaners	DATE SAMPLED:	2/3/98
PROJECT #:	97-42-318-04	NEL SAMPLE ID:	B9802005-08
ST:	**Volatile Organic Compounds by EPA 8260A, September 1994**		
ETHOD:	EPA 8260A	EXTRACTED:	2/11/98
MATRIX:	Soil	ANALYZED:	2/11/98
LUTION:	1	ANALYST:	SCN

PARAMETER	Result µg/Kg	Reporting Limit	PARAMETER	Result µg/Kg		Reporting Limit
etone	ND	50. µg/Kg	2,2-Dichloropropane	ND		5. µg/Kg
nzene	ND	5. µg/Kg	1,1-Dichloropropene	ND		5. µg/Kg
Bromobenzene	ND	5. µg/Kg	cis-1,3-Dichloropropene	ND		5. µg/Kg
omochloromethane	ND	5. µg/Kg	trans-1,3-Dichloropropene	ND		5. µg/Kg
omodichloromethane	ND	5. µg/Kg	Ethylbenzene	ND		5. µg/Kg
Bromoform	ND	5. µg/Kg	Hexachlorobutadiene	ND		5. µg/Kg
omomethane	ND	5. µg/Kg	2-Hexanone	ND		50. µg/Kg
Butanone	ND	50. µg/Kg	Iodomethane	ND		5. µg/Kg
n-Butylbenzene	ND	5. µg/Kg	Isopropylbenzene	ND		5. µg/Kg
sec-Butylbenzene	ND	5. µg/Kg	p-Isopropyltoluene	ND		5. µg/Kg
-Butylbenzene	ND	5. µg/Kg	Methylene chloride (Dichloromethane)	ND		10. µg/Kg
bon disulfide	ND	5. µg/Kg	4-Methyl-2-pentanone	ND		50. µg/Kg
Carbon tetrachloride	ND	5. µg/Kg	MTBE	ND		10. µg/Kg
lorobenzene	ND	5. µg/Kg	Naphthalene	ND		5. µg/Kg
loroethane	ND	5. µg/Kg	n-Propylbenzene	ND		5. µg/Kg
2-Chloroethyl vinyl ether	ND	10. µg/Kg	Styrene	ND		5. µg/Kg
Chloroform	ND	5. µg/Kg	1,1,1,2-Tetrachloroethane	ND		5. µg/Kg
loromethane	ND	5. µg/Kg	1,1,2,2-Tetrachloroethane	ND		5. µg/Kg
2-Chlorotoluene	ND	5. µg/Kg	Tetrachloroethene (PCE)	210	E	5. µg/Kg
4-Chlorotoluene	ND	5. µg/Kg	Toluene	ND		5. µg/Kg
romochloromethane	ND	5. µg/Kg	1,2,3-Trichlorobenzene	ND		5. µg/Kg
-Dibromo-3-chloropropane (DBCP)	ND	5. µg/Kg	1,2,4-Trichlorobenzene	ND		5. µg/Kg
1,2-Dibromoethane (EDB)	ND	5. µg/Kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND		5. µg/Kg
romomethane	ND	5. µg/Kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND		5. µg/Kg
-Dichlorobenzene (o-DCB)	ND	5. µg/Kg	Trichloroethene (TCE)	43		5. µg/Kg
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/Kg	Trichlorofluoromethane (Freon 11)	ND		5. µg/Kg
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/Kg	1,2,3-Trichloropropane	ND		5. µg/Kg
hlorodifluoromethane (Freon 12)	ND	5. µg/Kg	1,2,4-Trimethylbenzene	ND		5. µg/Kg
,-Dichloroethane (1,1-DCA)	ND	5. µg/Kg	1,3,5-Trimethylbenzene	ND		5. µg/Kg
1,2-Dichloroethane (1,2-DCA)	9.5	5. µg/Kg	Vinyl chloride	ND		5. µg/Kg
-Dichloroethene (1,1-DCE)	ND	5. µg/Kg	o-Xylene	ND		5. µg/Kg
1,2-Dichloroethene	6.9	5. µg/Kg	m,p-Xylene	ND		10. µg/Kg
trans-1,2-Dichloroethene	ND	5. µg/Kg				
-Dichloropropane	ND	5. µg/Kg				
-Dichloropropane	ND	5. µg/Kg				

QUALITY CONTROL DATA:

rogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	87	74 - 121
Dibromofluoromethane	118	80 - 120
uene-d8	107	81 - 117

ND - Not Detected

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NEL LABORATORIES

CLIENT:	Converse Environmental	CLIENT ID:	HA-17 / 1'
PROJECT ID:	Crown Cleaners	DATE SAMPLED:	2/3/98
PROJECT #:	97-42-318-04	NEL SAMPLE ID:	B9802005-09

TEST: **Volatile Organic Compounds by EPA 8260A, September 1994**

METHOD:	EPA 8260A	EXTRACTED:	2/12/98
MATRIX:	Soil	ANALYZED:	2/12/98
DILUTION:	1	ANALYST:	SCN

PARAMETER	Result µg/Kg	Reporting Limit	PARAMETER	Result µg/Kg	Reporting Limit
Acetone	ND	50. µg/Kg	2,2-Dichloropropane	ND	5. µg/Kg
Benzene	ND	5. µg/Kg	1,1-Dichloropropene	ND	5. µg/Kg
Bromobenzene	ND	5. µg/Kg	cis-1,3-Dichloropropene	ND	5. µg/Kg
Bromochloromethane	ND	5. µg/Kg	trans-1,3-Dichloropropene	ND	5. µg/Kg
Bromodichloromethane	ND	5. µg/Kg	Ethylbenzene	ND	5. µg/Kg
Bromoform	ND	5. µg/Kg	Hexachlorobutadiene	ND	5. µg/Kg
Bromomethane	ND	5. µg/Kg	2-Hexanone	ND	50. µg/Kg
2-Butanone	ND	50. µg/Kg	Iodomethane	ND	5. µg/Kg
n-Butylbenzene	ND	5. µg/Kg	Isopropylbenzene	ND	5. µg/Kg
sec-Butylbenzene	ND	5. µg/Kg	p-Isopropyltoluene	ND	5. µg/Kg
tert-Butylbenzene	ND	5. µg/Kg	Methylene chloride (Dichloromethane)	ND	10. µg/Kg
Carbon disulfide	ND	5. µg/Kg	4-Methyl-2-pentanone	ND	50. µg/Kg
Carbon tetrachloride	ND	5. µg/Kg	MTBE	ND	10. µg/Kg
Chlorobenzene	ND	5. µg/Kg	Naphthalene	ND	5. µg/Kg
Chloroethane	ND	5. µg/Kg	n-Propylbenzene	ND	5. µg/Kg
2-Chloroethyl vinyl ether	ND	10. µg/Kg	Styrene	ND	5. µg/Kg
Chloroform	ND	5. µg/Kg	1,1,1,2-Tetrachloroethane	ND	5. µg/Kg
Chloromethane	ND	5. µg/Kg	1,1,2,2-Tetrachloroethane	ND	5. µg/Kg
2-Chlorotoluene	ND	5. µg/Kg	Tetrachloroethene (PCE)	63,000 Di	1000. µg/Kg
4-Chlorotoluene	ND	5. µg/Kg	Toluene	ND	5. µg/Kg
Dibromochloromethane	ND	5. µg/Kg	1,2,3-Trichlorobenzene	ND	5. µg/Kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	5. µg/Kg	1,2,4-Trichlorobenzene	ND	5. µg/Kg
1,2-Dibromoethane (EDB)	ND	5. µg/Kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND	5. µg/Kg
Dibromomethane	ND	5. µg/Kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND	5. µg/Kg
1,2-Dichlorobenzene (o-DCB)	ND	5. µg/Kg	Trichloroethene (TCE)	33	5. µg/Kg
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/Kg	Trichlorofluoromethane (Freon 11)	ND	5. µg/Kg
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/Kg	1,2,3-Trichloropropane	ND	5. µg/Kg
Dichlorodifluoromethane (Freon 12)	ND	5. µg/Kg	1,2,4-Trimethylbenzene	ND	5. µg/Kg
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/Kg	1,3,5-Trimethylbenzene	ND	5. µg/Kg
1,2-Dichloroethane (1,2-DCA)	14	5. µg/Kg	Vinyl chloride	ND	5. µg/Kg
1,1-Dichloroethene (1,1-DCE)	ND	5. µg/Kg	o-Xylene	ND	5. µg/Kg
cis-1,2-Dichloroethene	ND	5. µg/Kg	m,p-Xylene	ND	10. µg/Kg
trans-1,2-Dichloroethene	ND	5. µg/Kg			
1,2-Dichloropropane	ND	5. µg/Kg			
1,3-Dichloropropane	ND	5. µg/Kg			

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	88	74 - 121
Dibromofluoromethane	118	80 - 120
Toluene-d8	99	81 - 117

ND - Not Detected

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NEL LABORATORIES

CLIENT:	Converse Environmental	CLIENT ID:	HA-17 / 3.5'
PROJECT ID:	Crown Cleaners	DATE SAMPLED:	2/3/98
PROJECT #:	97-42-318-04	NEL SAMPLE ID:	B9802005-10
TEST:	**Volatile Organic Compounds by EPA 8260A, September 1994**		
METHOD:	EPA 8260A	EXTRACTED:	2/12/98
MATRIX:	Soil	ANALYZED:	2/12/98
DILUTION:	1	ANALYST:	SCN

PARAMETER	Result µg/Kg	Reporting Limit	PARAMETER	Result µg/Kg		Reporting Limit
Acetone	ND	50. µg/Kg	2,2-Dichloropropane	ND		5. µg/Kg
Benzene	ND	5. µg/Kg	1,1-Dichloropropene	ND		5. µg/Kg
Bromobenzene	ND	5. µg/Kg	cis-1,3-Dichloropropene	ND		5. µg/Kg
Bromochloromethane	ND	5. µg/Kg	trans-1,3-Dichloropropene	ND		5. µg/Kg
Bromodichloromethane	ND	5. µg/Kg	Ethylbenzene	ND		5. µg/Kg
Bromoform	ND	5. µg/Kg	Hexachlorobutadiene	ND		5. µg/Kg
Bromomethane	ND	5. µg/Kg	2-Hexanone	ND		50. µg/Kg
2-Butanone	ND	50. µg/Kg	Iodomethane	ND		5. µg/Kg
n-Butylbenzene	ND	5. µg/Kg	Isopropylbenzene	ND		5. µg/Kg
sec-Butylbenzene	ND	5. µg/Kg	p-Isopropyltoluene	ND		5. µg/Kg
tert-Butylbenzene	ND	5. µg/Kg	Methylene chloride (Dichloromethane)	ND		10. µg/Kg
Carbon disulfide	ND	5. µg/Kg	4-Methyl-2-pentanone	ND		50. µg/Kg
Carbon tetrachloride	ND	5. µg/Kg	MTBE	ND		10. µg/Kg
Chlorobenzene	ND	5. µg/Kg	Naphthalene	ND		5. µg/Kg
Chloroethane	ND	5. µg/Kg	n-Propylbenzene	ND		5. µg/Kg
2-Chloroethyl vinyl ether	ND	10. µg/Kg	Styrene	ND		5. µg/Kg
Chloroform	ND	5. µg/Kg	1,1,1,2-Tetrachloroethane	ND		5. µg/Kg
Chloromethane	ND	5. µg/Kg	1,1,2,2-Tetrachloroethane	ND		5. µg/Kg
2-Chlorotoluene	ND	5. µg/Kg	Tetrachloroethene (PCE)	5,500	Di	250. µg/Kg
4-Chlorotoluene	ND	5. µg/Kg	Toluene	ND		5. µg/Kg
Dibromochloromethane	ND	5. µg/Kg	1,2,3-Trichlorobenzene	ND		5. µg/Kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	5. µg/Kg	1,2,4-Trichlorobenzene	ND		5. µg/Kg
1,2-Dibromoethane (EDB)	ND	5. µg/Kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND		5. µg/Kg
Dibromomethane	ND	5. µg/Kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND		5. µg/Kg
1,2-Dichlorobenzene (o-DCB)	ND	5. µg/Kg	Trichloroethene (TCE)	81		5. µg/Kg
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/Kg	Trichlorofluoromethane (Freon 11)	ND		5. µg/Kg
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/Kg	1,2,3-Trichloropropane	ND		5. µg/Kg
Dichlorodifluoromethane (Freon 12)	ND	5. µg/Kg	1,2,4-Trimethylbenzene	ND		5. µg/Kg
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/Kg	1,3,5-Trimethylbenzene	ND		5. µg/Kg
1,2-Dichloroethane (1,2-DCA)	7.8	5. µg/Kg	Vinyl chloride	ND		5. µg/Kg
1,1-Dichloroethene (1,1-DCE)	ND	5. µg/Kg	o-Xylene	ND		5. µg/Kg
cis-1,2-Dichloroethene	5.5	5. µg/Kg	m,p-Xylene	ND		10. µg/Kg
trans-1,2-Dichloroethene	ND	5. µg/Kg				
1,2-Dichloropropane	ND	5. µg/Kg				
1,3-Dichloropropane	ND	5. µg/Kg				

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	85	74 - 121
Dibromofluoromethane	116	80 - 120
Toluene-d8	95	81 - 117

ND - Not Detected

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NEL LABORATORIES

CLIENT:	Converse Environmental	CLIENT ID:	HA-15-Water
PROJECT ID:	Crown Cleaners	DATE SAMPLED:	2/4/98
PROJECT #:	97-42-318-04	NEL SAMPLE ID:	B9802005-11

TEST: **Volatile Organic Compounds by EPA 8260A, September 1994**

METHOD:	EPA 8260A	EXTRACTED:	2/9/98
MATRIX:	Water	ANALYZED:	2/9/98
DILUTION:	1	ANALYST:	LRA

PARAMETER	Result µg/L	Reporting Limit	PARAMETER	Result µg/L		Reporting Limit
Acetone	ND	50. µg/L	2,2-Dichloropropane	ND		5. µg/L
Benzene	ND	5. µg/L	1,1-Dichloropropene	ND		5. µg/L
Bromobenzene	ND	5. µg/L	cis-1,3-Dichloropropene	ND		5. µg/L
Bromochloromethane	ND	5. µg/L	trans-1,3-Dichloropropene	ND		5. µg/L
Bromodichloromethane	ND	5. µg/L	Ethylbenzene	ND		5. µg/L
Bromoform	ND	5. µg/L	Hexachlorobutadiene	ND		5. µg/L
Bromomethane	ND	5. µg/L	2-Hexanone	ND		50. µg/L
2-Butanone	ND	50. µg/L	Iodomethane	ND		5. µg/L
n-Butylbenzene	ND	5. µg/L	Isopropylbenzene	ND		5. µg/L
sec-Butylbenzene	ND	5. µg/L	p-Isopropyltoluene	ND		5. µg/L
tert-Butylbenzene	ND	5. µg/L	Methylene chloride (Dichloromethane)	ND		10. µg/L
Carbon disulfide	ND	5. µg/L	4-Methyl-2-pentanone	ND		50. µg/L
Carbon tetrachloride	ND	5. µg/L	MTBE	ND		10. µg/L
Chlorobenzene	ND	5. µg/L	Naphthalene	ND		5. µg/L
Chloroethane	ND	5. µg/L	n-Propylbenzene	ND		5. µg/L
2-Chloroethyl vinyl ether	ND	10. µg/L	Styrene	ND		5. µg/L
Chloroform	ND	5. µg/L	1,1,1,2-Tetrachloroethane	ND		5. µg/L
Chloromethane	ND	5. µg/L	1,1,2,2-Tetrachloroethane	ND		5. µg/L
2-Chlorotoluene	ND	5. µg/L	Tetrachloroethene (PCE)	870	Di	50. µg/L
4-Chlorotoluene	ND	5. µg/L	Toluene	ND		5. µg/L
Dibromochloromethane	ND	5. µg/L	1,2,3-Trichlorobenzene	ND		5. µg/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	5. µg/L	1,2,4-Trichlorobenzene	ND		5. µg/L
1,2-Dibromoethane (EDB)	ND	5. µg/L	1,1,1-Trichloroethane (1,1,1-TCA)	ND		5. µg/L
Dibromomethane	ND	5. µg/L	1,1,2-Trichloroethane (1,1,2-TCA)	ND		5. µg/L
1,2-Dichlorobenzene (o-DCB)	ND	5. µg/L	Trichloroethene (TCE)	37		5. µg/L
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/L	Trichlorofluoromethane (Freon 11)	ND		5. µg/L
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/L	1,2,3-Trichloropropane	ND		5. µg/L
Dichlorodifluoromethane (Freon 12)	ND	5. µg/L	1,2,4-Trimethylbenzene	ND		5. µg/L
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/L	1,3,5-Trimethylbenzene	ND		5. µg/L
1,2-Dichloroethane (1,2-DCA)	ND	5. µg/L	Vinyl chloride	ND		5. µg/L
1,1-Dichloroethene (1,1-DCE)	ND	5. µg/L	o-Xylene	ND		5. µg/L
cis-1,2-Dichloroethene	ND	5. µg/L	m,p-Xylene	ND		10. µg/L
trans-1,2-Dichloroethene	ND	5. µg/L				
1,2-Dichloropropane	ND	5. µg/L				
1,3-Dichloropropane	ND	5. µg/L				

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	93	86 - 115
Dibromofluoromethane	101	86 - 118
Toluene-d8	97	88 - 110

ND - Not Detected

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NEL LABORATORIES

C ENT:	Converse Environmental	CLIENT ID:	MW-1 / 10'
P OJECT ID:	Crown Cleaners	DATE SAMPLED:	2/5/98
PROJECT #:	97-42-318-04	NEL SAMPLE ID:	B9802005-12
T ST:	**Volatile Organic Compounds by EPA 8260A, September 1994**		
M THOD:	EPA 8260A	EXTRACTED:	2/12/98
MATRIX:	Soil	ANALYZED:	2/12/98
D UTION:	1	ANALYST:	SCN

PARAMETER	Result µg/Kg	Reporting Limit	PARAMETER	Result µg/Kg	Reporting Limit
A tone	ND	50. µg/Kg	2,2-Dichloropropane	ND	5. µg/Kg
B zene	ND	5. µg/Kg	1,1-Dichloropropene	ND	5. µg/Kg
Bromobenzene	ND	5. µg/Kg	cis-1,3-Dichloropropene	ND	5. µg/Kg
B mochloromethane	ND	5. µg/Kg	trans-1,3-Dichloropropene	ND	5. µg/Kg
B modichloromethane	ND	5. µg/Kg	Ethylbenzene	ND	5. µg/Kg
Bromoform	ND	5. µg/Kg	Hexachlorobutadiene	ND	5. µg/Kg
B momethane	ND	5. µg/Kg	2-Hexanone	ND	50. µg/Kg
2 tanone	ND	50. µg/Kg	Iodomethane	ND	5. µg/Kg
n-Butylbenzene	ND	5. µg/Kg	Isopropylbenzene	ND	5. µg/Kg
sec-Butylbenzene	ND	5. µg/Kg	p-Isopropyltoluene	ND	5. µg/Kg
t Butylbenzene	ND	5. µg/Kg	Methylene chloride (Dichloromethane)	ND	10. µg/Kg
C on disulfide	ND	5. µg/Kg	4-Methyl-2-pentanone	ND	50. µg/Kg
Carbon tetrachloride	ND	5. µg/Kg	MTBE	ND	10. µg/Kg
C robenzene	ND	5. µg/Kg	Naphthalene	ND	5. µg/Kg
C roethane	ND	5. µg/Kg	n-Propylbenzene	ND	5. µg/Kg
2-Chloroethyl vinyl ether	ND	10. µg/Kg	Styrene	ND	5. µg/Kg
C loroform	ND	5. µg/Kg	1,1,1,2-Tetrachloroethane	ND	5. µg/Kg
C romethane	ND	5. µg/Kg	1,1,2,2-Tetrachloroethane	ND	5. µg/Kg
2-Chlorotoluene	ND	5. µg/Kg	Tetrachloroethene (PCE)	130	5. µg/Kg
4-Chlorotoluene	ND	5. µg/Kg	Toluene	ND	5. µg/Kg
D omochloromethane	ND	5. µg/Kg	1,2,3-Trichlorobenzene	ND	5. µg/Kg
1 Dibromo-3-chloropropane (DBCP)	ND	5. µg/Kg	1,2,4-Trichlorobenzene	ND	5. µg/Kg
1,2-Dibromoethane (EDB)	ND	5. µg/Kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND	5. µg/Kg
D omomethane	ND	5. µg/Kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND	5. µg/Kg
1 Dichlorobenzene (o-DCB)	ND	5. µg/Kg	Trichloroethene (TCE)	68	5. µg/Kg
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/Kg	Trichlorofluoromethane (Freon 11)	ND	5. µg/Kg
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/Kg	1,2,3-Trichloropropane	ND	5. µg/Kg
D lorodifluoromethane (Freon 12)	ND	5. µg/Kg	1,2,4-Trimethylbenzene	ND	5. µg/Kg
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/Kg	1,3,5-Trimethylbenzene	ND	5. µg/Kg
1,2-Dichloroethane (1,2-DCA)	ND	5. µg/Kg	Vinyl chloride	ND	5. µg/Kg
1 Dichloroethene (1,1-DCE)	ND	5. µg/Kg	o-Xylene	ND	5. µg/Kg
ci ,2-Dichloroethene	ND	5. µg/Kg	m,p-Xylene	ND	10. µg/Kg
trans-1,2-Dichloroethene	ND	5. µg/Kg			
1, Dichloropropane	ND	5. µg/Kg			
1, Dichloropropane	ND	5. µg/Kg			

QUALITY CONTROL DATA:

S ogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	86	74 - 121
Dibromofluoromethane	120	80 - 120
T ene-d8	97	81 - 117

ND - Not Detected

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NEL LABORATORIES

CLIENT: Converse Environmental
PROJECT ID: Crown Cleaners
PROJECT #: 97-42-318-04

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 020998-MSV1-BLK

TEST: **Volatile Organic Compounds by EPA 8260A, September 1994**
METHOD: EPA 8260A
MATRIX: Water

ANALYST: LRA
EXTRACTED: 2/9/98
ANALYZED: 2/9/98

PARAMETER	Result µg/L	Reporting Limit	PARAMETER	Result µg/L	Reporting Limit
Acetone	ND	50 µg/L	1,3-Dichloropropane	ND	5 µg/L
Benzene	ND	5 µg/L	2,2-Dichloropropane	ND	5 µg/L
Bromobenzene	ND	5 µg/L	1,1-Dichloropropene	ND	5 µg/L
Bromochloromethane	ND	5 µg/L	cis-1,3-Dichloropropene	ND	5 µg/L
Bromodichloromethane	ND	5 µg/L	trans-1,3-Dichloropropene	ND	5 µg/L
Bromoform	ND	5 µg/L	Ethylbenzene	ND	5 µg/L
Bromomethane	ND	5 µg/L	Hexachlorobutadiene	ND	5 µg/L
2-Butanone	ND	50 µg/L	2-Hexanone	ND	50 µg/L
n-Butylbenzene	ND	5 µg/L	Iodomethane	ND	5 µg/L
sec-Butylbenzene	ND	5 µg/L	Isopropylbenzene	ND	5 µg/L
tert-Butylbenzene	ND	5 µg/L	p-Isopropyltoluene	ND	5 µg/L
Carbon disulfide	ND	5 µg/L	Methylene chloride (Dichloromethane)	ND	10 µg/L
Carbon tetrachloride	ND	5 µg/L	4-Methyl-2-pentanone	ND	50 µg/L
Chlorobenzene	ND	5 µg/L	MTBE	ND	10 µg/L
Chloroethane	ND	5 µg/L	Naphthalene	ND	5 µg/L
2-Chloroethyl vinyl ether	ND	10 µg/L	n-Propylbenzene	ND	5 µg/L
Chloroform	ND	5 µg/L	Styrene	ND	5 µg/L
Chloromethane	ND	5 µg/L	1,1,1,2-Tetrachloroethane	ND	5 µg/L
2-Chlorotoluene	ND	5 µg/L	1,1,2,2-Tetrachloroethane	ND	5 µg/L
4-Chlorotoluene	ND	5 µg/L	Tetrachloroethene (PCE)	ND	5 µg/L
Dibromochloromethane	ND	5 µg/L	Toluene	ND	5 µg/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	5 µg/L	1,2,3-Trichlorobenzene	ND	5 µg/L
1,2-Dibromoethane (EDB)	ND	5 µg/L	1,2,4-Trichlorobenzene	ND	5 µg/L
Dibromomethane	ND	5 µg/L	1,1,1-Trichloroethane (1,1,1-TCA)	ND	5 µg/L
1,2-Dichlorobenzene (o-DCB)	ND	5 µg/L	1,1,2-Trichloroethane (1,1,2-TCA)	ND	5 µg/L
1,3-Dichlorobenzene (m-DCB)	ND	5 µg/L	Trichloroethene (TCE)	ND	5 µg/L
1,4-Dichlorobenzene (p-DCB)	ND	5 µg/L	Trichlorofluoromethane (Freon 11)	ND	5 µg/L
Dichlorodifluoromethane (Freon 12)	ND	5 µg/L	1,2,3-Trichloropropane	ND	5 µg/L
1,1-Dichloroethane (1,1-DCA)	ND	5 µg/L	1,2,4-Trimethylbenzene	ND	5 µg/L
1,2-Dichloroethane (1,2-DCA)	ND	5 µg/L	1,3,5-Trimethylbenzene	ND	5 µg/L
1,1-Dichloroethene (1,1-DCE)	ND	5 µg/L	Vinyl chloride	ND	5 µg/L
cis-1,2-Dichloroethene	ND	5 µg/L	o-Xylene	ND	5 µg/L
trans-1,2-Dichloroethene	ND	5 µg/L	m,p-Xylene	ND	10 µg/L
1,2-Dichloropropane	ND	5 µg/L			

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	87	86 - 115
Dibromofluoromethane	101	86 - 118
Toluene-d8	93	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	Converse Environmental	CLIENT ID:	**Method Blank**
PROJECT ID:	Crown Cleaners	DATE SAMPLED:	NA
PROJECT #:	97-42-318-04	NEL SAMPLE ID:	021198-MSV2-BLK
TEST:	**Volatile Organic Compounds by EPA 8260A, September 1994**		
METHOD:	EPA 8260A	ANALYST:	SCN
MATRIX:	Soil	EXTRACTED:	2/11/98
		ANALYZED:	2/11/98

PARAMETER	Result µg/Kg	Reporting Limit	PARAMETER	Result µg/Kg	Reporting Limit
etone	ND	50µg/Kg	1,3-Dichloropropane	ND	5µg/Kg
nzene	ND	5µg/Kg	2,2-Dichloropropane	ND	5µg/Kg
Bromobenzene	ND	5µg/Kg	1,1-Dichloropropene	ND	5µg/Kg
omochloromethane	ND	5µg/Kg	cis-1,3-Dichloropropene	ND	5µg/Kg
omodichloromethane	ND	5µg/Kg	trans-1,3-Dichloropropene	ND	5µg/Kg
Bromoform	ND	5µg/Kg	Ethylbenzene	ND	5µg/Kg
Bromomethane	ND	5µg/Kg	Hexachlorobutadiene	ND	5µg/Kg
Butanone	ND	50µg/Kg	2-Hexanone	ND	50µg/Kg
Butylbenzene	ND	5µg/Kg	Iodomethane	ND	5µg/Kg
sec-Butylbenzene	ND	5µg/Kg	Isopropylbenzene	ND	5µg/Kg
t-Butylbenzene	ND	5µg/Kg	p-Isopropyltoluene	ND	5µg/Kg
rbon disulfide	ND	5µg/Kg	Methylene chloride (Dichloromethane)	ND	10µg/Kg
Carbon tetrachloride	ND	5µg/Kg	4-Methyl-2-pentanone	ND	50µg/Kg
lorobenzene	ND	5µg/Kg	MTBE	ND	10µg/Kg
loroethane	ND	5µg/Kg	Naphthalene	ND	5µg/Kg
2-Chloroethyl vinyl ether	ND	10µg/Kg	n-Propylbenzene	ND	5µg/Kg
Chloroform	ND	5µg/Kg	Styrene	ND	5µg/Kg
loromethane	ND	5µg/Kg	1,1,1,2-Tetrachloroethane	ND	5µg/Kg
Chlorotoluene	ND	5µg/Kg	1,1,2,2-Tetrachloroethane	ND	5µg/Kg
4-Chlorotoluene	ND	5µg/Kg	Tetrachloroethene (PCE)	ND	5µg/Kg
bromochloromethane	ND	5µg/Kg	Toluene	ND	5µg/Kg
-Dibromo-3-chloropropane (DBCP)	ND	5µg/Kg	1,2,3-Trichlorobenzene	ND	5µg/Kg
1,2-Dibromoethane (EDB)	ND	5µg/Kg	1,2,4-Trichlorobenzene	ND	5µg/Kg
Dibromomethane	ND	5µg/Kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND	5µg/Kg
-Dichlorobenzene (o-DCB)	ND	5µg/Kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND	5µg/Kg
,3-Dichlorobenzene (m-DCB)	ND	5µg/Kg	Trichloroethene (TCE)	ND	5µg/Kg
1,4-Dichlorobenzene (p-DCB)	ND	5µg/Kg	Trichlorofluoromethane (Freon 11)	ND	5µg/Kg
Chlorodifluoromethane (Freon 12)	ND	5µg/Kg	1,2,3-Trichloropropane	ND	5µg/Kg
-Dichloroethane (1,1-DCA)	ND	5µg/Kg	1,2,4-Trimethylbenzene	ND	5µg/Kg
1,2-Dichloroethane (1,2-DCA)	ND	5µg/Kg	1,3,5-Trimethylbenzene	ND	5µg/Kg
-Dichloroethene (1,1-DCE)	ND	5µg/Kg	Vinyl chloride	ND	5µg/Kg
-1,2-Dichloroethene	ND	5µg/Kg	o-Xylene	ND	5µg/Kg
trans-1,2-Dichloroethene	ND	5µg/Kg	m,p-Xylene	ND	10µg/Kg
1,2-Dichloropropane	ND	5µg/Kg			

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
Bromofluorobenzene	86	74 - 121
Bromofluoromethane	111	80 - 120
Toluene-d8	89	81 - 117

ND - Not Detected

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NEL LABORATORIES

CLIENT:	Converse Environmental	CLIENT ID:	**Method Blank**
PROJECT ID:	Crown Cleaners	DATE SAMPLED:	NA
PROJECT #:	97-42-318-04	NEL SAMPLE ID:	021298-MSV1-BLK
TEST:	**Volatile Organic Compounds by EPA 8260A, September 1994**		
METHOD:	EPA 8260A	ANALYST:	SCN
MATRIX:	Soil	EXTRACTED:	2/12/98
		ANALYZED:	2/12/98

PARAMETER	Result µg/Kg	Reporting Limit	PARAMETER	Result µg/Kg	Reporting Limit
Acetone	ND	50µg/Kg	1,3-Dichloropropane	ND	5µg/Kg
Benzene	ND	5µg/Kg	2,2-Dichloropropane	ND	5µg/Kg
Bromobenzene	ND	5µg/Kg	1,1-Dichloropropene	ND	5µg/Kg
Bromochloromethane	ND	5µg/Kg	cis-1,3-Dichloropropene	ND	5µg/Kg
Bromodichloromethane	ND	5µg/Kg	trans-1,3-Dichloropropene	ND	5µg/Kg
Bromoform	ND	5µg/Kg	Ethylbenzene	ND	5µg/Kg
Bromomethane	ND	5µg/Kg	Hexachlorobutadiene	ND	5µg/Kg
2-Butanone	ND	50µg/Kg	2-Hexanone	ND	50µg/Kg
n-Butylbenzene	ND	5µg/Kg	Iodomethane	ND	5µg/Kg
sec-Butylbenzene	ND	5µg/Kg	Isopropylbenzene	ND	5µg/Kg
tert-Butylbenzene	ND	5µg/Kg	p-Isopropyltoluene	ND	5µg/Kg
Carbon disulfide	ND	5µg/Kg	Methylene chloride (Dichloromethane)	ND	10µg/Kg
Carbon tetrachloride	ND	5µg/Kg	4-Methyl-2-pentanone	ND	50µg/Kg
Chlorobenzene	ND	5µg/Kg	MTBE	ND	10µg/Kg
Chloroethane	ND	5µg/Kg	Naphthalene	ND	5µg/Kg
2-Chloroethyl vinyl ether	ND	10µg/Kg	n-Propylbenzene	ND	5µg/Kg
Chloroform	ND	5µg/Kg	Styrene	ND	5µg/Kg
Chloromethane	ND	5µg/Kg	1,1,1,2-Tetrachloroethane	ND	5µg/Kg
2-Chlorotoluene	ND	5µg/Kg	1,1,2,2-Tetrachloroethane	ND	5µg/Kg
4-Chlorotoluene	ND	5µg/Kg	Tetrachloroethene (PCE)	ND	5µg/Kg
Dibromochloromethane	ND	5µg/Kg	Toluene	ND	5µg/Kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	5µg/Kg	1,2,3-Trichlorobenzene	ND	5µg/Kg
1,2-Dibromoethane (EDB)	ND	5µg/Kg	1,2,4-Trichlorobenzene	ND	5µg/Kg
Dibromomethane	ND	5µg/Kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND	5µg/Kg
1,2-Dichlorobenzene (o-DCB)	ND	5µg/Kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND	5µg/Kg
1,3-Dichlorobenzene (m-DCB)	ND	5µg/Kg	Trichloroethene (TCE)	ND	5µg/Kg
1,4-Dichlorobenzene (p-DCB)	ND	5µg/Kg	Trichlorofluoromethane (Freon 11)	ND	5µg/Kg
Dichlorodifluoromethane (Freon 12)	ND	5µg/Kg	1,2,3-Trichloropropane	ND	5µg/Kg
1,1-Dichloroethane (1,1-DCA)	ND	5µg/Kg	1,2,4-Trimethylbenzene	ND	5µg/Kg
1,2-Dichloroethane (1,2-DCA)	ND	5µg/Kg	1,3,5-Trimethylbenzene	ND	5µg/Kg
1,1-Dichloroethene (1,1-DCE)	ND	5µg/Kg	Vinyl chloride	ND	5µg/Kg
cis-1,2-Dichloroethene	ND	5µg/Kg	o-Xylene	ND	5µg/Kg
trans-1,2-Dichloroethene	ND	5µg/Kg	m,p-Xylene	ND	10µg/Kg
1,2-Dichloropropane	ND	5µg/Kg			

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	87	74 - 121
Dibromofluoromethane	114	80 - 120
Toluene-d8	96	81 - 117

ND - Not Detected

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:L OR...ORIL... CI ...C :U! DY

Reno • Las Vegas
Phoenix • Burbank

Burbank Division •700 S. Flower Street • Burbank, CA 91502
(818) 841-4985 • Fax: (818) 567-6477 • 1-800-320-6595

Project Name: Crown Cleaners | Project No.: 96-42-318-04
P.O. No.: | Sampled By: SSM

Company: Converse Con. Attn.: Henry Ames
Address: 185 E. Paularino Ave.
Phone No.: (714) 444-9660 Fax No.:
Billing Address: — Expected Due Date:

Requested Turnaround: X 5 Day (Normal) ____ 48 Hr. ____ 24 Hr. ____ Other

Sample Date/Time	Sample ID	N.E.L. Identification	# of Containers	Matrix (Box #1)	Preservative (Box #2)	Expected Concentration (Box #3)	Analysis: EPA Method 8010 TCLP for PCE (8260?)	pH (for lab use only)	Remarks
~~2/3/98~~ 2/3/98	HA-13/.5'	B9802005-01	1	Soil		L	X		09 - only run 8260 per Henry Ames 2-5-98 SR & RS
	HA-13/3.5'	-02	1			L	X		
	HA-14/.5'	-03	1			L	X		
	HA-14/3.5'	-04	1			L	X		
	HA-15/.5'	-05	1			L	X		
	HA-15/3.5'	-06	1			L	X		
	HA-16/.5'	-07	1			L	X		
	HA-16/3.5'	-08	1			L	X		
	HA-17/1'	-09	1			L		X	Please call re this test
	HA-17/3.5'	-10	1			L	X		

Custody Seal intact? Y N None Temp. ____
Condition when received good

Box #1			
	DW - Drinking Water	SO - Soil	
	WW - Waste Water	SD - Solid	
	RW - RCRA Water	AQ - Aqueous	
	OL - Oil	A - Air	
	SG - Sludge		

Box #2		
	A. HCl	E. Ice Only
	B. HNO_3	F. Other____
	C. H_2SO_4	G. Not Preserved
	D. NaOH	

Box #3	
	H - High
	M - Medium
	L - Low
	U - Unknown

Relinquished by (Print)	(Signature)	Date/Time	Received by (Print)	(Signature)	Date/Time
1 Henry Ames	Henry B. Ames	2/5/98 12:30pm	Shannon Robert	SR	2-5-98 12:30
2					
3					
4					

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.

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CHAIN OF CUSTODY

Project Name: Crown Cleaners | Project No.: 96-42-318-04
P.O. No.: | Sampled By: SSM

Company: Converse Con. | Attn.: Henry Ames
Address: 185 E. Palarino Ave.
Phone No.: (714) 444-9660 | Fax No.:
Billing Address: | Expected Due Date:

Requested Turnaround: X 5 Day (Normal) ____ 48 Hr. ____ 24 Hr. ____ Other

Sample Date/Time	Sample ID	N.E.L. Identification	# of Containers	Matrix (Box #1)	Preservative (Box #2)	Expected Concentration (Box #3)	Analysis: EPA Method 8010 + 8260	pH (for lab use only)	Remarks
2/4/98	HA-15 - WATER HA15	B9802005-11	2	H2O		L	X		
2/5/98	MW-1 / 10'	-12	1	50G		L	X		

Custody Seal intact? Y N None Temp. _____
Condition when received good

Box #1: DW - Drinking Water; WW - Waste Water; RW - RCRA Water; OL - Oil; SG - Sludge; SO - Soil; SD - Solid; AQ - Aqueous; A - Air

Box #2: A. HCl; B. HNO_3; C. H_2SO_4; D. NaOH; E. Ice Only; F. Other _____; G. Not Preserved

Box #3: H - High; M - Medium; L - Low; U - Unknown

	Relinquished by (Print)	(Signature)	Date/Time	Received by (Print)	(Signature)	Date/Time
1	Henry Ames	Henry Ames	2/5/98 12:30pM	Shannon Robert	SR	12:30 2-5-98
2						
3						
4						

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.

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(714) 437-5200 • Fax: (714) 556-5625
1-800-320-6595

RECEIVED
MAR 27 1998

CLIENT: Converse Environmental
185 East Paularino Avenue
Costa Mesa, CA 92626
ATTN: Henry Ames

PROJECT NAME: Crown Cleaners
PROJECT #: 97-42-318-04

NEL ORDER ID: B9803035

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 3/23/98.

Samples were analyzed as received.

Where applicable we have included the following quality control data:

Method blank - used to demonstrate absence of contamination or interferences in the analytical process.
Laboratory Control Spike (LCS) - used to demonstrate laboratory ability to perform the method within specifications by spiking representative analytes into a clean matrix.
Surrogates - compounds added to each sample to ensure that the method requirements are met for each individual sample.

Should you have any questions or comments, please feel free to contact our Client Services department at (714)-437-5200 .

Laboratory Manager

3/24/98
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0583
California	1707	2002	1192
US Army Corps of Engineers	Certified	Certified	Certified

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
Washington			Certified

NEL LABORATORIES

CLIENT:	Converse Environmental	CLIENT ID:	**MW-1**
PROJECT ID:	Crown Cleaners	DATE SAMPLED:	3/20/98
PROJECT #:	97-42-318-04	NEL SAMPLE ID:	B9803035-01

TEST: **Halogenated Volatile Organics (8010A Parameters) by EPA 8240A, July 1992**

METHOD:	EPA 8240B	ANALYST:	LRA
MATRIX:	Aqueous	EXTRACTED:	3/24/98
DILUTION:	I	ANALYZED:	3/24/98

PARAMETER	Result	Reporting Limit
Bromodichloromethane	ND	5. µg/L
Bromoform	ND	5. µg/L
Bromomethane	ND	5. µg/L
Chlorobenzene	ND	5. µg/L
Carbon disulfide	ND	5. µg/L
2-Chloroethyl vinyl ether	ND	5. µg/L
Carbon tetrachloride	ND	5. µg/L
Chloroethane	ND	5. µg/L
Chloroform	ND	5. µg/L
Chloromethane	ND	5. µg/L
2-Chloroethylvinyl ether	ND	5. µg/L
Dibromochloromethane	ND	5. µg/L
Dichlorodifluoromethane (Freon 12)	ND	5. µg/L
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/L
1,2-Dichloroethane (1,2-DCA)	ND	5. µg/L
1,1-Dichloroethene (1,1-DCE)	ND	5. µg/L
cis-1,2-Dichloroethene	ND	5. µg/L
trans-1,2-Dichloroethene	ND	5. µg/L
1,2-Dichloropropane	ND	5. µg/L
cis-1,3-Dichloropropene	ND	5. µg/L
trans-1,3-Dichloropropene	ND	5. µg/L
Methylene chloride (Dichloromethane)	ND	5. µg/L
Tetrachloroethene (PCE)	ND	5. µg/L
1,1,2,2-Tetrachloroethane	ND	5. µg/L
1,1,1-Trichloroethane (1,1,1-TCA)	ND	5. µg/L
1,1,2-Trichloroethane (1,1,2-TCA)	ND	5. µg/L
Trichloroethene (TCE)	ND	5. µg/L
Trichlorofluoromethane (Freon 11)	ND	5. µg/L
Vinyl chloride	ND	5. µg/L
1,2-Dichlorobenzene (o-DCB)	ND	5. µg/L
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/L
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	86	85 - 115
Dibromofluoromethane	100	86 - 118
Toluene-d8	94	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	Converse Environmental	CLIENT ID:	**Method Blank**
PROJECT ID:	Crown Cleaners	DATE SAMPLED:	NA
PROJECT #:	97-42-318-04	NEL SAMPLE ID:	032498-MSV1-BLK
TEST:	**Halogenated Volatile Organics (8010A Parameters) by EPA 8240A, July 1992**		
METHOD:	EPA 8240B	ANALYST:	LRA
MATRIX:	Aqueous	EXTRACTED:	3/24/98
		ANALYZED:	3/24/98

PARAMETER	Result	Reporting Limit
Bromodichloromethane	ND	5. µg/L
Bromoform	ND	5. µg/L
Bromomethane	ND	5. µg/L
Chlorobenzene	ND	5. µg/L
Chloroethyl vinyl ether	ND	5. µg/L
Carbon disulfide	ND	5. µg/L
Carbon tetrachloride	ND	5. µg/L
Chloroethane	ND	5. µg/L
Chloroform	ND	5. µg/L
Chloromethane	ND	5. µg/L
2-Chloroethylvinyl ether	ND	5. µg/L
Dibromochloromethane	ND	5. µg/L
Dichlorodifluoromethane (Freon 12)	ND	5. µg/L
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/L
1,2-Dichloroethane (1,2-DCA)	ND	5. µg/L
1,1-Dichloroethene (1,1-DCE)	ND	5. µg/L
cis-1,2-Dichloroethene	ND	5. µg/L
trans-1,2-Dichloroethene	ND	5. µg/L
1,2-Dichloropropane	ND	5. µg/L
cis-1,3-Dichloropropene	ND	5. µg/L
trans-1,3-Dichloropropene	ND	5. µg/L
Methylene chloride (Dichloromethane)	ND	5. µg/L
Tetrachloroethene (PCE)	ND	5. µg/L
1,1,2,2-Tetrachloroethane	ND	5. µg/L
1,1,1-Trichloroethane (1,1,1-TCA)	ND	5. µg/L
1,1,2-Trichloroethane (1,1,2-TCA)	ND	5. µg/L
Trichloroethene (TCE)	ND	5. µg/L
Trichlorofluoromethane (Freon 11)	ND	5. µg/L
Vinyl chloride	ND	5. µg/L
1,2-Dichlorobenzene (o-DCB)	ND	5. µg/L
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/L
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	92	85 - 115
Dibromofluoromethane	98	86 - 118
Toluene-d8	89	88 - 110

ND Not Detected

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(818) 841-4985 • Fax: (818) 567-6477 • 1-800-320-6595

CHAIN OF CUSTODY

Project Name: Crown Cleaners | Project No.: 96-42318-04
P.O. No.: | Sampled By: HBA

Company: Converse Consultants Attn.: Henry Ames
Address: 185 E. Paularino Ave Ste B Costa Mesa, CA
Phone No.: 714 444-9660 Fax No.: 714 444 9640
Billing Address: A.A. Expected Due Date:

Requested Turnaround: X 5 Day (Normal) ____ 48 Hr. ____ 24 Hr. ____ Other

Sample Date/Time	Sample ID	N.E.L. Identification	# of Containers	Matrix (Box #1)	Preservative (Box #2)	Expected Concentration (Box #3)	Analysis: EPA Method 8010 by 8240	pH (for lab use only)	Remarks
3/20/98/5:10pm	MW-1	B9803035-01	4	AQ	A	L	X		

Custody Seal intact? Y N None Temp. _____
Condition when received good

Box #1: DW - Drinking Water; WW - Waste Water; RW - RCRA Water; OL - Oil; SG - Sludge; SO - Soil; SD - Solid; AQ - Aqueous; A - Air

Box #2: A. HCl; B. HNO_3; C. H_2SO_4; D. NaOH; E. Ice Only; F. Other_____; G. Not Preserved

Box #3: H - High; M - Medium; L - Low; U - Unknown

	Relinquished by (Print)	(Signature)	Date/Time	Received by (Print)	(Signature)	Date/Time
1	Henry B. Ames	Henry B. Ames	3/23/98 1520	Dan Van Haeren	Dan Van Haeren	3/23/98 1520
2						
3						
4						

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Converse Consultants
Over 50 Years of Dedication in Geotechnical Engineering and Environmental Sciences

July 21, 1999

Mr. Bill Mendelsohn
Donahue Schriber Reality Group, L.P.
3501 Jamboree Road, Suite 300, South Tower
Newport Beach, California 92660

Subject: **Site Exploration and Groundwater Monitoring Well Installation**
Crown Cleaners (existing dry cleaner facility)
18583 Brookhurst Street
Fountain Valley, California
County Case #96IC31
Converse Project No. 98-42-589-169

Dear Mr. Mendelsohn:

This report summarizing the findings from the additional *Site Exploration and Groundwater Monitoring Well Installation* work conducted by Converse Consultants (Converse) at Callens Corner Shopping Center site within Crown Cleaners in Fountain Valley, California. For general site location, see Figure 1. For Callens Corner Shopping Center site plan, see Figure 2.

The work was conducted on May 26,1999 and was performed in general accordance with our Work Plan that was submitted and was accepted by the Orange County Health Care Agency (County) in their letter dated May 13, 1999.

BACKGROUND

As presented in our *Summary Report - Site Investigation Results*, dated August 6, 1996, tetrachloroethene (PCE) and trichloroethene (TCE) was reported in the subsurface soils near the existing dry cleaner equipment and outside the rear door of the facility. For analytical results see Table 1: Soil /Water Analytical Results. The County reviewed the report, and concluded that an excess lifetime cancer risk (ELCR) exists within the above referenced facility, as presented in their letter dated September 13, 1996. Based on the unacceptable ELCR, the County requested that additional soil sampling be conducted to delineate the outer boundary of the shallow (6 inches to 3.5 feet below grade) soil contamination. The County also required that a groundwater investigation be conducted to determine whether or not groundwater has been impacted.

185 East Paularino Avenue, Suite B, Costa Mesa, California 92626
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Accounting Facsimile: (714) 444-9651

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At the request of the current proprietor/operator Jack Enlow, Converse inquired with the County if any general assumptions were made in their determination of the ELCR. The County indicated that building dimensions were assumed and that soil samples collected from a depth of 2 feet were used to estimate the concentration of PCE, which could exist at a depth of 0.5 feet. At his request, Converse conducted limited soil sampling to collect additional data so that the County could possibly re-evaluate the ELCR. Converse completed the additional shallow soil investigation and documented the specific building dimensions, which were presented in the *Additional Site Investigation Report,* dated February 7, 1997. The report was submitted to the County for review.

The County reviewed the report and issued a letter dated April 8, 1997 which reiterated their position, essentially requesting that the full extent of impacted soil be documented and that a groundwater investigation be initiated.

On February 3, 1998, Converse performed the following services. Conducted soil-sampling activities at five (5) locations (HA-13, HA-14, HA-15, HA-16, and HA-17) inside the building. Soil samples were collected at depths of 0.5 and 3.5 below ground surface (bgs) and field screened with an organic vapor analyzer. Boring HA-15 was advanced to groundwater (13 feet) to collect a grab sample of the groundwater. Two days later on February 5, 1998, Converse returned and performed the following services. Observed the drilling of monitoring well MW-1 located outside the rear door of the facility. Soil samples were collected at depths of 5, 10, 15, 20 and 22 feet bgs and field screened with an organic vapor analyzer. A 2-inch diameter PVC casing was installed to a total depth of 22.5 feet bgs. The well was developed on the same day. Then on March 20, 1998, Converse returned to purge the monitoring well by hand bailing approximately 35 gallons of water, and subsequently collected a groundwater sample for chemical analysis. For analytical results see Table 2: Soil /Water Analytical Results. The report was submitted to the County for review.

In a letter dated July 18, 1998 the County responded and requested additional site soil characterization be done and additional groundwater characterization be undertaken.

SCOPE OF SERVICES

The Converse scope of services generally consisted of the following tasks:

- Implemented a sampling and analysis program at six (6) locations within the building and adjacent business. Soil samples were field screened with an organic vapor analyzer (OVA).
- Installed three- (3) 3/4-inch diameter PVC groundwater monitoring well inside the dry cleaner facility.
- Developed, purged, and sampled the groundwater monitoring well.
- Submitted soil and groundwater samples to a California state certified laboratory for chemical analyses in accordance with EPA Method 8260 or 8021B for purgeable halocarbons.

OBJECTIVE

The objective of the work presented herein was to investigate the lateral and horizontal extent of PCE and TCE in the subsurface soil (2-10 feet) and if groundwater had been impacted.

Converse collected soil samples and installed three ¾-inch groundwater-monitoring wells within the dry cleaner facility to investigate if groundwater had been impacted. The well location were selected based the approved work plan and on drill rig access to an area near the source area.

FIELD INVESTIGATION WORK

On May 26, 1999 Converse conducted soil-sampling activities at six (6) locations (MW-2, MW-3, HA-18, HA-19, HA-20 and HA-21) inside the dry cleaners and the adjacent business to the north. Soil samples were collected at a depth of 2, 5, and 10 feet bgs and field screened with an organic vapor analyzer. MW-2 and MW-3 was constructed as groundwater monitoring wells immediately upon completion and the collection of soil samples.

Converse submitted eighteen (18) soil samples for chemical analysis the samples were sealed, labeled and stored in a cooler with ice under chain-of-custody procedures. The samples were then delivered to Associated laboratories, located in Orange, California (State certified laboratory) for chemical analysis in accordance with EPA Method 8021B Halogenated Volatile Organics (HVO).

Concurrently on May 26, 1999, three (3)-monitoring wells were installed at the site. Design and construction of the monitoring wells were generally based on local regulatory agency requirements and was permitted by the Orange County Health Care Agency; Water Quality Section (Receipt No. 01-07659) dated March 31, 1999. These wells were identified as MW-2, MW-3, and MW-4. For boring and well location see Figure 3; Investigation Locations.

The well screen interval was based on the depth to first water encountered (approximately 13 feet bgs) during installation. The total well depth was based on earlier data collected from previous monitoring of groundwater from well MW-1. Monitoring wells MW-2, MW-3, and MW-4 were installed with a single wall ¾-inch I.D. PVC well screen from a total depth of approximately 16 feet bgs. All three wells were screened from 10 to 16 feet bgs. Blank PVC casing was connected with flush-threads to the top of each well screen. The blank PVC casing extended to within 0.5 feet of the ground surface. The bottom of the each well screen was fitted with a PVC flush-threaded cap and the top of casing was fitted with a PVC slip cap.

The ¾-inch I.D. PVC well casing was installed utilizing 2-inch diameter direct push Geoprobe rods. The rods were hydraulically advanced to the total depth of each well. The well casings were placed through the rods and the rods removed. Filter sand was then poured into the annular space around the casing. The filter sand pack was brought up to a depth equal to approximately 1 feet above the top of each well screen. A bentonite seal was placed across the top of the filter pack sand from a depth of approximately 1.5 to 3.5 feet. A well box with a secured lid was then set in concrete over the wells, flush with the ground surface. To see specific well construction details and diagrams, see Figure 4; Typical Well Construction Diagram.

The monitoring wells were developed by Converse subsequent to the completion of well construction using a hand pump with Teflon tubing. Water was produce from the well until the indicator parameters stabilized. The indicator parameters include temperature, salinity, specific conductivity, and pH and water clarity.

On May 26, 1999, Converse measured the depths to groundwater, purged, and sampled the three onsite groundwater monitoring wells MW-2, MW-3 and MW-4, (Figure 3: Investigation Locations). The monitoring wells were purged using a hand pump with Teflon tubing. The wells were purged until the generally accepted casing 3 casing volumes were removed and until the water quality parameters (pH, temperature, and conductivity) had stabilized to within 10 percent between measurements.

Groundwater samples were collected from each monitoring well using well-dedicated Teflon bailer. The samples were placed into laboratory-prepared 40-mil glass containers, sealed, labeled and stored in a cooler with ice under chain-of-custody procedures. The samples were delivered to Associated laboratories, located in Orange, California (State certified laboratory) for chemical analysis by EPA method 8260.

The purged groundwater remains stored onsite in a label; DOT-approved 55-gallon drum pending transportation and disposal/recycling at a State of California licensed treatment, storage, and disposal facility.

Summary of Findings

The soil and groundwater analytical results from the sampling events conducted on May 26, 1999 at the site revealed the following:

At the borings located inside the adjacent business to the north, PCE (up to 6.75 ppm; HA-21) and TCE (up to 0.062 ppm; HA-20) was reported at a depth of 5 feet bgs. The borings located within dry cleaners, PCE (up to 2.68 ppm; MW-2) and TCE (up to 0.16 ppm; MW-2) was reported at 2 feet bgs. The concentrations of PCE and TCE generally decrease with depth at all but one boring HA-19. For analytical results see Table 3: Soil /Water Analytical Results.

Very low concentrations of PCE (up to 0.53 ppm; MW-4); TCE (up to 0.036 ppm MW-4) and 1,2-cis Dicholorethene (up to 0.0037 ppm; MW-4) were reported in all three groundwater-monitoring wells that were installed on May 26, 1999. For Analytical Reports see Appendix A. MW-1 was not sampled as part of this investigation.

Groundwater was measured at a depth of apprx.10.39 feet bgs. Due to the building configuration and limited access, the wells are in close proximity of each other and make triangulation for determining gradient more difficult. Groundwater was estimated to flow to the southeast at an approximate gradient of 0.026 feet per foot. See figure 5; Groundwater Contour Map.

No elevated organic vapor analyzer (OVA) readings (greater than 20 ppm), from the head space analysis of the soil samples, were recorded from the soil samples collected from borings MW-2, MW-3, HA-18, HA-19, HA-20 and HA-21. For OVA readings, see Boring Logs in Appendix B.

Generally, the subsurface soils encountered consisted of interbedded low permeability sandy silt/ silty sand from below the concrete floor to a depth of approximately 5-6 feet bgs. Below 6 feet, a silty sand was encountered to approximately 9 feet bgs. Between 9 and 13 feet bgs a silt clay was encountered. Between 13 and 16 feet bgs a very moist to wet sand (fine to medium grain, with silt) was encountered.

CONCLUSIONS

The results of the various soil sampling and analysis programs conducted at the site indicate that a release of PCE has occurred in the area of the existing dry cleaner equipment (sample locations HA-17 and HA-2).

Very low isolated releases may have also occurred at HA-13 (east of dry cleaning equipment) and HA-16 (inside boiler room).

The released PCE has migrated laterally, immediately under the concrete floor, and to a lesser extent vertically, through the low permeability soils. The concentrations of PCE generally decrease with distance and depth from the existing dry cleaner equipment.

The presence of TCE, cis-1,2-DCE, and 1,2-DCA is most likely related to the natural biological process, which causes degradation of the PCE. Each of these three compounds is a degradation by-product of PCE.

PCE and TCE were not detected in the groundwater sample collected from monitoring well MW-1. PCE and TCE were reported in the groundwater sample collected from hand auger location HA-15. This conflicting groundwater analytical data from the two samples analyzed can be explained by the following.

> The groundwater grab sample (HA-15) was collected after the hand auger equipment had been advanced through the PCE and TCE impacted soil (near the release area) and penetrated the water-bearing layer. Therefore the grab sample results are suspect due to sample collection methodology (the groundwater was likely impacted by the residual PCE and TCE in the overlying soils).

PCE and TCE were reported in the ground water samples collected from monitoring well MW-2, MW-3 and MW-4. Although very low concentration were reported.

Since the lateral and horizontal limits are not defined, further site characterization should be done. In addition with low concentration of PCE in the groundwater a quarterly monitoring program should be implemented to help characterize this site.

A report summarizing the investigation work should be sent to the Orange County Health Care Agency for review under the voluntary cleanup program.

Discussion

As stated in the California Health and Safety Code (Section 25359.4) releasing a hazardous substance is illegal and requires that releases be reported directly to the Department of Toxic Substances Control (DTSC). In 1994, the law was amended thereby requiring that only releases of a "reportable quantity" be reported to DTSC based on a the potential for the release to be a current or potential threat to the public health and safety or to the environment.

The determination for a reportable quantity is based on two definitions:

1. As presented in the Code of Federal Regulation (Title 40, Section 302.4). For PCE the reportable quantity is 100 pounds, and,

2. If not reportable under item 1 above, then any quantity that may pose a significant threat to public health and safety or to the environment would be reportable. DTSC may establish guidelines for determining which releases are reportable under this paragraph.

Definition 1 usually applies to a spill or other accidental release, however it would apply if quantities discovered in the soil obviously exceed the reportable quantity. Based on the available data this definition does not apply to the subject site.

In order to evaluate if definition 2 is applicable, Converse referenced the U.S. EPA, Region 9, Preliminary Remediation Goals (PRGs) "guidance table", dated May 1, 1998. The table lists various chemical compounds and their associated PRGs, which are used as a general risk-based tool for evaluating public exposure and providing general limits for cleaning up contaminated sites. Additional consideration is given to the potential threat to groundwater, which is a site-specific criterion that is not addressed in the PRGs. The PRGs and evaluation of the threat to groundwater should only be applied to sites where the limits of impacted soil have been determined.

For a specific compound, two separate PRGs are presented: one for industrial land use and another for residential land use. When considering PRGs as preliminary goals, residential concentrations should be used for maximum beneficial uses of a property. If site specific analytical data exceeds a PRG limit it is generally recommended that additional data be collected to evaluate the site-specific exposure pathways and exposure scenarios. It should be noted that a detected concentration exceeding a PRG does not mean that corrective action would be required. For PCE, the residential PRG is 4.7 ppm and the industrial PRG is 16 ppm.

Eight (8) soil samples collected from the site exceeded the residential PRG and two (2) soil samples exceed industrial PRG limits for PCE. There does appear to be evidence of minimal groundwater contamination, further exploration work would be necessary to document the vertical and horizontal limits of the PCE impacted soil, along with groundwater monitoring to characterize the impact.

Closure

This report has been prepared for the exclusive use of Donahue Schriber Reality Group, L.P. and Bank Boston NA in accordance with the terms and conditions under which these services were provided. Any reliance on this report by third parties shall be at third party's sole risk. Our services have been performed in accordance with applicable state and local ordinances, and generally accepted practices in the geosciences. No other warranty, either expressed or implied, is made.

Converse Consultants is not responsible or liable for any claims or damages associated with interpretation of available information provided by others. Site exploration identifies actual subsurface conditions only at those points where samples are taken, when they are taken. Data derived through sampling and analytical testing are extrapolated by geoscientists who then render an opinion about overall subsurface conditions. Actual conditions in the areas not sampled may differ from the predictions. This report should not be regarded as a guarantee that no further contamination, beyond that which was detected in our investigation, is present beneath the property. In the event that changes to the property occur, or additional, relevant information about the property is brought to our attention, the recommendations contained in this report may not be valid unless these changes and additional relevant information are reviewed and the recommendations of this report are modified in writing.

If you have questions or comments relative to the findings presented herein, please call me at (714) 444-9660.

Sincerely,
CONVERSE CONSULTANTS

William Ragsdale
Staff Environmental Scientist

Michael O. Cook, R.G. 4890
Project Geologist

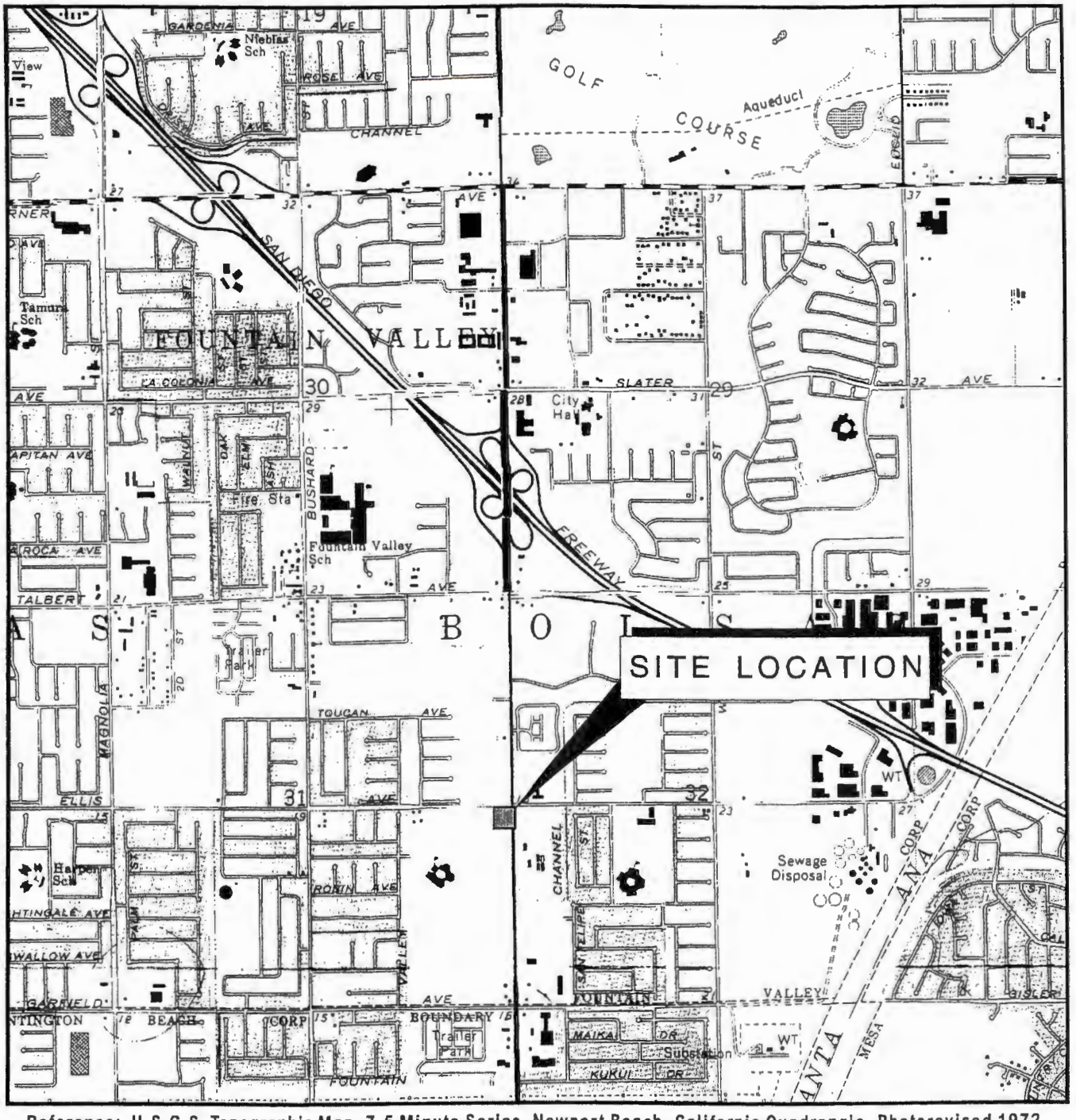
Dist: 2/Addressee
1/Mr. Luis Lodrigueza - Orange County Health Care Agency



CONVERSE CONSULTANTS

Encl: Figure 1 - Site Location Map
Figure 2 - Shopping Center Site Plan
Figure 3 - Investigation Locations
Figure 4 - Typical Well Construction Diagram
Figure 5 - Groundwater Contour Map
Table 1 - Soil\Water Analytical Results
Table 2 - Soil\Water Analytical Results
Table 3 - Soil\Water Analytical Results
Appendix A - Boring Logs
Appendix B - Analytical Report

FIGURES



Reference: U.S.G.S. Topographic Map, 7.5 Minute Series, Newport Beach, California Quadrangle, Photorevised 1972.

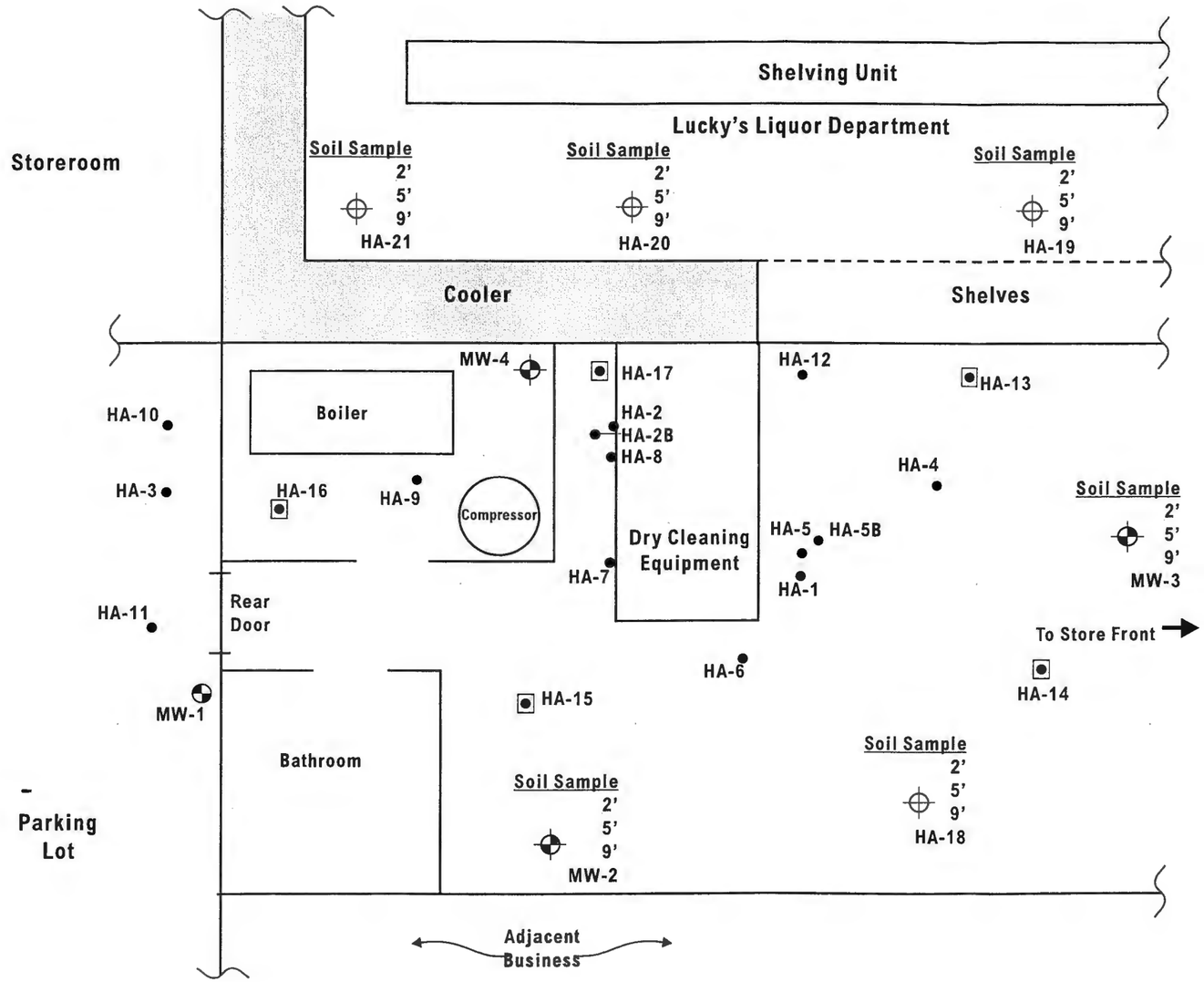
SITE LOCATION MAP

CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Project No.
96-42318-04

Figure No.
1

CONVERSE ENVIRONMENTAL WEST
Consulting Environmental Engineers and Geologists



EXPLANATION

- HA-12 ● Hand Auger Location (1996 & 1997)
- HA-17 ⊙ Hand Auger Location (1998)
- MW-1 ⊕ Monitoring Well Location
- MW-4 ⊕ Proposed Well Location
- HA-21 ⊕ Proposed Soil Sample Location

N

0 5 10

SCALE IN FEET

INVESTIGATION LOCATIONS

CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Converse Consultants — Geotechnical Engineering and Applied Sciences

Scale	AS SHOWN
Project No.	98-42589-16
Date	
Prepared By	KLF
Checked By	
Approved By	
Figure No.	3

TABLES

TABLE 1

Laboratory Results of Soil Samples

Crown Cleaners
18583 Brookhurst Street
Fountain Valley, California
(Converse Project No. 98-42-589-16)

EPA Laboratory Method 8010 - Purgeable Halocarbons
Results in Parts Per Million (ppm)

Sample Depth (feet)	Soil Boring HA-6		Soil Boring HA-7		Soil Boring HA-9		Soil Boring HA-10		Soil Boring HA-11		Soil Boring HA-12	
	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE
2-2.5'	0.76	0.13	1.1	0.13	1.2	0.64	0.07	0.01	0.04	ND	1.0	ND
			(2.5-3')**									
5-5.5'	0.29	0.03	0.48	0.03	0.05	0.03	0.01	ND	ND	ND	0.70	0.15
	(5.5-6')**											
7-7.5'	0.10	ND	0.07	ND	ND	ND	ND	ND	0.01	ND	ND	ND
									(7.5-8')**			
9-9.5'	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
					(8.5-9')**							
10-10.5'	--	--	--	--	--	--	--	--	--	--	--	--
Detection Limits	0.01		0.01		0.01		0.01		0.01		0.01	
Date Sampled	05/22/96		05/22/96		05/22/96		05/22/96		05/22/96		05/23/96	

LEGEND:
PCE = Tetrachloroethene
TCE = Trichloroethene
parts per million = milligrams per kilogram (mg/kg)
ND = Not Detected above laboratory method detection limits
NT = Collected soil sample not analyzed
-- = No Sample Collected
Note - All other target compounds were not detected. See laboratory analytical report.
* = Soil sample HA-5 collected at 2-2.5' also contained 0.46 ppm
o f cis-1,2-Dichloroethene and 0.2 ppm of Acetone
** = Soil sample collected at indicated depth
Note: HA-5 boring location is a continuation of boring HA-1
HA-8 boring location is a continuation of boring HA-2

TABLE 1

Laboratory Results of Soil Samples

Crown Cleaners
18583 Brookhurst Street
Fountain Valley, California
(Converse Project No. 98-42-589-16)

EPA Laboratory Method 8010 - Purgeable Halocarbons
Results in Parts Per Million (ppm)

Sample Depth (feet)	Soil Boring HA-1		Soil Boring HA-5		Soil Boring HA-2		Soil Boring HA-8		Soil Boring HA-3		Soil Boring HA-4	
	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE
2-2.5'	1.03	0.12	2.2*	0.14*	8.9	0.18	1.4	0.14	0.4	ND	1.1	0.18
5-5.5'	0.08	0.02	NT	NT	0.42	0.07	NT	NT	ND	ND	0.42	0.05
7-7.5'	--	--	0.064	ND	--	--	0.03	ND	--	--	0.027	ND
9-9.5'	--	--	0.27	ND	--	--	0.14	ND	--	--	0.057	ND
10-10.5'	--	--	--	--	--	--	--	--	--	--	0.024	ND
Detection Limits	0.01		0.01		0.01		0.01		0.01		0.01	
Date Sampled	05/07/96		05/22/96		05/07/96		05/22/96		05/07/96		05/22/96	

LEGEND:
PCE = Tetrachloroethene
TCE = Trichloroethene
parts per million = milligrams per kilogram (mg/kg)
ND = Not Detected above laboratory method detection limits
NT = Collected soil sample not analyzed
-- = No Sample Collected
Note - All other target compounds were not detected. See laboratory analytical report.
* = Soil sample HA-5 collected at 2-2.5' also contained 0.46 ppm of cis-1,2-Dichloroethene and 0.2 ppm of Acetone
** = Soil sample collected at indicated depth
Note: HA-5 boring location is a continuation of boring HA-1
HA-8 boring location is a continuation of boring HA-2

TABLE 2

SOIL/WATER ANALYTICAL RESULTS

CROWN CLEANERS

18583 Brookhurst Street

Fountain Valley, California

(Converse Project No. 98-42-589-16)

Boring I.D.	Soil Sample Depth (feet)	Date Sampled	Depth to Groundwater	EPA METHOD 8240 or 8260			
				PCE (ppm)	TCE (ppm)	cis-1,2-DCE (ppm)	1,2-DCA (ppm)
HA-13	0.5	2/3/98	NA	13	0.087	ND	0.015
	3.5			0.21	ND	ND	ND
HA-14	0.5	2/3/98	NA	1.1	ND	ND	0.022
	3.5			0.11	0.041	0.014	0.022
HA-15	0.5	2/3/98		47	0.099	0.0056	0.0097
	3.5			0.6	0.042	0.0084	0.0095
GROUNDWATER GRAB SAMPLE		2/3/98	13 feet bgs	0.76	0.037	ND	ND
HA-16	0.5	2/3/98	NA	5.6	0.032	ND	0.00812
	3.5			0.21	0.043	0.0069	0.0095
HA-17	1	2/3/98	NA	63	0.033	ND	0.014
	3.5			5.5	0.081	0.0055	0.0078
MW-1	10	2/5/98		0.13	0.068	ND	ND
GROUNDWATER WELL SAMPLE		3/20/98	8.40 feet below TOC	ND	ND	ND	ND
Detection Limits (ppm)				0.005	0.005	0.005	0.005

EXPLANATION

NA - Not applicable

ND - Not detected above method detection limits

TOC -Top of Casing (TOC is approximately 0.5 feet below ground surface)

bgs - below ground surface

ppm - SOIL mg/kg (parts per million) ; WATER mg/l (parts per million)

PCE - Tetrachloroethene

TCE - Trichloroethene

cis-1,2-DCE - cis-1,2-Dichloroethene

1,2-DCA - 1,2-Dichloroethane

Table 3
Soil/ Water Analytical Results

Crown Cleaners
18583 Brookhurst Street
Fountain Valley, California
Converse Project No.
98-42-589-16

Well ID	Date Measured/ Sampled	Well Casing/ Sample Depth	Depth To Groundwater TOC	EPA METHOD 8021B ppm		EPA METHOD 8260 PPM		
				PCE	TCE	PCE	TCE	1,2 cis Dicholor-ethene
MW2	5/26/99	GW	10.38	NA	NA	0.31	0.018	0.002
		2	NA	2.68	0.16	NA	NA	NA
		5	NA	5.44	0.016	NA	NA	NA
		10	NA	0.64	0.012	NA	NA	NA
MW3	5/26/99	GW	10.36	NA	NA	0.081	0.003	ND
		2	NA	0.017	ND	NA	NA	NA
		5	NA	0.024	0.0067	NA	NA	NA
		10	NA	ND	ND	NA	NA	NA
MW-4	5/26/99	GW	10.42	NA	NA	0.53	0.036	0.0037
HA-18	5/26/99	2	NA	0.094	0.020	NA	NA	NA
		5	NA	0.18	0.0076	NA	NA	NA
		10	NA	0.012	ND	NA	NA	NA
HA-19	5/26/99	2	NA	0.017	0.006	NA	NA	NA
		5	NA	0.125	0.0077	NA	NA	NA
		10	NA	0.30	0.0065	NA	NA	NA
HA-20	5/26/99	2	NA	0.46	0.062	NA	NA	NA
		5	NA	3.06	0.028	NA	NA	NA
		10	NA	0.41	0.024	NA	NA	NA
HA-21	5/26/99	2	NA	0.16	ND	NA	NA	NA
		5	NA	6.75	0.050	NA	NA	NA
		10	NA	2.82	0.024	NA	NA	NA
State of California Maximum Contaminant Level (MCL)					5	5	5	5

APPENDIX A

CONVERSE CONSULTANTS

LOG OF BORING NO. HA-18

Project Name: **CrownCleaners**
Project No.: **98-42-589-16**
Site Technician: **MC/WR**
Logs Checked by:
Total Depth of Boring (ft): **10**

Contractor: **Vironex**
Driller(s): **Todd**
Rig/Method: **Geo Probe**
Screen Interval:
Total Depth of Well Construction (ft):

Elevations (Relative MSL):
Grade Level (ft):
Top of Casing (ft):

Location: **18583 Brookhurst Street**
City: **Fountain Valley, California**
Coordinates (ft):

Record:	Date/Time
Drilling/Coring:	**5-26-99**
Well Construction:	
Well Development:	
Backfill	

Groundwater:	Depth (ft)	Date/Time
ATD	**N/A**	
SWL*	**N/A**	
SPL*	**N/A**	

* Prior to Initial Development

DRIVE SAMPLE	OVA READING (ppm)	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
■					SM	ML	**Silt;** dark grey, slightly moist
■		5			SM	ML	**Silt;** dark grey, slightly moist
■					SM	ML	**Silt;** grey, slightly moist
		10					End of boring at 10 feet No groundwater encountered
		15					
		20					
		25					

SUMMARY OF BORING

This log is part of the report prepared by Converse Consultants for the named project and should be read together with tbht report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may cbhnge at this location with the passage of time. The data presented is a simplification of actual conditions encountered.

DESCRIPTION

CONVERSE CONSULTANTS

LOG OF BORING NO. HA-19

Project Name: **CrownCleaners**
Project No.: **98-42-589-16**
Site Technician: **MC/WR**
Logs Checked by:
Total Depth of Boring (ft): **10**

Contractor: **Vironex**
Driller(s): **Todd**
Rig/Method: **Geo Probe**
Screen Interval:
Total Depth of Well Construction (ft):

Elevations (Relative MSL):
Grade Level (ft):
Top of Casing (ft):

Location: **18583 Brookhurst Street**
City: **Fountain Valley, California**
Coordinates (ft):

Record:	Date/Time
Drilling/Coring:	**5-26-99**
Well Construction:	
Well Development:	
Backfill	

Groundwater:	Depth (ft)	Date/Time
ATD	**N/A**	
SWL*	**N/A**	
SPL*	**N/A**	

* Prior to Initial Development

DRIVE SAMPLE	OVA READING (ppm)	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	
							This log is part of the report prepared by Converse Consultants for the named project and should be read together with tbht report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may cbhnge at this location with the passage of time. The data presented is a simplification of actual conditions encountered.
							6" Concrete
					SM	ML	**Silt;** dark grey, slightly moist
		5			SM	ML	**Silt;** dark grey, slightly moist
					SM	SP	**Sand;** grey, slightly moist
		10					End of boring at 10 feet No groundwater encountered
		15					
		20					
		25					

CONVERSE CONSULTANTS

LOG OF BORING NO. HA-20

Project Name: **CrownCleaners**
Project No.: **98-42-589-16**
Site Technician: **MC/WR**
Logs Checked by:
Total Depth of Boring (ft): **11**

Contractor: **Vironex**
Driller(s): **Todd**
Rig/Method: **Geo Probe**
Screen Interval:
Total Depth of Well Construction (ft):

Elevations (Relative MSL):
Grade Level (ft):
Top of Casing (ft):

Location: **18583 Brookhurst Street**
City: **Fountain Valley, California**
Coordinates (ft):

Record:	Date/Time
Drilling/Coring:	**5-26-99**
Well Construction:	
Well Development:	
Backfill	

Groundwater:	Depth (ft)	Date/Time
ATD	**N/A**	
SWL*	**N/A**	
SPL*	**N/A**	

* Prior to Initial Development

DRIVE SAMPLE	OVA READING (ppm)	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	
							This log is part of the report prepared by Converse Consultants for the named project and should be read together with tbht report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may cbhnge at this location with the passage of time. The data presented is a simplification of actual conditions encountered.
							6" Concrete
					SM	ML	**Silt;** dark grey, slightly moist
		5			SM	ML	**Silt;** dark grey, slightly moist
					M	SP	**Sand;** grey, very moist
		10			M	ML	**Silt;** black, very moist
		15					End of boring at 11 feet No groundwater encountered
		20					
		25					

CONVERSE CONSULTANTS

LOG OF BORING NO. HA-21

Project Name: **CrownCleaners**
Project No.: **98-42-589-16**
Site Technician: **MC/WR**
Logs Checked by:
Total Depth of Boring (ft): **11**

Contractor: **Vironex**
Driller(s): **Todd**
Rig/Method: **Geo Probe**
Screen Interval:
Total Depth of Well Construction (ft):

Elevations (Relative MSL):
Grade Level (ft):
Top of Casing (ft):

Location: **18583 Brookhurst Street**
City: **Fountain Valley, California**
Coordinates (ft):

Record:	Date/Time
Drilling/Coring:	**5-26-99**
Well Construction:	
Well Development:	
Backfill	

Groundwater:	Depth (ft)	Date/Time
ATD	**N/A**	
SWL*	**N/A**	
SPL*	**N/A**	

* Prior to Initial Development

DRIVE SAMPLE	OVA READING (ppm)	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	
							This log is part of the report prepared by Converse Consultants for the named project and should be read together with tbht report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may cbhnge at this location with the passage of time. The data presented is a simplification of actual conditions encountered.
							6" Concrete
					SM	ML	**Silt**; dark grey, slightly moist
		5			SM	ML	**Silt**; dark grey, slightly moist
					SM	SP	**Silty Sand**; fine to medium grained, grey, slightly moist
		10			M	ML	**Silt**; black, very moist, slight odort
		15					End of boring at 11 feet No groundwater encountered
		20					
		25					

CONVERSE CONSULTANTS

LOG OF BORING NO. MW-2

Project Name: **CrownCleaners**	Contractor: **Vironex**
Project No.: **98-42-589-16**	Driller(s): **Todd**
Site Technician: **MC/WR**	Rig/Method: **Geo Probe**
Logs Checked by:	Screen Interval:
Total Depth of Boring (ft): **18**	Total Depth of Well Construction (ft):
Elevations (Relative MSL):	Location: **18583 Brookhurst Street**
Grade Level (ft):	City: **Fountain Valley, California**
Top of Casing (ft):	Coordinates (ft):

Record:	Date/Time
Drilling/Coring:	**5-26-99**
Well Construction:	**5-26-99**
Well Development:	**5-26-99**
Backfill	**Sand/Bentonite**

Groundwater: Depth (ft) Date/Time

▼ ATD

▽ SWL*

P SPL*

* Prior to Initial Development

DRIVE SAMPLE	OVA READING (ppm)	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	
							This log is part of the report prepared by Converse Consultants for the named project and should be read together with tbht report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may cbhnge at this location with the passage of time. The data presented is a simplification of actual conditions encountered.
							6" Concrete
■					SM	ML	**Silt;** dark grey, slightly moist
■		5			SM	ML	**Silt;** dark grey, slightly moist
■					SM	ML	**Silt;** dark grey, slightly moist
		10	▽				
		15					
		20					End of boring at 18 feet Groundwater encountered at 10.38 feet
		25					

CONVERSE CONSULTANTS

LOG OF BORING NO. MW-3

Project Name: **CrownCleaners**	Contractor: **Vironex**
Project No.: **98-42-589-16**	Driller(s): **Todd**
Site Technician: **MC/WR**	Rig/Method: **Geo Probe**
Logs Checked by:	Screen Interval: **6-16'**
Total Depth of Boring (ft): **16**	Total Depth of Well Construction (ft): **16 BGS**
Elevations (Relative MSL):	Location: **18583 Brookhurst Street**
Grade Level (ft):	City: **Fountain Valley, California**
Top of Casing (ft): **3' 1/16" BGS**	Coordinates (ft):

Record:	Date/Time	Groundwater:	Depth (ft)	Date/Time
Drilling/Coring:	**5-26-99**	ATD		
Well Construction:	**5-26-99**	SWL*		
Well Development:	**5-26-99**	SPL*		
Backfill	**Sand/Bentonite**	* Prior to Initial Development		

DRIVE SAMPLE	OVA READING (ppm)	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	
							This log is part of the report prepared by Converse Consultants for the named project and should be read together with tbht report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may cbhnge at this location with the passage of time. The data presented is a simplification of actual conditions encountered.
		0					6" Concrete
					SM	ML	**Silt;** dark grey, slightly moist
		5			SM	ML	**Silt;** dark grey, slightly moist
					SM	SP	**Silty Sand;** fine grained, dark grey, slightly moist
		10	▽				
		15					
		20					End of boring at 16 feet Groundwater encountered at 10.36 feet
		25					

CONVERSE CONSULTANTS

LOG OF BORING NO. MW-4

Project Name: **CrownCleaners**	Contractor: **Vironex**
Project No.: **98-42-589-16**	Driller(s): **Todd**
Site Technician: **MC/WR**	Rig/Method: **Geo Probe**
Logs Checked by:	Screen Interval:
Total Depth of Boring (ft): **16**	Total Depth of Well Construction (ft):
Elevations (Relative MSL):	Location: **18583 Brookhurst Street**
Grade Level (ft):	City: **Fountain Valley, California**
Top of Casing (ft):	Coordinates (ft):

Record:	Date/Time
Drilling/Coring:	**5-26-99**
Well Construction:	**5-26-99**
Well Development:	**5-26-99**
Backfill	**Sand/Bentonite**

Groundwater: Depth (ft) Date/Time

▼ ATD

▽ SWL*

▽ SPL*

* Prior to Initial Development

DRIVE SAMPLE	OVA READING (ppm)	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	
					SM	ML	**Silt**; grey, slightly moist
		5			SM	ML	**Silt**; grey, slightly moist
					SM	SP	**Silty Sand**; dark grey, very moist
		10	▽				
					SM	SP	**Silty Sand**; dark grey, wet
		15					
		20					End of boring at 16 feet Groundwater encountered at 10.42 feet
		25					

This log is part of the report prepared by Converse Consultants for the named project and should be read together with tbht report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may cbhnge at this location with the passage of time. The data presented is a simplification of actual conditions encountered.

APPENDIX B

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Converse Consultants (4708)
ATTN: William Ragsdale
185 E. Paularino Avenue
Suite B
Costa Mesa, CA 92626

RECEIVED
JUN 12 1999

LAB REQUEST 37781
REPORTED 6/ 9/99
RECEIVED 5/26/99

PROJECT Crown Cleaners
98-42589-16

SUBMITTER Client

COMMENTS "J" denotes value between MDL and DLR.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
124182	MW2-2
124183	MW2-5
124184	MW2-10
124185	MW3-2
124186	MW3-5
124187	MW3-10
124188	HA18-2
124189	HA18-5
124190	HA18-10
124191	HA19-2
124192	HA19-5

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

CLIENT Converse Consultants (4708)
ATTN: William Ragsdale
185 E. Paularino Avenue
Suite B
Costa Mesa, CA 92626

LAB REQUEST 37781
REPORTED 6/ 9/99
RECEIVED 5/26/99

PROJECT Crown Cleaners
98-42589-16

SUBMITTER Client

COMMENTS "J" denotes value between MDL and DLR.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
124193	HA19-10
124194	HA20-2
124195	HA20-5
124196	HA20-10
124197	HA21-2
124198	HA21-5
124199	HA21-10
124200	MW2
124201	MW3
124202	MW4
124260	Trip Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 124182
Matrix: SOLID
Date Sampled: 5/26/99
Time Sampled: 09:41
Sampled By:

Client: Converse Consultants
Client Sample ID: MW2-2
Sample Description: Monitoring Well 2 Depth 2

Analyte	Result	DF	DLR	Units	Date/Analyst	
021B Halogenated Volatile Organics (HVO)						
1,1,1-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2,2-Tetrachloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethane	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethene	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,2-Dibromoethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
1,2-Dichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichloropropane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,3-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
1,4-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
2-Chloroethylvinyl ether	ND	1	10.0	ug/Kg	6/ 7/99	DC
Bromoform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Bromomethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Carbon tetrachloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Chloromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Dibromochloromethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorobromomethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorodifluoromethane	ND	1	15.0	ug/Kg	6/ 7/99	DC
Methylene Chloride	ND	1	5.0	ug/Kg	6/ 7/99	DC
Tetrachloroethene	2,680	4	20.0	ug/Kg	6/ 7/99	DC
Trichloroethene	160	1	5.0	ug/Kg	6/ 7/99	DC
Trichlorofluoromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Vinyl chloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,3-Dichloropropene	ND	1	15.0	ug/Kg	6/ 7/99	DC
trans-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
trans-1,3-Dichloropropene	ND	1	10.0	ug/Kg	6/ 7/99	DC

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 124183
Matrix: SOLID
Date Sampled: 5/26/99
Time Sampled: 09:48
Sampled By:

Client: Converse Consultants
Client Sample ID: MW2-5
Sample Description: Monitoring Well 2 Depth 5

021B Halogenated Volatile Organics (HVO)

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2,2-Tetrachloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethane	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethene	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,2-Dibromoethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
1,2-Dichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichloropropane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,3-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
1,4-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
2-Chloroethylvinyl ether	ND	1	10.0	ug/Kg	6/ 7/99	DC
Bromoform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Bromomethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Carbon tetrachloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Chloromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Dibromochloromethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorobromomethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorodifluoromethane	ND	1	15.0	ug/Kg	6/ 7/99	DC
Methylene Chloride	ND	1	5.0	ug/Kg	6/ 7/99	DC
Tetrachloroethene	5,440	8	40.0	ug/Kg	6/ 7/99	DC
Trichloroethene	16	1	5.0	ug/Kg	6/ 7/99	DC
Trichlorofluoromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Vinyl chloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,3-Dichloropropene	ND	1	15.0	ug/Kg	6/ 7/99	DC
trans-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
trans-1,3-Dichloropropene	ND	1	10.0	ug/Kg	6/ 7/99	DC

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 124184
Matrix: SOLID
Date Sampled: 5/26/99
Time Sampled: 10:02
Sampled By:

Client: Converse Consultants
Client Sample ID: MW2-10
Sample Description: Monitoring Well 2 Depth 9

)21B Halogenated Volatile Organics (HVO)

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1-Trichloroethane	ND	1	5.0	ug/Kg	6/ 9/99	DC
1,1,2,2-Tetrachloroethane	ND	1	5.0	ug/Kg	6/ 9/99	DC
1,1,2-Trichloroethane	ND	1	5.0	ug/Kg	6/ 9/99	DC
1,1-Dichloroethane	ND	1	8.0	ug/Kg	6/ 9/99	DC
1,1-Dichloroethene	ND	1	8.0	ug/Kg	6/ 9/99	DC
1,2-Dibromoethane	ND	1	5.0	ug/Kg	6/ 9/99	DC
1,2-Dichlorobenzene	ND	1	10.0	ug/Kg	6/ 9/99	DC
1,2-Dichloroethane	ND	1	5.0	ug/Kg	6/ 9/99	DC
1,2-Dichloropropane	ND	1	5.0	ug/Kg	6/ 9/99	DC
1,3-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 9/99	DC
1,4-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 9/99	DC
2-Chloroethylvinyl ether	ND	1	10.0	ug/Kg	6/ 9/99	DC
Bromoform	ND	1	5.0	ug/Kg	6/ 9/99	DC
Bromomethane	ND	1	10.0	ug/Kg	6/ 9/99	DC
Carbon tetrachloride	ND	1	10.0	ug/Kg	6/ 9/99	DC
Chlorobenzene	ND	1	10.0	ug/Kg	6/ 9/99	DC
Chloroethane	ND	1	10.0	ug/Kg	6/ 9/99	DC
Chloroform	ND	1	5.0	ug/Kg	6/ 9/99	DC
Chloromethane	ND	1	10.0	ug/Kg	6/ 9/99	DC
Dibromochloromethane	ND	1	5.0	ug/Kg	6/ 9/99	DC
Dichlorobromomethane	ND	1	5.0	ug/Kg	6/ 9/99	DC
Dichlorodifluoromethane	ND	1	15.0	ug/Kg	6/ 9/99	DC
Methylene Chloride	ND	1	5.0	ug/Kg	6/ 9/99	DC
Tetrachloroethene	640	1	5.0	ug/Kg	6/ 9/99	DC
Trichloroethene	12	1	5.0	ug/Kg	6/ 9/99	DC
Trichlorofluoromethane	ND	1	10.0	ug/Kg	6/ 9/99	DC
Vinyl chloride	ND	1	10.0	ug/Kg	6/ 9/99	DC
cis-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 9/99	DC
cis-1,3-Dichloropropene	ND	1	15.0	ug/Kg	6/ 9/99	DC
trans-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 9/99	DC
trans-1,3-Dichloropropene	ND	1	10.0	ug/Kg	6/ 9/99	DC

⁻LR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

rder #: 124185
Matrix: SOLID
Date Sampled: 5/26/99
me Sampled: 10:52
Sampled By:

Client: Converse Consultants
Client Sample ID: MW3-2
Sample Description: Monitoring Well 3 Depth 2

21B Halogenated Volatile Organics (HVO)

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2,2-Tetrachloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethane	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethene	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,2-Dibromoethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
1,2-Dichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichloropropane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,3-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
1,4-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
2-Chloroethylvinyl ether	ND	1	10.0	ug/Kg	6/ 7/99	DC
Bromoform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Bromomethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Carbon tetrachloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Chloromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Dibromochloromethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorobromomethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorodifluoromethane	ND	1	15.0	ug/Kg	6/ 7/99	DC
Methylene Chloride	ND	1	5.0	ug/Kg	6/ 7/99	DC
Tetrachloroethene	17	1	5.0	ug/Kg	6/ 7/99	DC
Trichloroethene	ND	1	5.0	ug/Kg	6/ 7/99	DC
Trichlorofluoromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Vinyl chloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,3-Dichloropropene	ND	1	15.0	ug/Kg	6/ 7/99	DC
trans-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
trans-1,3-Dichloropropene	ND	1	10.0	ug/Kg	6/ 7/99	DC

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

)rder #: 124186
Matrix: SOLID
"ate Sampled: 5/26/99
ime Sampled: 10:58
Sampled By:

Client: Converse Consultants
Client Sample ID: MW3-5
Sample Description: Monitoring Well 3 Depth 5

21B Halogenated Volatile Organics (HVO)

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2,2-Tetrachloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethane	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethene	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,2-Dibromoethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
1,2-Dichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichloropropane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,3-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
1,4-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
2-Chloroethylvinyl ether	ND	1	10.0	ug/Kg	6/ 7/99	DC
Bromoform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Bromomethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Carbon tetrachloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Chloromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Dibromochloromethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorobromomethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorodifluoromethane	ND	1	15.0	ug/Kg	6/ 7/99	DC
Methylene Chloride	ND	1	5.0	ug/Kg	6/ 7/99	DC
Tetrachloroethene	24	1	5.0	ug/Kg	6/ 7/99	DC
Trichloroethene	6.7	1	5.0	ug/Kg	6/ 7/99	DC
Trichlorofluoromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Vinyl chloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,3-Dichloropropene	ND	1	15.0	ug/Kg	6/ 7/99	DC
trans-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
trans-1,3-Dichloropropene	ND	1	10.0	ug/Kg	6/ 7/99	DC

LR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

rder #: 124187
Matrix: SOLID
Date Sampled: 5/26/99
me Sampled: 11:03
Sampled By:

Client: Converse Consultants
Client Sample ID: MW3-10
Sample Description: Monitoring Well 3 Depth 9

21B Halogenated Volatile Organics (HVO)

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2,2-Tetrachloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethane	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethene	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,2-Dibromoethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
1,2-Dichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichloropropane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,3-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
1,4-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
2-Chloroethylvinyl ether	ND	1	10.0	ug/Kg	6/ 7/99	DC
Bromoform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Bromomethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Carbon tetrachloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Chloromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Dibromochloromethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorobromomethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorodifluoromethane	ND	1	15.0	ug/Kg	6/ 7/99	DC
Methylene Chloride	ND	1	5.0	ug/Kg	6/ 7/99	DC
Tetrachloroethene	ND	1	5.0	ug/Kg	6/ 7/99	DC
Trichloroethene	ND	1	5.0	ug/Kg	6/ 7/99	DC
Trichlorofluoromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Vinyl chloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,3-Dichloropropene	ND	1	15.0	ug/Kg	6/ 7/99	DC
trans-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
trans-1,3-Dichloropropene	ND	1	10.0	ug/Kg	6/ 7/99	DC

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

)rder #: 124188
Matrix: SOLID
)ate Sampled: 5/26/99
'ime Sampled: 12:09
Sampled By:

Client: Converse Consultants
Client Sample ID: HA18-2
Sample Description: Drycleaner Depth 2

Analyte	Result	DF	DLR	Units	Date/Analyst	
)21B Halogenated Volatile Organics (HVO)						
1,1,1-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2,2-Tetrachloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethane	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethene	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,2-Dibromoethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
1,2-Dichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichloropropane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,3-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
1,4-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
2-Chloroethylvinyl ether	ND	1	10.0	ug/Kg	6/ 7/99	DC
Bromoform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Bromomethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Carbon tetrachloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Chloromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Dibromochloromethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorobromomethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorodifluoromethane	ND	1	15.0	ug/Kg	6/ 7/99	DC
Methylene Chloride	ND	1	5.0	ug/Kg	6/ 7/99	DC
Tetrachloroethene	94	1	5.0	ug/Kg	6/ 7/99	DC
Trichloroethene	20	1	5.0	ug/Kg	6/ 7/99	DC
Trichlorofluoromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Vinyl chloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,3-Dichloropropene	ND	1	15.0	ug/Kg	6/ 7/99	DC
trans-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
trans-1,3-Dichloropropene	ND	1	10.0	ug/Kg	6/ 7/99	DC

)LR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 124189
Matrix: SOLID
Date Sampled: 5/26/99
Time Sampled: 12:15
Sampled By:

Client: Converse Consultants
Client Sample ID: HA18-5
Sample Description: Drycleaner Depth 5

8021B Halogenated Volatile Organics (HVO)

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2,2-Tetrachloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethane	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethene	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,2-Dibromoethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
1,2-Dichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichloropropane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,3-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
1,4-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
2-Chloroethylvinyl ether	ND	1	10.0	ug/Kg	6/ 7/99	DC
Bromoform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Bromomethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Carbon tetrachloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Chloromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Dibromochloromethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorobromomethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorodifluoromethane	ND	1	15.0	ug/Kg	6/ 7/99	DC
Methylene Chloride	ND	1	5.0	ug/Kg	6/ 7/99	DC
Tetrachloroethene	180	1	5.0	ug/Kg	6/ 7/99	DC
Trichloroethene	7.6	1	5.0	ug/Kg	6/ 7/99	DC
Trichlorofluoromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Vinyl chloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,3-Dichloropropene	ND	1	15.0	ug/Kg	6/ 7/99	DC
trans-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
trans-1,3-Dichloropropene	ND	1	10.0	ug/Kg	6/ 7/99	DC

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 124190
Matrix: SOLID
Date Sampled: 5/26/99
Time Sampled: 12:23
Sampled By:

Client: Converse Consultants
Client Sample ID: HA18-10
Sample Description: Drycleaner Depth 9

021B Halogenated Volatile Organics (HVO)

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2,2-Tetrachloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethane	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethene	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,2-Dibromoethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
1,2-Dichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichloropropane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,3-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
1,4-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
2-Chloroethylvinyl ether	ND	1	10.0	ug/Kg	6/ 7/99	DC
Bromoform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Bromomethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Carbon tetrachloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Chloromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Dibromochloromethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorobromomethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorodifluoromethane	ND	1	15.0	ug/Kg	6/ 7/99	DC
Methylene Chloride	ND	1	5.0	ug/Kg	6/ 7/99	DC
Tetrachloroethene	12	1	5.0	ug/Kg	6/ 7/99	DC
Trichloroethene	ND	1	5.0	ug/Kg	6/ 7/99	DC
Trichlorofluoromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Vinyl chloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,3-Dichloropropene	ND	1	15.0	ug/Kg	6/ 7/99	DC
trans-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
trans-1,3-Dichloropropene	ND	1	10.0	ug/Kg	6/ 7/99	DC

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 124191
Matrix: SOLID
Date Sampled: 5/26/99
Time Sampled: 16:48
Sampled By:

Client: Converse Consultants
Client Sample ID: HA19-2
Sample Description: Lucky's Depth 2

8021B Halogenated Volatile Organics (HVO)

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2,2-Tetrachloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethane	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethene	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,2-Dibromoethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
1,2-Dichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichloropropane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,3-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
1,4-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
2-Chloroethylvinyl ether	ND	1	10.0	ug/Kg	6/ 7/99	DC
Bromoform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Bromomethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Carbon tetrachloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Chloromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Dibromochloromethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorobromomethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorodifluoromethane	ND	1	15.0	ug/Kg	6/ 7/99	DC
Methylene Chloride	ND	1	5.0	ug/Kg	6/ 7/99	DC
Tetrachloroethene	17	1	5.0	ug/Kg	6/ 7/99	DC
Trichloroethene	6.0	1	5.0	ug/Kg	6/ 7/99	DC
Trichlorofluoromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Vinyl chloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,3-Dichloropropene	ND	1	15.0	ug/Kg	6/ 7/99	DC
trans-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
trans-1,3-Dichloropropene	ND	1	10.0	ug/Kg	6/ 7/99	DC

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 124192
Matrix: SOLID
Date Sampled: 5/26/99
Time Sampled: 16:52
Sampled By:

Client: Converse Consultants
Client Sample ID: HA19-5
Sample Description: Lucky's Depth 5

21B Halogenated Volatile Organics (HVO)

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2,2-Tetrachloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethane	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethene	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,2-Dibromoethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
1,2-Dichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichloropropane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,3-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
1,4-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
2-Chloroethylvinyl ether	ND	1	10.0	ug/Kg	6/ 7/99	DC
Bromoform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Bromomethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Carbon tetrachloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Chloromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Dibromochloromethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorobromomethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorodifluoromethane	ND	1	15.0	ug/Kg	6/ 7/99	DC
Methylene Chloride	ND	1	5.0	ug/Kg	6/ 7/99	DC
Tetrachloroethene	125	1	5.0	ug/Kg	6/ 7/99	DC
Trichloroethene	7.7	1	5.0	ug/Kg	6/ 7/99	DC
Trichlorofluoromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Vinyl chloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,3-Dichloropropene	ND	1	15.0	ug/Kg	6/ 7/99	DC
trans-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
trans-1,3-Dichloropropene	ND	1	10.0	ug/Kg	6/ 7/99	DC

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 124193
Matrix: SOLID
Date Sampled: 5/26/99
Time Sampled: 16:57
Sampled By:

Client: Converse Consultants
Client Sample ID: HA19-10
Sample Description: Lucky's Depth 10

8021B Halogenated Volatile Organics (HVO)

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2,2-Tetrachloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1,2-Trichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethane	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,1-Dichloroethene	ND	1	8.0	ug/Kg	6/ 7/99	DC
1,2-Dibromoethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
1,2-Dichloroethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,2-Dichloropropane	ND	1	5.0	ug/Kg	6/ 7/99	DC
1,3-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
1,4-Dichlorobenzene	ND	1	15.0	ug/Kg	6/ 7/99	DC
2-Chloroethylvinyl ether	ND	1	10.0	ug/Kg	6/ 7/99	DC
Bromoform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Bromomethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Carbon tetrachloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chlorobenzene	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Chloroform	ND	1	5.0	ug/Kg	6/ 7/99	DC
Chloromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Dibromochloromethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorobromomethane	ND	1	5.0	ug/Kg	6/ 7/99	DC
Dichlorodifluoromethane	ND	1	15.0	ug/Kg	6/ 7/99	DC
Methylene Chloride	ND	1	5.0	ug/Kg	6/ 7/99	DC
Tetrachloroethene	300	1	5.0	ug/Kg	6/ 7/99	DC
Trichloroethene	6.5	1	5.0	ug/Kg	6/ 7/99	DC
Trichlorofluoromethane	ND	1	10.0	ug/Kg	6/ 7/99	DC
Vinyl chloride	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
cis-1,3-Dichloropropene	ND	1	15.0	ug/Kg	6/ 7/99	DC
trans-1,2-Dichloroethene	ND	1	10.0	ug/Kg	6/ 7/99	DC
trans-1,3-Dichloropropene	ND	1	10.0	ug/Kg	6/ 7/99	DC

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 124201
Matrix: WATER
Date Sampled: 5/26/99
Time Sampled: 13:55
Sampled By:

Client: Converse Consultants
Client Sample ID: MW3
Sample Description: Monitoring Well 3

Analyte	Result	DF	DLR	Units	Date/Analyst	
60B Volatile Organic Compounds						
Tetrachloroethene	81	1	5	ug/L	6/ 6/99	AHT
Toluene	ND	1	5	ug/L	6/ 6/99	AHT
Trichloroethene	3.0 J	1	5	ug/L	6/ 6/99	AHT
Trichlorofluoromethane	ND	1	5	ug/L	6/ 6/99	AHT
Vinyl acetate	ND	1	50	ug/L	6/ 6/99	AHT
Vinyl chloride	ND	1	5	ug/L	6/ 6/99	AHT
Xylenes, total	ND	1	5	ug/L	6/ 6/99	AHT
cis-1,2-Dichloroethene	ND	1	5	ug/L	6/ 6/99	AHT
cis-1,3-Dichloropropene	ND	1	5	ug/L	6/ 6/99	AHT
cis-1,4-Dichloro-2-butene	ND	1	20	ug/L	6/ 6/99	AHT
m and p-Xylene	ND	1	5	ug/L	6/ 6/99	AHT
n-Butylbenzene	ND	1	5	ug/L	6/ 6/99	AHT
n-Propylbenzene	ND	1	5	ug/L	6/ 6/99	AHT
o-Xylene	ND	1	5	ug/L	6/ 6/99	AHT
p-Isopropyltoluene	ND	1	5	ug/L	6/ 6/99	AHT
sec-Butylbenzene	ND	1	5	ug/L	6/ 6/99	AHT
tert-Butylbenzene	ND	1	5	ug/L	6/ 6/99	AHT
trans-1,2-Dichloroethene	ND	1	5	ug/L	6/ 6/99	AHT
trans-1,3-Dichloropropene	ND	1	5	ug/L	6/ 6/99	AHT
trans-1,4-Dichloro-2-butene	ND	1	20	ug/L	6/ 6/99	AHT

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 124202
Matrix: WATER
Date Sampled: 5/26/99
Time Sampled: 13:38
Sampled By:

Client: Converse Consultants
Client Sample ID: MW4
Sample Description: Monitoring Well 4

260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1,2-Tetrachloroethane	ND	1	5	ug/L	6/ 6/99	AHT
1,1,1-Trichloroethane	ND	1	5	ug/L	6/ 6/99	AHT
1,1,2,2-Tetrachloroethane	ND	1	5	ug/L	6/ 6/99	AHT
1,1,2-Trichloroethane	ND	1	5	ug/L	6/ 6/99	AHT
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/L	6/ 6/99	AHT
1,1-Dichloroethane	ND	1	5	ug/L	6/ 6/99	AHT
1,1-Dichloroethene	ND	1	5	ug/L	6/ 6/99	AHT
1,1-Dichloropropene	ND	1	5	ug/L	6/ 6/99	AHT
1,2,3-Trichlorobenzene	ND	1	5	ug/L	6/ 6/99	AHT
1,2,3-Trichloropropane	ND	1	5	ug/L	6/ 6/99	AHT
1,2,4-Trichlorobenzene	ND	1	5	ug/L	6/ 6/99	AHT
1,2,4-Trimethylbenzene	ND	1	5	ug/L	6/ 6/99	AHT
1,2-Dibromo-3-chloropropane	ND	1	5	ug/L	6/ 6/99	AHT
1,2-Dibromoethane	ND	1	5	ug/L	6/ 6/99	AHT
1,2-Dichlorobenzene	ND	1	5	ug/L	6/ 6/99	AHT
1,2-Dichloroethane	ND	1	5	ug/L	6/ 6/99	AHT
1,2-Dichloropropane	ND	1	5	ug/L	6/ 6/99	AHT
1,3,5-Trimethylbenzene	ND	1	5	ug/L	6/ 6/99	AHT
1,3-Dichlorobenzene	ND	1	5	ug/L	6/ 6/99	AHT
1,3-Dichloropropane	ND	1	5	ug/L	6/ 6/99	AHT
1,4-Dichlorobenzene	ND	1	5	ug/L	6/ 6/99	AHT
1,4-Dioxane	ND	1	57	ug/L	6/ 6/99	AHT
1-Chlorohexane	ND	1	5	ug/L	6/ 6/99	AHT
2,2-Dichloropropane	ND	1	5	ug/L	6/ 6/99	AHT
2-Butanone (MEK)	ND	1	100	ug/L	6/ 6/99	AHT
2-Chloroethyl vinyl ether	ND	1	5	ug/L	6/ 6/99	AHT
2-Chlorotoluene	ND	1	5	ug/L	6/ 6/99	AHT
2-Hexanone	ND	1	20	ug/L	6/ 6/99	AHT
4-Chlorotoluene	ND	1	5	ug/L	6/ 6/99	AHT
4-Methyl -2- Pentanone	ND	1	10	ug/L	6/ 6/99	AHT
Acetone	ND	1	100	ug/L	6/ 6/99	AHT
Acetonitrile	ND	1	50	ug/L	6/ 6/99	AHT

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 124202
Matrix: WATER
Date Sampled: 5/26/99
Time Sampled: 13:38
Sampled By:

Client: Converse Consultants
Client Sample ID: MW4
Sample Description: Monitoring Well 4

Analyte	Result	DF	DLR	Units	Date/Analyst
60B Volatile Organic Compounds					
Acrolein	ND	1	200	ug/L	6/ 6/99 AHT
Acrylonitrile	ND	1	10	ug/L	6/ 6/99 AHT
Allyl chloride	ND	1	5	ug/L	6/ 6/99 AHT
Benzene	ND	1	5	ug/L	6/ 6/99 AHT
Benzyl chloride	ND	1	5	ug/L	6/ 6/99 AHT
Bromobenzene	ND	1	5	ug/L	6/ 6/99 AHT
Bromochloromethane	ND	1	5	ug/L	6/ 6/99 AHT
Bromodichloromethane	ND	1	5	ug/L	6/ 6/99 AHT
Bromoform	ND	1	5	ug/L	6/ 6/99 AHT
Bromomethane	ND	1	5	ug/L	6/ 6/99 AHT
Carbon Disulfide	ND	1	5	ug/L	6/ 6/99 AHT
Carbon tetrachloride	ND	1	5	ug/L	6/ 6/99 AHT
Chlorobenzene	ND	1	5	ug/L	6/ 6/99 AHT
Chloroethane	ND	1	5	ug/L	6/ 6/99 AHT
Chloroform	ND	1	5	ug/L	6/ 6/99 AHT
Chloromethane	ND	1	5	ug/L	6/ 6/99 AHT
Dibromochloromethane	ND	1	5	ug/L	6/ 6/99 AHT
Dibromomethane	ND	1	5	ug/L	6/ 6/99 AHT
Dichlorodifluoromethane	ND	1	5	ug/L	6/ 6/99 AHT
Ethyl benzene	ND	1	5	ug/L	6/ 6/99 AHT
Ethyl methacrylate	ND	1	50	ug/L	6/ 6/99 AHT
Hexachlorobutadiene	ND	1	5	ug/L	6/ 6/99 AHT
Iodomethane	ND	1	5	ug/L	6/ 6/99 AHT
Isopropylbenzene (Cumene)	ND	1	5	ug/L	6/ 6/99 AHT
Methacrylonitrile	ND	1	35	ug/L	6/ 6/99 AHT
Methyl methacrylate	ND	1	5	ug/L	6/ 6/99 AHT
Methyl-tert-butylether (MTBE)	ND	1	20	ug/L	6/ 6/99 AHT
Methylene chloride	ND	1	5	ug/L	6/ 6/99 AHT
Naphthalene	ND	1	5	ug/L	6/ 6/99 AHT
Pentachloroethane	ND	1	5	ug/L	6/ 6/99 AHT
Propionitrile	ND	1	100	ug/L	6/ 6/99 AHT
Styrene	ND	1	5	ug/L	6/ 6/99 AHT

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 124202
Matrix: WATER
Date Sampled: 5/26/99
Time Sampled: 13:38
Sampled By:

Client: Converse Consultants
Client Sample ID: MW4
Sample Description: Monitoring Well 4

Analyte	Result	DF	DLR	Units	Date/Analyst
60B Volatile Organic Compounds					
Tetrachloroethene	530	10	50.0	ug/L	6/ 8/99 AHT
Toluene	ND	1	5	ug/L	6/ 6/99 AHT
Trichloroethene	36	1	5	ug/L	6/ 6/99 AHT
Trichlorofluoromethane	ND	1	5	ug/L	6/ 6/99 AHT
Vinyl acetate	ND	1	50	ug/L	6/ 6/99 AHT
Vinyl chloride	ND	1	5	ug/L	6/ 6/99 AHT
Xylenes, total	ND	1	5	ug/L	6/ 6/99 AHT
cis-1,2-Dichloroethene	3.7 J	1	5	ug/L	6/ 6/99 AHT
cis-1,3-Dichloropropene	ND	1	5	ug/L	6/ 6/99 AHT
cis-1,4-Dichloro-2-butene	ND	1	20	ug/L	6/ 6/99 AHT
m and p-Xylene	ND	1	5	ug/L	6/ 6/99 AHT
n-Butylbenzene	ND	1	5	ug/L	6/ 6/99 AHT
n-Propylbenzene	ND	1	5	ug/L	6/ 6/99 AHT
o-Xylene	ND	1	5	ug/L	6/ 6/99 AHT
p-Isopropyltoluene	ND	1	5	ug/L	6/ 6/99 AHT
sec-Butylbenzene	ND	1	5	ug/L	6/ 6/99 AHT
tert-Butylbenzene	ND	1	5	ug/L	6/ 6/99 AHT
trans-1,2-Dichloroethene	ND	1	5	ug/L	6/ 6/99 AHT
trans-1,3-Dichloropropene	ND	1	5	ug/L	6/ 6/99 AHT
trans-1,4-Dichloro-2-butene	ND	1	20	ug/L	6/ 6/99 AHT

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 124260
Matrix: WATER
Date Sampled:
Time Sampled:
Sampled By:

Client: Converse Consultants
Client Sample ID: Trip Blank

260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst
1,1,1,2-Tetrachloroethane	ND	1	5	ug/L	6/ 6/99 AHT
1,1,1-Trichloroethane	ND	1	5	ug/L	6/ 6/99 AHT
1,1,2,2-Tetrachloroethane	ND	1	5	ug/L	6/ 6/99 AHT
1,1,2-Trichloroethane	ND	1	5	ug/L	6/ 6/99 AHT
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/L	6/ 6/99 AHT
1,1-Dichloroethane	ND	1	5	ug/L	6/ 6/99 AHT
1,1-Dichloroethene	ND	1	5	ug/L	6/ 6/99 AHT
1,1-Dichloropropene	ND	1	5	ug/L	6/ 6/99 AHT
1,2,3-Trichlorobenzene	ND	1	5	ug/L	6/ 6/99 AHT
1,2,3-Trichloropropane	ND	1	5	ug/L	6/ 6/99 AHT
1,2,4-Trichlorobenzene	ND	1	5	ug/L	6/ 6/99 AHT
1,2,4-Trimethylbenzene	ND	1	5	ug/L	6/ 6/99 AHT
1,2-Dibromo-3-chloropropane	ND	1	5	ug/L	6/ 6/99 AHT
1,2-Dibromoethane	ND	1	5	ug/L	6/ 6/99 AHT
1,2-Dichlorobenzene	ND	1	5	ug/L	6/ 6/99 AHT
1,2-Dichloroethane	ND	1	5	ug/L	6/ 6/99 AHT
1,2-Dichloropropane	ND	1	5	ug/L	6/ 6/99 AHT
1,3,5-Trimethylbenzene	ND	1	5	ug/L	6/ 6/99 AHT
1,3-Dichlorobenzene	ND	1	5	ug/L	6/ 6/99 AHT
1,3-Dichloropropane	ND	1	5	ug/L	6/ 6/99 AHT
1,4-Dichlorobenzene	ND	1	5	ug/L	6/ 6/99 AHT
1,4-Dioxane	ND	1	57	ug/L	6/ 6/99 AHT
1-Chlorohexane	ND	1	5	ug/L	6/ 6/99 AHT
2,2-Dichloropropane	ND	1	5	ug/L	6/ 6/99 AHT
2-Butanone (MEK)	ND	1	100	ug/L	6/ 6/99 AHT
2-Chloroethyl vinyl ether	ND	1	5	ug/L	6/ 6/99 AHT
2-Chlorotoluene	ND	1	5	ug/L	6/ 6/99 AHT
2-Hexanone	ND	1	20	ug/L	6/ 6/99 AHT
4-Chlorotoluene	ND	1	5	ug/L	6/ 6/99 AHT
4-Methyl -2- Pentanone	ND	1	10	ug/L	6/ 6/99 AHT
Acetone	ND	1	100	ug/L	6/ 6/99 AHT
Acetonitrile	ND	1	50	ug/L	6/ 6/99 AHT

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 124260
Matrix: WATER
Date Sampled:
Time Sampled:
Sampled By:

Client: Converse Consultants
Client Sample ID: Trip Blank

Analyte	Result	DF	DLR	Units	Date/Analyst
60B Volatile Organic Compounds					
Acrolein	ND	1	200	ug/L	6/ 6/99 AHT
Acrylonitrile	ND	1	10	ug/L	6/ 6/99 AHT
Allyl chloride	ND	1	5	ug/L	6/ 6/99 AHT
Benzene	ND	1	5	ug/L	6/ 6/99 AHT
Benzyl chloride	ND	1	5	ug/L	6/ 6/99 AHT
Bromobenzene	ND	1	5	ug/L	6/ 6/99 AHT
Bromochloromethane	ND	1	5	ug/L	6/ 6/99 AHT
Bromodichloromethane	ND	1	5	ug/L	6/ 6/99 AHT
Bromoform	ND	1	5	ug/L	6/ 6/99 AHT
Bromomethane	ND	1	5	ug/L	6/ 6/99 AHT
Carbon Disulfide	ND	1	5	ug/L	6/ 6/99 AHT
Carbon tetrachloride	ND	1	5	ug/L	6/ 6/99 AHT
Chlorobenzene	ND	1	5	ug/L	6/ 6/99 AHT
Chloroethane	ND	1	5	ug/L	6/ 6/99 AHT
Chloroform	ND	1	5	ug/L	6/ 6/99 AHT
Chloromethane	ND	1	5	ug/L	6/ 6/99 AHT
Dibromochloromethane	ND	1	5	ug/L	6/ 6/99 AHT
Dibromomethane	ND	1	5	ug/L	6/ 6/99 AHT
Dichlorodifluoromethane	ND	1	5	ug/L	6/ 6/99 AHT
Ethyl benzene	ND	1	5	ug/L	6/ 6/99 AHT
Ethyl methacrylate	ND	1	50	ug/L	6/ 6/99 AHT
Hexachlorobutadiene	ND	1	5	ug/L	6/ 6/99 AHT
Iodomethane	ND	1	5	ug/L	6/ 6/99 AHT
Isopropylbenzene (Cumene)	ND	1	5	ug/L	6/ 6/99 AHT
Methacrylonitrile	ND	1	35	ug/L	6/ 6/99 AHT
Methyl methacrylate	ND	1	5	ug/L	6/ 6/99 AHT
Methyl-tert-butylether (MTBE)	ND	1	20	ug/L	6/ 6/99 AHT
Methylene chloride	ND	1	5	ug/L	6/ 6/99 AHT
Naphthalene	ND	1	5	ug/L	6/ 6/99 AHT
Pentachloroethane	ND	1	5	ug/L	6/ 6/99 AHT
Propionitrile	ND	1	100	ug/L	6/ 6/99 AHT
Styrene	ND	1	5	ug/L	6/ 6/99 AHT

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 124260
Matrix: WATER
Date Sampled:
Time Sampled:
Sampled By:

Client: Converse Consultants
Client Sample ID: Trip Blank

Analyte	Result	DF	DLR	Units	Date/Analyst	
260B Volatile Organic Compounds						
Tetrachloroethene	ND	1	5	ug/L	6/ 6/99	AHT
Toluene	ND	1	5	ug/L	6/ 6/99	AHT
Trichloroethene	ND	1	5	ug/L	6/ 6/99	AHT
Trichlorofluoromethane	ND	1	5	ug/L	6/ 6/99	AHT
Vinyl acetate	ND	1	50	ug/L	6/ 6/99	AHT
Vinyl chloride	ND	1	5	ug/L	6/ 6/99	AHT
Xylenes, total	ND	1	5	ug/L	6/ 6/99	AHT
cis-1,2-Dichloroethene	ND	1	5	ug/L	6/ 6/99	AHT
cis-1,3-Dichloropropene	ND	1	5	ug/L	6/ 6/99	AHT
cis-1,4-Dichloro-2-butene	ND	1	20	ug/L	6/ 6/99	AHT
m and p-Xylene	ND	1	5	ug/L	6/ 6/99	AHT
n-Butylbenzene	ND	1	5	ug/L	6/ 6/99	AHT
n-Propylbenzene	ND	1	5	ug/L	6/ 6/99	AHT
o-Xylene	ND	1	5	ug/L	6/ 6/99	AHT
p-Isopropyltoluene	ND	1	5	ug/L	6/ 6/99	AHT
sec-Butylbenzene	ND	1	5	ug/L	6/ 6/99	AHT
tert-Butylbenzene	ND	1	5	ug/L	6/ 6/99	AHT
trans-1,2-Dichloroethene	ND	1	5	ug/L	6/ 6/99	AHT
trans-1,3-Dichloropropene	ND	1	5	ug/L	6/ 6/99	AHT
trans-1,4-Dichloro-2-butene	ND	1	20	ug/L	6/ 6/99	AHT

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES

LCS/MB REPORT FORM ORGANICS

ethod : EPA 8260

atrix: WATER

Analysis Date: 06/08/99

pplies to: LR 38194, 38200, 37485, 37628, 37852, 37760, 38117, 37781, 37801

porting Units = ug/L

COMPOUND	RESULTS	TRUE	%REC	QC LIMITS
1-Dichloroethene	17.1	20	85.5	61 - 145
Benzene	18.5	20	92.5	76 - 127
ichloroethene	15.2	20	76.0	71 - 120
Toluene	16.5	20	82.5	76 - 125
ılorobenzene	18.9	20	94.5	75 - 130

METHOD BLANK: ALL ND

ASSOCIATED LABORATORIES

QA REPORT FORM - ORGANICS

QC Sample: LR 38194 - 024

Matrix: Water

Method : 8260

Prep. Date: 06/09/99

Analysis Date: 06/09/99

Applies to: LR 38194, 38200, 37485, 37628, 37852, 37760, 38117, 37781, 37801

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = ug/L

Test	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	0.0	U	10	7.7	7.2	77	72	6.7	22	59-172
Benzene	0.0	U	10	8.9	8.4	89	84	5.8	21	66-142
Trichloroethene	0.0	U	10	7.9	7.4	79	74	6.5	21	59-139
Toluene	0.0	U	10	8.4	7.9	84	79	6.1	21	59-139
Chlorobenzene	0.0	U	10	9.0	8.6	90	86	4.5	21	60-133

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Dup

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

ASSOCIATED LABORATORIES

LCS/MB REPORT FORM ORGANICS

[ethod : EPA 8260

atrix: WATER

Analysis Date: 06/06/99

pplies to: LR 37618, 38107, 38109, 38113, 38031, 37978, 38047, 38111, 38000, 37781

eporting Units = ug/L

COMPOUND	RESULTS	TRUE	%REC	QC LIMITS
1-Dichloroethene	18.1	20	90.5	61 - 145
Benzene	19.2	20	96.0	76 - 127
richloroethene	16.3	20	81.5	71 - 120
Toluene	17.8	20	89.0	76 - 125
hlorobenzene	20.3	20	101.5	75 - 130

METHOD BLANK: ALL ND

ASSOCIATED LABORATORIES

QA REPORT FORM - ORGANICS

QC Sample: LR 37978 - 968

Matrix: WATER

Method : 8260

Prep. Date: 06/07/99

Analysis Date: 06/07/99

Applies to: LR 37618, 38107, 38109, 38113, 38031, 37978, 38047, 38111, 38000, 37781

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = ug/L

Test	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	0.0	U	10	8.1	10.1	81	101	22.0	30	61-145
Benzene	0.0	U	10	9.5	8.7	95	87	8.8	11	76-127
Trichloroethene	0.0	U	10	8.2	7.5	82	75	8.9	14	71-120
Toluene	0.0	U	10	8.8	7.8	88	78	12.0	13	76-125
Chlorobenzene	0.0	U	10	9.4	9.2	94	92	2.2	13	75-130

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Dup

REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

ASSOCIATED LABORATORIES

QA REPORT FORM - ORGANICS

QC Sample: LFB060799

Matrix: SOLID

Ext. Date: 06/07/99

Analysis Date: 06/07/99

Lab ID#'s in Batch : LR 37781

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = ug/Kg

COMPOUND	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spk. Dup	%REC MS	%REC MSD	% RPD	PREP. Blank
1,1-Dichloroethane	8021	0.0	U	50	40.04	48.33	80.1	96.7	19	ND
Chloroform	8021	0.0	U	50	52.13	55.39	104.3	110.8	6	ND
1,2-Dichloropropane	8021	0.0	U	50	45.06	40.44	90.1	80.9	11	ND
cis-1,3-Dichloropropene	8021	0.0	U	50	46.15	38.93	92.3	77.9	17	ND
trans-1,3-Dichloropropene	8021	0.0	U	50	44.05	46.03	88.1	92.1	4	ND
Bromochloromethane	8021	0.0	U	50	49.80	40.78	99.6	81.6	20	ND
trans-1,2-Dichloroethene	8021	0.0	U	50	39.25	44.99	78.5	90.0	14	ND
1,1,1-Trichloroethane	8021	0.0	U	50	45.20	45.94	90.4	91.9	2	ND
Trichloroethene	8021	0.0	U	50	48.27	48.89	96.5	97.8	1	ND
Tetrachloroethene	8021	0.0	U	50	60.76	59.66	121.5	119.3	2	ND
1,2,3-Trichloropropane	8021	0.0	U	50	39.45	36.16	78.9	72.3	9	ND
Carbon tetrachloride	8021	0.0	U	50	48.46	48.60	96.9	97.2	0	ND
1,3-Dichlorobenzene	8021	0.0	U	50	44.24	53.80	88.5	107.6	20	ND
1,4-Dichlorobenzene	8021	0.0	U	50	44.69	41.79	89.4	83.6	7	ND
1,2-Dichlorobenzene	8021	0.0	U	50	37.13	40.54	74.3	81.1	9	ND

ND = "U" for Not - Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS & MSD = Percent Recovery of Matrix Spike and Matrix Spike Duplicate

%REC LIMITS = 65 - 135
RPD LIMITS = 35

ASSOCIATED LABORATORIES

LCS RECOVERY

Method: 8021

trix: SOLID

p. Date: 06/07/99

Analysis Date: 06/07/99

b. Number : LR 37781

REPORTING UNITS = ug/Kg

COMPOUND	Recovered	True Value	LIMITS
l-Dichloroethene	10.7	10	8 - 12
1,1-Trichloroethane	10.6	10	8 - 12
rbon tetrachloride	11.4	10	8 - 12
Trichloroethene	11.6	10	8 - 12
3-Dichlorobenzene	11.5	10	8 - 12
1,4-Dichlorobenzene	10.9	10	8 - 12
2-Dichlorobenzene	10.8	10	8 - 12

ASSOCIATED LABORATORIES
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3701

CHAIN OF CUSTODY RECORD

Date 5/26/99 Page 1 of 2

CLIENT Converse Consultants
ADDRESS 185 E. Parkridge Suite B
Costa Mesa, CA
PROJECT NAME Crown Cleaners 98-42589-16

PROJECT MANAGER William Ragsdale
PHONE NUMBER 714-444-9660
SAMPLERS: (Signature)

Samples Intact Yes ___ No ___
County Seals Intact Yes ___ No ___
Sample Ambient ___ Cooled X Frozen ___
Same Day ___ 24 Hr. ___
Regular X 48 Hr. ___

SAMPLE NUMBER	LOCATION DESCRIPTION	Depth	DATE	TIME	SAMPLE TYPE: WATER	SAMPLE TYPE: AIR	SAMPLE TYPE: SOLID	NO. OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
MW 2 - 2	monitoring well 2	2	5/26/99	9:41			X	1		8021 Purgeable
" 5	"	5		9:48			X	1		Halocarbons
" 10	"	9		10:02			X	1		
MW-3 - 2	" 3	2		10:52			X	1		
" - 5	" 3	5		10:58			X	1		
" 10	" 3	9		11:03			X	1		
HA18- 2	DRY CLEANER	2		12:09			X	1		
" 5	"	5		12:15			X	1		
" 10	"	9		12:23			X	1		
HA9 2	Lucky's	2		4:48			X	1		
5	"	5		4:52			X	1		
10	"	10		4:57			X	1		

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	Ken Hussey	5:20 5-26-99
Relinquished by: (Signature)	Received by Laboratory for analysis: (Signature)	Date/Time

Special Instructions:

I hereby authorize the performance of the above indicated work.

DISTRIBUTION: White with report. Yellow to AL, Pink to Courier

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806 N. Batavia • Orange, CA 92868
(714) 771-6900 • FAX: (714) 538-1209

37781

CHAIN OF CUSTODY RECORD

Date 5/26/99 Page 2 of 2

CLIENT Converse Consultants
ADDRESS 185 E. Parkview Suite B
Costa Mesa, CA

PROJECT MANAGER William Ragsdale
PHONE NUMBER 714-444-9660
SAMPLERS: (Signature)

PROJECT NAME
Crown Cleaners 98-42-585-16

Samples Intact Yes ____ No ____
County Seals Intact Yes ____ No ____
Sample Ambient ____ Cooled X Frozen ____
Same Day ____ 24 Hr. ____
Regular ____ 48 Hr. ____

SAMPLE NUMBER	LOCATION DESCRIPTION	Depth	DATE	TIME	SAMPLE TYPE: WATER	SAMPLE TYPE: AIR	SAMPLE TYPE: SOLID	NO OF CNTNRS	SUSP. CONTAM	TESTS REQUIRED
HA20-2	Luky's	2	5/26/99	4:30			X	1		8021 Purgeable
5	"	5		4:35			X	1		Halocarbons
10	"	10		4:40			X	1		
HA21-2	"	2		4:08			X	1		
5	"	5		4:14			X	1		
10	"	10		4:19			X	1		
MW2	Monitoring Well	2		1:48	X			3		EPA Method 8010 BY 8260
MW3	" "	3		1:55	X			3		From 1/2 Dichloroethane Monomethane
MW4	" "	4		1:38	X			3		Dichlorodifluoromethane

Relinquished by: (Signature)

Received by: (Signature) Ken Hulsey

Date/Time 5:20 5-20-99

Relinquished by: (Signature)

Received by Laboratory for analysis: (Signature)

Date/Time

Special Instructions:

I hereby authorize the performance of the above indicated work.

DISTRIBUTION: White with report. Yellow to AL, Pink to Courier

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CONVERSE ENVIRONMENTAL WEST

Celebrating 50 Years of Dedication in Engineering and Environmental Sciences

August 6, 1996

Ms. Lisa Barkemeyer
Diversified Shopping Centers
P.O. Box 5047
Costa Mesa, California 92628-5047

Subject: **Summary Report - Site Investigation Results**
Crown Cleaners (existing dry cleaner facility)
18583 Brookhurst Street
Fountain Valley, California
Converse Project No. 96-42318-03

Dear Ms. Barkemeyer:

Introduction

Converse Environmental West (Converse) is pleased to submit this Report summarizing the findings from our facility walkthrough and subsequent field investigation at Crown Cleaners. The work was conducted between April 25, 1996 and May 22, 1996, at the above referenced property. Our services were performed in accordance with our proposals dated April 17, 1996, May 6, 1996, and May 21, 1996.

Purpose and Scope of Work

In order to reduce uncertainties associated with site use as a dry cleaner, Converse has evaluated site conditions at the subject property for potential adverse environmental impacts.

General concerns noted with any solvent based dry cleaner operation include the following areas:

- Possible discharge of solvents in the subsurface soils (through seams and cracks in the floors), both in the areas where solvent is stored (past and present), and in the area near the dry cleaner equipment exists (past and present).

- Possible unauthorized discharge of solvents into the sewer system. Because the facility is older than 10 years, the sewer pipes may have leaked, causing the solvents to impact the soils in the area of the sewer lateral, prior to connection to the common main service pipe.

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15245 Alton Parkway, Suite 100
Irvine, California 92718-2307

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http://www.converseconsultants.com/

- Solvents may be present within the roof area due to possible venting of a previous dry cleaning machine.

In order gain a higher level of confidence that the dry cleaner business has not negatively impacted the subject property, Diversified Shopping Centers requested that a sampling and analyses plan be developed to investigate if solvents had impacted the subsurface soils in the area of the existing dry cleaner equipment and outside the rear door of the facility.

Background

On April 25, 1996, Converse conducted a visit to the referenced facility. The Crown Cleaners facility is a one story building, attached to other businesses within a shopping center. The facility consisted of a central area where clothes were stored on hanging racks. The rear portion of the building included a dry cleaning area where the dry cleaning equipment and a steam boiler were located. The dry cleaning area appeared well kept. The floor around the dry cleaning machine was covered with tile. The floor under the dry cleaning equipment was exposed rough concrete.

Near the rear door we observed a room with a steam boiler, compressor, and hot water heater. Current permits for the use of the boiler and compressor were on display. An approximately 20 foot long, covered roll-off storage shed was located outside the rear of the business. The shed is reportedly used for general storage of equipment and supplies.

Converse met with Mr. Greg Brown (current owner and operator), to discuss the operations and general history of the Crown Cleaners facility. Mr. Brown explained that he has been the owner/operator of the facility since October 1994 (approximately 19 months). Mr. Brown has used the current solvent dry cleaning machine since he has owned the business. The solvent used at this facility is tetrachloroethene (PCE), in a dry to dry process.

Dry Cleaning Equipment and Solvent Storage

Mr. Brown said that the existing dry cleaning equipment was on-site when he purchased the business. Labels on the equipment infer the equipment may have been manufactured and/or installed around October 1990. Mr. Brown said that the dry cleaning business had been at this location for approximately 8 years prior to October 1994 when he purchased the business. The prior owner was reportedly Mr. Jack Enlow, who operated several other dry cleaning business in the County. Converse could not specifically identify when the existing equipment was installed or what equipment may have been at the property prior to the current equipment.

According to Mr. Brown, the current dry cleaning machine has three solvent tanks that each hold approximately 20 gallons of PCE. Currently, there is no other bulk storage of new PCE at the property other than the machine. When the PCE volume in the machine runs low, Mr. Brown requests a refill from his supplier. Waste solvent and filters are currently stored in drums supplied by Safety Kleen. The waste solvent is stored inside the business. Spent filters from the

dry cleaning equipment are stored in steel drums in the storage shed outside of the rear of the business. All of the Safety Kleen steel drums observed at the site were in good condition.

Mr. Brown stated that he has not experienced spills or releases of PCE from the machine or the stored spent solvent.

Permits, Manifests, and Inspections

Converse reviewed the current annual SCAQMD permit for the operation of a dry cleaning business (permit No. D87457, expires November 16, 1996). According to Mr. Brown, SCAQMD has not issued any violations for the Crown Cleaners site.

Mr. Brown produced records documenting that spent solvent and filters had been removed from the property under manifest (including a site specific EPA identification number) since October 1994 (the past 18 months). The records revealed that Safety Kleen has transported and disposed of waste materials generated at this site. Mr. Brown stated that he manifests spent solvent and/or used filters from the property on a monthly basis.

Mr. Brown stated that he has not received any violations for the facility.

Converse reviewed an Orange County Health Care Agency (OCHCA) inspection report, dated June 14, 1995. Four compliance issues were indicated on the report: 1) waste solvent drums were not sealed, 2) residual solvent was noticed in the plastic buckets used to transfer waste solvent from the dry cleaning equipment to the storage drums, 3) need to keep drums inside the business, and 4) manifests were not readily available for review. Mr. Brown stated he corrected the compliance issues by: 1) sealing the waste solvent drums (except when filling), 2) draining the plastic buckets were more completely into the waste solvent storage drums, 3) storing the empty solvent storage drums either inside the business or in a roll-off storage shed located behind the business, and 4) he sent copies of all 1995 manifests to OCHCA, as requested. According to Mr. Brown, the partially filled or full spent solvent drums were always kept near the dry cleaner equipment

Converse asked Mr. Brown if any other records or information concerning the business practices of the prior owner were available. Mr. Brown produced a box of records, apparently kept by the prior owner (Mr. Jack Enlow). Converse reviewed the available records, including OCHCA inspection reports and manifest documents. No violations were noted from the OCHCA inspection reports dated January 1989, March 1990, March 1991, October 1992, and October 1993. No OCHCA inspection reports were reviewed for inspections that may have occurred during 1994. Manifests and invoices for waste solvent and/or spent filters that had been removed from the business dating back to March 1989 were also reviewed.

Field Investigation Work

Subsequent to our reconnaissance and record review, on May 7, 1996, Converse performed the following services:

- Conducted soil sampling activities at three (3) locations at the existing dry cleaner facility. Two locations (HA-1 and HA-2) were adjacent to the existing dry cleaner equipment and one location (HA-3) was outside of the rear door (See Figure 1). Soil samples were collected at each location at depths of 2 and 5 feet below ground surface (bgs) and field screened with an organic vapor analyzer (OVA).

- Performed chemical analyses on three (3) selected soil samples (one from each location) in accordance with EPA Method 8010 for purgeable halocarbons (i.e. tetrachloroethene (PCE) and trichloroethene (TCE)). The analytical work was expedited, in accordance with your request. For analytical results, see Table 1.

Based on the soil sample head space OVA readings, Converse submitted the shallow soil samples to Associated Laboratories for chemical analysis. Based on the analytical results, Converse recommended that the deeper soil samples collected at each of the three locations also be analyzed for purgeable halocarbons.

The following table presents the results from the initial field investigation work:

Location	Field OVA Reading	PCE Concentration	TCE Concentration
HA-1 @ 2 feet bgs	3 ppm	1.03 ppm	0.12 ppm
HA-1 @ 5 feet bgs	3 ppm	0.08 ppm	0.02 ppm
HA-2 @ 2 feet bgs	25 ppm	8.90 ppm	0.18 ppm
HA-2 @ 5 feet bgs	3 ppm	0.42 ppm	0.07 ppm
HA-3 @ 2 feet bgs	2 ppm	0.40 ppm	nondetect
HA-3 @ 5 feet bgs	2 ppm	nondetect	nondetect

PCE and TCE were detected in the subsurface soils near the existing dry cleaner equipment and only PCE was detected outside the rear door of the facility. Generally, the concentrations of the detected compounds (PCE/TCE) decreased with depth. Based on the analytical findings, Converse recommended that a more extensive investigation program be developed and implemented to investigate the lateral and vertical extent of soil contamination.

On May 22 and 23, 1996, Converse performed the following additional services:

- Conducted soil sampling activities at nine (9) locations at the existing dry cleaner facility. Six locations (HA-4 through HA-8, and HA-12) were located near the existing dry cleaner equipment, two (HA-10 and HA-11) were located outside of the rear door, and one (HA-9) was located in the boiler room. For all hand auger locations, see Figure 1. Soil samples were collected within the building at depths of 2, 5, 7, and 9 feet bgs and field screened with and OVA. Soil samples were collected outside the rear door of the building, at depths of 2, 5, and 7 feet bgs and field screened with an OVA.

- Submitted thirty-three (33) soil samples for chemical analysis in accordance with EPA Method 8010 for purgeable halocarbons (i.e. tetrachloroethene (PCE) and trichloroethene (TCE)). For analytical results, see Table 1.

- Performed permeability testing (ASTM D 5084-90) on three soil samples at locations HA-6 (5 feet bgs), HA-7 (2.5 feet bgs), and HA-11 (7.5 feet bgs).

Summary of Findings

Generally, the subsurface soils encountered consisted of a low permeability silty clay from below the concrete floor to a depth of approximately 5-6 feet bgs. The permeability results for the three samples tested (HA-6; 5 feet bgs, HA-7; 2.5 feet bgs, and HA-11; 7.5 feet bgs) ranged between 1.2×10^{-7} to 9.1×10^{-8} cm/sec. For permeability test results, see Table 2.

Below the silty clay, a silty sand was encountered between approximately 6 and 10 feet bgs. Groundwater was encountered a depth of approximately 10 feet bgs at hand auger location HA-8. Converse was unable to collect a water sample from location HA-8. Converse did not advance any of the other sampling locations below 9.5 feet bgs, therefore no other groundwater sampling was attempted.

Tetrachloroethene (PCE) and trichloroethene (TCE) were detected in the subsurface soils near the existing dry cleaner equipment, the boiler room, and outside the rear door of the facility. The concentrations of the detected compounds (PCE/TCE) were highest at shallower depths (2 feet bgs) and generally decreased with depth. However, soil sample HA-4 at a depth of 10-10.5 feet bgs, in the capillary fringe above the groundwater, revealed 24 parts per billion (ppb). For analytical results, see Table 1.

2-2.5'

The highest concentration of solvents detected during this investigation work was reported at location HA-2 (8.9 ppm PCE at 2.5 feet bgs). The highest concentration of PCE/TCE reported from soil samples collected and analyzed from below 5 feet bgs was 0.27 ppm PCE (HA-5 at 9 feet bgs). For analytical reports for all soil samples analyzed, see Appendix A.

Conclusions

The results of the soil sampling and analysis program indicate a release of dry cleaner solvents (PCE/TCE) has occurred in the area of the existing dry cleaner equipment. The release has impacted an area estimated to be at least 16 feet wide and 30 feet long, centered below the existing dry cleaner equipment. Although every soil sample collected and analyzed from a depth of 2 feet bgs revealed detectable PCE, the concentrations of PCE/TCE decrease with distance from the existing dry cleaner equipment.

- Based on the interview with Mr. Brown (current tenant) and observations noted during the site walk, it is our opinion that handling and disposal of chemicals by the current occupant was typical of dry cleaning operations. Although we saw no evidence of spills, and current practices appear appropriate for the operation, Converse is unaware how prior owners may have operated the dry cleaner business and what dry cleaner equipment they may have used.

- The concentration of PCE and TCE reported at depths of 7 and 9 feet bgs reveal a smaller impacted area (approximately 16 feet by 12 feet), centered below the existing dry cleaner equipment.

- The date of release and the responsible party for the release could not be determined.

- The potential impact to groundwater from the released solvents has not been determined, however a detection of PCE was noted in the capillary fringe.

Recommendations

Based on the analytical results, Converse recommends that this Summary Report be submitted the Orange County Health Care Agency (County) and the Santa Ana Regional Water Quality Control Board (Board) for their review.

In order to minimize the release of additional dry cleaner solvents into the subsurface soils, Converse recommends that the floor under and around the existing dry cleaning equipment be inspected for cracks and sealed. In addition, a pan should be installed under the existing dry cleaning equipment to contain spilled solvents.

Converse will request that the County evaluate the analytical results in accordance with their simplified vapor diffusion model to identify if the levels of PCE/TCE create a public health excess lifetime cancer risk (ELCR) greater than the acceptable 1×10^{-6} level. If the model results are favorable, the County will likely refer this case to the Board. If the model results are not favorable, the County will request that a Corrective Action Plan be developed to mitigate the impacted soil that presents a public health excess lifetime cancer risk

The Santa Ana Regional Water Quality Control Board (Board) oversees cases where an unauthorized release of chemicals has, or has the potential to, impact groundwater. After the Board has reviewed this report, they will determine additional investigation work, if any, which will be required to investigate the impact to the groundwater from the unauthorized release of solvents from this site.

Warranty and Limitations

The scope of work presented herein does not constitute a complete Phase I site assessment (ASTM 1527-94, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process). The findings presented herein are based on our evaluation of currently available data and were prepared in accordance with generally accepted environmental principles common to the local area in which we practice. We make no other warranty, either expressed or implied.

Converse is not responsible for the accuracy of the information provided by others. This report should not be regarded as a guarantee that no subsurface contamination is present beyond what has been disclosed. There may be subsurface conditions that cannot be reasonable predicted with the services performed to date.

We trust that this report meets your current needs. If you have any questions or comments relative to this report, please contact the undersigned at (714) 453-2880.

Sincerely,

CONVERSE ENVIRONMENTAL WEST

REGISTERED GEOLOGIST
HENRY B. AMES
No. 6304
Exp. 9/97
STATE OF CALIFORNIA

Henry B. Ames, R.G. 6304
Senior Geologist

Thomas J. Scheil, R.G.E.
Vice President

hba/jp/tjs

Dist: 3/Addressee

Encl: Table 1 - Laboratory Results of Soil Samples
Table 2 - Summary of Permeability Test Results
Figure 1 - Site Plan
Appendix A - Analytical Reports

TABLES

TABLE 1
Laboratory Results of Soil Samples
Crown Cleaners
18583 Brookhurst Street
Fountain Valley, California
(Converse Project No. 96-42318-01)

EPA Laboratory Method 8010 - Purgeable Halocarbons
Results in Parts Per Million (ppm)

Sample Depth (feet)	Soil Boring HA-1		Soil Boring HA-5		Soil Boring HA-2		Soil Boring HA-8		Soil Boring HA-3		Soil Boring HA-4	
	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE
2-2.5'	1.03	0.12	2.2*	0.14*	8.9	0.18	1.4	0.14	0.4	ND	1.1	0.18
5-5.5'	0.08	0.02	NT	NT	0.42	0.07	NT	NT	ND	ND	0.42	0.05
7-7.5'	--	--	0.064	ND	--	--	0.03	ND	--	--	0.027	ND
9-9.5'	--	--	0.27	ND	--	--	0.14	ND	--	--	0.057	ND
10-10.5'	--	--	--	--	--	--	--	--	--	--	0.024	ND
Detection Limits	0.01		0.01		0.01		0.01		0.01		0.01	
Date Sampled	05/07/96		05/22/96		05/07/96		05/22/96		05/07/96		05/22/96	

LEGEND:
PCE = Tetrachloroethene
TCE = Trichloroethene
parts per million = milligrams per kilogram (mg/kg)
ND = Not Detected above laboratory method detection limits
NT = Collected soil sample not analyzed
-- = No Sample Collected
Note - All other target compounds were not detected. See laboratory analytical report.
* = Soil sample HA-5 collected at 2-2.5' also contained 0.46 ppm of cis-1,2-Dichloroethene and 0.2 ppm of Acetone
** = Soil sample collected at indicated depth
Note: HA-5 boring location is a continuation of boring HA-1
HA-8 boring location is a continuation of boring HA-2

TABLE 1
Laboratory Results of Soil Samples
Crown Cleaners
18583 Brookhurst Street
Fountain Valley, California
(Converse Project No. 96-42318-01)

EPA Laboratory Method 8010 - Purgeable Halocarbons
Results in Parts Per Million (ppm)

Sample Depth (feet)	Soil Boring HA-6		Soil Boring HA-7		Soil Boring HA-9		Soil Boring HA-10		Soil Boring HA-11		Soil Boring HA-12	
	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE
2-2.5'	**0.76**	**0.13**	**1.1**	**0.13**	**1.2**	**0.64**	**0.07**	**0.01**	**0.04**	ND	**1.0**	ND
			(2.5-3')**									
5-5.5'	**0.29**	**0.03**	**0.48**	**0.03**	**0.05**	**0.03**	**0.01**	ND	ND	ND	**0.70**	**0.15**
	(5.5-6')**											
7-7.5'	**0.10**	ND	**0.07**	ND	ND	ND	ND	ND	**0.01**	ND	ND	ND
									(7.5-8')**			
9-9.5'	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
					(8.5-9')**							
10-10.5'	--	--	--	--	--	--	--	--	--	--	--	--
Detection Limits	0.01		0.01		0.01		0.01		0.01		0.01	
Date Sampled	05/22/96		05/22/96		05/22/96		05/22/96		05/22/96		05/23/96	

LEGEND:
PCE = Tetrachloroethene
TCE = Trichloroethene
parts per million = milligrams per kilogram (mg/kg)
ND = Not Detected above laboratory method detection limits
NT = Collected soil sample not analyzed
-- = No Sample Collected
Note - All other target compounds were not detected. See laboratory analytical report.
* = Soil sample HA-5 collected at 2-2.5' also contained 0.46 ppm
o f cis-1,2-Dichloroethene and 0.2 ppm of Acetone
** = Soil sample collected at indicated depth
Note: HA-5 boring location is a continuation of boring HA-1
HA-8 boring location is a continuation of boring HA-2

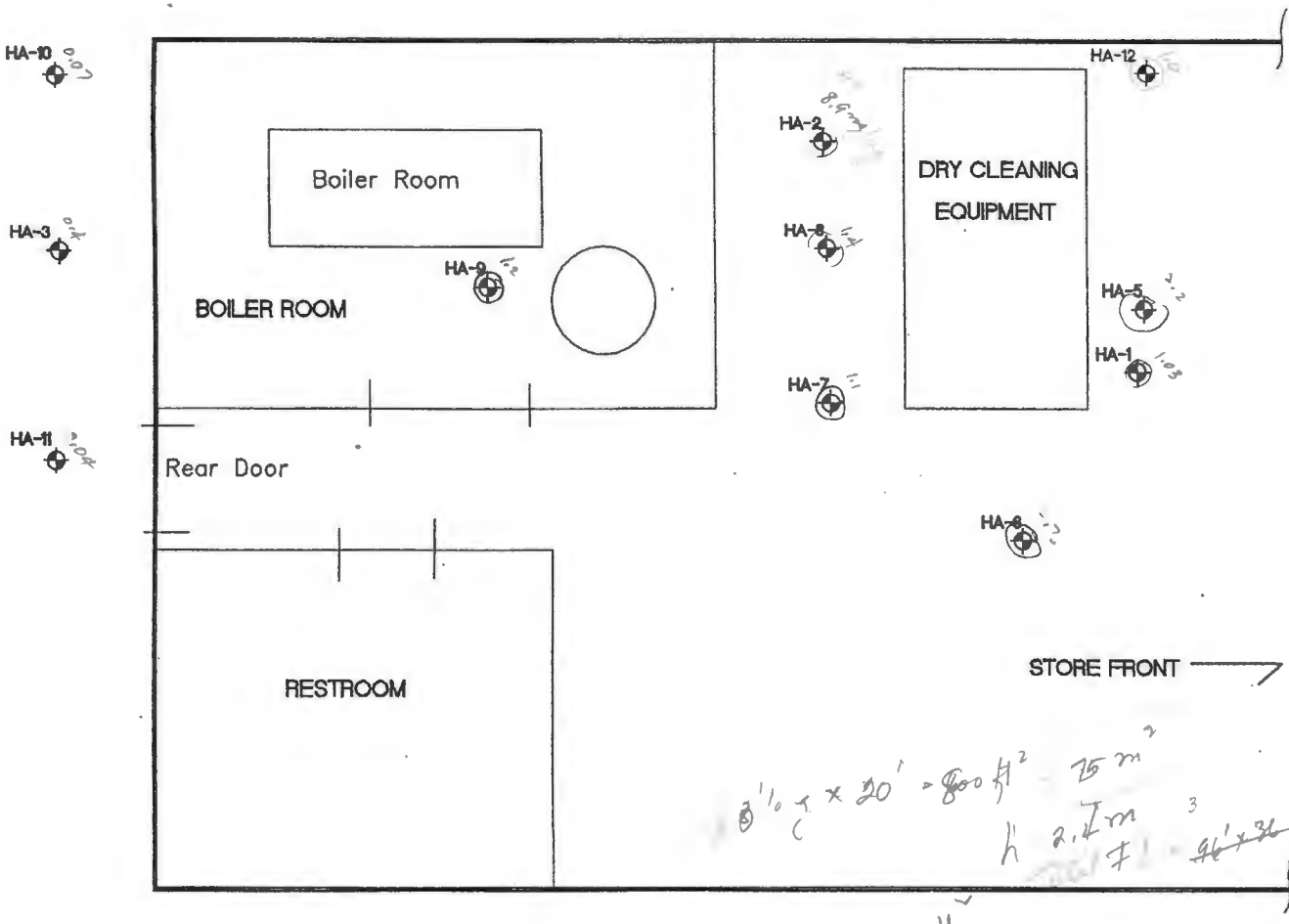
Table No. 2. Summary of Permeability Test Results (Job No. 96-42318-03)

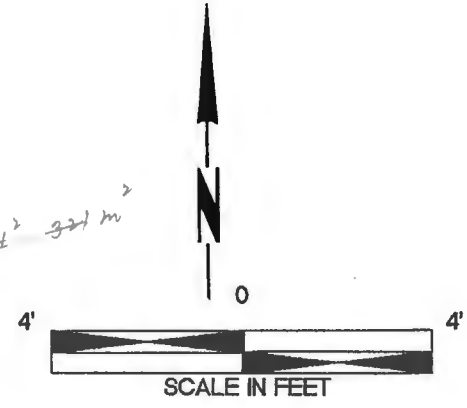
Sample ID/Depth	Soil Description	Undisturbed Dry Density (pcf)	Initial/Final Water Content (%)	Permeability (cm/sec)
HA-6/3-5.5	Silty Clay (CL), Black	103	18.9 / 23.9	2.2x10-7
HA-7/2-2.5	Silty Clay (CL), Black	103	22.3 / 25.0	1.2x10-7
HA-11/7-7.5	Silty Clay (CL), Black	101	20.6 / 25.2	$9.1X10^{-8}$

FIGURES

LEGEND:

HA-12 Approximate Location of Hand Auger/Boring Sampling Location.





SITE PLAN

CROWN CLEANERS
18583 Brookhurst Street
Fountain Valley, California
For: Diversified Shopping Centers

Converse Consultants Orange County

Scale	AS SHOWN
Date	5-28-96
Prepared By	SSM
Checked By	HBA
Approved By	HBA
Project No.	96-42318-03
Figure No.	1

APPENDIX A

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92668 - 714/771-6900 FAX 714/538-1209

CLIENT

Converse Consultants (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. JW0657-01

REPORTED 05/09/96

SAMPLE IDENTIFICATION Soil - **HA-1/1**

Project #96-42318-02
Date Collected 05/07/96

BASED ON SAMPLE As Submitted

RECEIVED 05/07/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Trichloroethene	EPA 8010	05/07/96 RR	0.12 mg/kg
Tetrachloroethene	EPA 8010	05/07/96 RR	1.03 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

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806 North Batavia - Orange, California 92668 - 714/771-6900 FAX 714/538-1209

CLIENT

Converse Consultants (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. JW0657-02

REPORTED 05/09/96

SAMPLE IDENTIFICATION Soil - **HA-2/1**

Project #96-42318-02

BASED ON SAMPLE Date Collected 05/07/96
As Submitted

RECEIVED 05/07/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Trichloroethene	EPA 8010	05/07/96 RR	0.18 mg/kg
Tetrachloroethene	EPA 8010	05/07/96 RR	8.90 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

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FAX 714/538-1209

CLIENT

Converse Consultants (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. JW0657-03

REPORTED 05/09/96

RECEIVED 05/07/96

SAMPLE IDENTIFICATION Soil - **HA-3/1**

BASED ON SAMPLE Project #96-42318-02
Date Collected 05/07/96
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Tetrachloroethene	EPA 8010	05/07/96 RR	0.4 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

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Client: Converse Consultants
Lab No.: JW0657-01, 02, 03
Date: May 09, 1996

PURGEABLE HALOCARBONS-EPA METHOD 8010	LIMITS OF DETECTION (mg/kg)
Chloromethane	0.01
Bromomethane	0.01
Dichlorodifluoromethane	0.01
Vinyl chloride	0.01
Chloroethane	0.01
Methylene chloride	0.01
Trichlorofluoromethane	0.01
1,1-Dichloroethene	0.01
1,1-Dichloroethane	0.01
trans-1,2-Dichloroethene	0.01
Chloroform	0.01
1,2-Dichloroethane	0.01
1,1,1-Trichloroethane	0.01
Carbon tetrachloride	0.01
Bromodichloromethane	0.01
1,2-Dichloropropane	0.01
trans-1,3-Dichloropropene	0.01
Trichloroethene	0.01
Dibromochloromethane	0.01
1,1,2-Trichloroethane	0.01
cis-1,3-Dichloropropene	0.01
2-Chloroethylvinyl ether	0.01
Bromoform	0.01
1,1,2,2-Tetrachloroethane	0.01
Tetrachloroethene	0.01
Chlorobenzene	0.01
1,3-Dichlorobenzene	0.01
1,2-Dichlorobenzene	0.01
1,4-Dichlorobenzene	0.01

ASSOCIATED LABORATORIES
QA REPORT FORM - ORGANICS

QC Sample:	JW0634-3	Report Date:	05/09/96
Matrix:	SOIL/SOLID	File Name:	I05076S
Prep. Date:	05/07/96	Analyst:	RR
Analysis Date:	05/07/96	Report by:	TT

Lab ID#'s in Batch : JW0634, 0655, 0657, RS0563

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS : MG/KG

COMPOUND	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike.Dup	%REC MS	%REC MSD	RPD
Bromodichloromethane	8010	0.000	U	0.10	0.073	0.069	73.0	69.0	6
1,2-Dichloroethane	8010	0.000	U	0.10	0.072	0.070	72.0	70.0	3
1,2-Trichloroethane	8010	0.000	U	0.10	0.075	0.086	75.0	86.0	14
Bromoform	8010	0.000	U	0.10	0.088	0.073	88.0	73.0	19
Trichloroethene	8010	0.000	U	0.10	0.086	0.092	86.0	92.0	7
cis-1,3-DCPE	8010	0.000	U	0.10	0.077	0.088	77.0	88.0	13
Tetrachloroethene	8010	0.000	U	0.10	0.103	0.085	103.0	85.0	19
trans-1,3-DCPE	8010	0.000	U	0.10	0.068	0.079	68.0	79.0	15
Chlorobenzene	8010/8020	0.000	U	0.10	0.075	0.079	75.0	79.0	5
1,3-Dichlorobenzene	8010/8020	0.000	U	0.10	0.092	0.105	92.0	105.0	13
1,4-Dichlorobenzene	8010/8020	0.000	U	0.10	0.095	0.109	95.0	109.0	14
1,2-Dichlorobenzene	8010/8020	0.000	U	0.10	0.095	0.110	95.0	110.0	15

%REC LIMITS = 65 - 135
RPD LIMITS = 35

ND = "U" for Not - Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS & MSD = Percent Recovery of Matrix Spike and Matrix Spike Duplicate

ASSOCIATED LABORATORIES
806 N. Batavia • Orange, CA 92668
(714) 771-6900 • FAX: (714) 538-1209

CHAIN OF CUSTODY RECORD

Date 5/7/96 Page 1 of 1

CLIENT Converse Consultants
ADDRESS Irvine, CA.
PROJECT NAME 96-42318-02
PROJECT MANAGER Henry Ames
PHONE NUMBER 714-453-2880
SAMPLERS: (Signature) [signature]

Samples Intact Yes X No ___
County Seals Intact Yes ___ No ___
Sample Ambient ___ Cooled X Frozen ___
Same Day ___ 24 Hr. ___
Regular ___ 48 Hr. X

SAMPLE NUMBER	LOCATION DESCRIPTION	O/A	DATE	TIME	SAMPLE TYPE: WATER	SAMPLE TYPE: AIR	SAMPLE TYPE: SOLID	NO. OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
HA-1/1	Depth 2-2.5'	(3ppm)	5/7/96				/	1	PCE	EPA 8010
HA-1/2	5-5.5'	(3ppm)					/			★ Hold
HA-2/1	2-2.5'	(25ppm)					/			8010
HA-2/2	5-5.5'	(3ppm)					/			★ Hold
HA-3/1	2-2.5'	(2ppm)					/			8010
HA-3/2	5-5.5'	(2ppm)					/			★ Hold
										★ Hold sample

Relinquished by: (Signature) Steve Moffett 2:10pm 5/7/96
Received by: (Signature)
Date/Time

Relinquished by: (Signature)
Received by Laboratory for analysis: (Signature)
Date/Time 7:20

Special Instructions:

I hereby authorize the performance of the above indicated work.
Steve Moffett

DISTRIBUTION: White with report. Yellow to AL, Pink to Courier

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92668 - 714/771-6900
FAX 714/538-1209

MAY 2 4 1996
RECEIVED

CLIENT

Converse Consultants (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. JW0769-01
REPORTED 05/17/96

SAMPLE IDENTIFICATION: Soil - **HA-1/2**
Project #96-42318-02
Date Collected 05/07/96

BASED ON SAMPLE: As Submitted

RECEIVED 05/10/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Trichloroethene	EPA 8010	05/15/96 RR	0.02 mg/kg
Tetrachloroethene	EPA 8010	05/15/96 RR	0.08 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

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806 North Batavia - Orange, California 92668 - 714/771-6900 FAX 714/538-1209

CLIENT

Converse Consultants (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. JW0769-02

REPORTED 05/17/96

SAMPLE IDENTIFICATION Soil - **HA-2/2**

BASED ON SAMPLE Project #96-42318-02
Date Collected 05/07/96
As Submitted

RECEIVED 05/10/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Trichloroethene	EPA 8010	05/15/96 RR	0.07 mg/kg
Tetrachloroethene	EPA 8010	05/15/96 RR	0.42 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

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ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92668 - 714/771-6900
FAX 714/538-1209

CLIENT

Converse Consultants (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. JW0769-03

REPORTED 05/17/96

SAMPLE IDENTIFICATION: Soil - HA-3/3

BASED ON SAMPLE: Project #96-42318-02
Date Collected 05/07/96
As Submitted

RECEIVED 05/10/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
----	EPA 8010	05/15/96 RR	ND*

*All Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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ASSOCIATED LABORATORIES
QA REPORT FORM - ORGANICS

QC Sample:	JW0818-9	Report Date:	05/22/96
Matrix:	SOIL/SOLID	File Name:	I05146S
Prep. Date:	05/14/96	Analyst:	A.T
Analysis Date:	05/14/96	Report by:	T.T.

Lab ID#'s in Batch : RS0620, JW0767, 818

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS : MG/KG

COMPOUND	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike.Dup	%REC MS	%REC MSD	RPD
Bromodichloromethane	8010	0.000	U	0.10	0.124	0.120	124.0	120.0	3
1,2-Dichloroethane	8010	0.000	U	0.10	0.132	0.127	132.0	127.0	4
Methylene chloride	8010	0.000	U	0.10	0.095	0.094	95.0	94.0	1
Bromoform	8010	0.000	U	0.10	0.126	0.113	126.0	113.0	11
1,1-Dichloroethene	8010	0.000	U	0.10	0.107	0.112	107.0	112.0	5
1,1,1-Trichloroethane	8010	0.000	U	0.10	0.112	0.111	112.0	111.0	1
Tetrachloroethene	8010	0.000	U	0.10	0.134	0.122	134.0	122.0	9
trans-1,3-DCPE	8010	0.000	U	0.10	0.079	0.085	79.0	85.0	7
Chlorobenzene	8010/8020	0.000	U	0.10	0.114	0.086	114.0	86.0	28
1,3-Dichlorobenzene	8010/8020	0.000	U	0.10	0.082	0.082	82.0	82.0	0
1,2-Dichlorobenzene	8010/8020	0.000	U	0.10	0.079	0.083	79.0	83.0	5

%REC LIMITS = 65 - 135
RPD LIMITS = 35

ND = "U" for Not - Detected
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate
%REC-MS & MSD = Percent Recovery of Matrix Spike and Matrix Spike Duplicate

Client: Converse Consultants
Lab No.: JW0769-01, 02, 03
Date: May 17, 1996

PURGEABLE HALOCARBONS-EPA METHOD 8010	LIMITS OF DETECTION (mg/kg)
Chloromethane	0.005
Bromomethane	0.005
Dichlorodifluoromethane	0.005
Vinyl chloride	0.005
Chloroethane	0.005
Methylene chloride	0.005
Trichlorofluoromethane	0.005
1,1-Dichloroethene	0.005
1,1-Dichloroethane	0.005
trans-1,2-Dichloroethene	0.005
Chloroform	0.005
1,2-Dichloroethane	0.005
1,1,1-Trichloroethane	0.005
Carbon tetrachloride	0.005
Bromodichloromethane	0.005
1,2-Dichloropropane	0.005
trans-1,3-Dichloropropene	0.005
Trichloroethene	0.005
Dibromochloromethane	0.005
1,1,2-Trichloroethane	0.005
cis-1,3-Dichloropropene	0.005
2-Chloroethylvinyl ether	0.005
Bromoform	0.005
1,1,2,2-Tetrachloroethane	0.005
Tetrachloroethene	0.005
Chlorobenzene	0.005
1,3-Dichlorobenzene	0.005
1,2-Dichlorobenzene	0.005
1,4-Dichlorobenzene	0.005

JN07769

Previous JN06657-
H1, H2, H3

50th Anniversary

FACSIMILE TRANSMITTAL SHEET

FROM:

☐ CONVERSE CONSULTANTS OC

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15245 Alton Parkway
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Irvine, California 92718
(714) 453-2880

URGENT

To:

Fax Number: (714) [redacted] 538-1209

Company: Associated

Attention: Mike Chapman

From:

Name: Steve MAFFIOLI

Items Faxed: 1

Job Number: 96-42318-02

Date: 5-9-96

Time:

Total number of pages 1 **including cover sheet.**

If you do not receive all pages, please notify us as soon as possible. Phone: (714) 453-2880.

Return messages to FAX Number (714) 453-2888.

Please run samples HA-1/2
for 8010 → HA-2/2
NORMAL TURN AROUND HA-3/3

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Attn: Henry Ames
15245 Alton Parkway
Suite 100
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LAB NO. H19110-01

REPORTED 05/24/96

RECEIVED 05/23/96

SAMPLE IDENTIFICATION: Soil
Sample HA-4/2-2.5'
Project #96-42318-03/Dry Cleaner
Date Collected 05/22/96

BASED ON SAMPLE: As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Trichloroethene	EPA 8010	05/24/96 MR	0.18 mg/kg
Tetrachloroethene	EPA 8010	05/24/96 MR	1.1 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

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LAB NO. H19110-02

REPORTED 05/24/96

RECEIVED 05/23/96

SAMPLE IDENTIFICATION Soil
Sample HA-4/5-5.5'
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE Date Collected 05/22/96
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Trichloroethene	EPA 8010	05/24/96 MR	0.05 mg/kg
Tetrachloroethene	EPA 8010	05/24/96 MR	0.42 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

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LAB NO. H19110-03

REPORTED 05/24/96

SAMPLE Soil

IDENTIFICATION **Sample HA-4/7-7.5'**

BASED ON SAMPLE Project #96-42318-03/Dry Cleaner
Date Collected 05/22/96
As Submitted

RECEIVED 05/23/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Tetrachloroethene	EPA 8010	05/24/96 MR	0.027 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

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LAB NO. H19110-04

REPORTED 05/24/96

RECEIVED 05/23/96

SAMPLE IDENTIFICATION Soil
Sample HA-5/7-7.5'
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE Date Collected 05/22/96
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Tetrachloroethene	EPA 8010	05/24/96 MR	0.064 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

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LAB NO. H19110-05

REPORTED 05/24/96

SAMPLE Soil

IDENTIFICATION **Sample HA-5/9-9.5'**
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE Date Collected 05/22/96
As Submitted

RECEIVED 05/23/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Tetrachloroethene	EPA 8010	05/24/96 MR	0.27 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

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LAB NO. H19110-06

REPORTED 05/24/96

RECEIVED 05/23/96

SAMPLE IDENTIFICATION Soil
Sample HA-6/2-2.5'
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE Date Collected 05/22/96
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Trichloroethene	EPA 8010	05/24/96 MR	0.13 mg/kg
Tetrachloroethene	EPA 8010	05/24/96 MR	0.76 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

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LAB NO. H19110-07

REPORTED 05/24/96

SAMPLE Soil

IDENTIFICATION **Sample HA-6/5.5-6'**
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE Date Collected 05/22/96
As Submitted

RECEIVED 05/23/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Trichloroethene	EPA 8010	05/24/96 MR	0.03 mg/kg
Tetrachloroethene.	EPA 8010	05/24/96 MR	0.29 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

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LAB NO. H19110-08

REPORTED 05/24/96

SAMPLE Soil

IDENTIFICATION **Sample HA-6/7-7.5'**
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE Date Collected 05/22/96
As Submitted

RECEIVED 05/23/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Tetrachloroethene	EPA 8010	05/24/96 MR	0.10 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

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LAB NO. H19110-09
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SAMPLE Soil
IDENTIFICATION **Sample HA-7/2.5-3'**
Project #96-42318-03/Dry Cleaner
BASED ON SAMPLE Date Collected 05/22/96
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Trichloroethene	EPA 8010	05/24/96 MR	0.13 mg/kg
Tetrachloroethene	EPA 8010	05/24/96 MR	1.1 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

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LAB NO. H19110-10

REPORTED 05/24/96

RECEIVED 05/23/96

SAMPLE Soil

IDENTIFICATION **Sample HA-7/5-5.5'**
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE Date Collected 05/22/96
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Trichloroethene	EPA 8010	05/24/96 MR	0.03 mg/kg
Tetrachloroethene	EPA 8010	05/24/96 MR	0.48 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

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LAB NO. H19110-11

REPORTED 05/24/96

SAMPLE Soil

IDENTIFICATION **Sample HA-7/7-7.5'**
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE Date Collected 05/22/96
As Submitted

RECEIVED 05/23/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Tetrachloroethene	EPA 8010	05/24/96 MR	0.07 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

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LAB NO. H19110-12

REPORTED 05/24/96

RECEIVED 05/23/96

SAMPLE IDENTIFICATION Soil
Sample HA-8/7-7.5'
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE Date Collected 05/22/96
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Tetrachloroethene	EPA 8010	05/24/96 MR	0.03 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

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LAB NO. H19110-13

REPORTED 05/24/96

SAMPLE Soil

IDENTIFICATION **Sample HA-8/9-9.5'**
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE Date Collected 05/22/96
As Submitted

RECEIVED 05/23/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Tetrachloroethene	EPA 8010	05/24/96 MR	0.14 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

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LAB NO. H19110-14

REPORTED 05/24/96

RECEIVED 05/23/96

SAMPLE IDENTIFICATION: Soil
Sample HA-9/2-2.5'
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE: Date Collected 05/22/96
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Trichloroethene	EPA 8010	05/24/96 MR	0.64 mg/kg
Tetrachloroethene	EPA 8010	05/24/96 MR	1.2 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

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LAB NO. H19110-15

REPORTED 05/24/96

RECEIVED 05/23/96

SAMPLE IDENTIFICATION Soil
Sample HA-9/5-5.5'
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE Date Collected 05/22/96
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Trichloroethene	EPA 8010	05/24/96 MR	0.03 mg/kg
Tetrachloroethene	EPA 8010	05/24/96 MR	0.05 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

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Suite 100
Irvine, CA 92718

LAB NO. H19110-16

REPORTED 05/24/96

SAMPLE Soil

IDENTIFICATION **Sample HA-9/7-7.5'**
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE Date Collected 05/22/96
As Submitted

RECEIVED 05/23/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
----	EPA 8010	05/24/96 MR	ND*

*All Target Compounds Were None Detected. See Attached List.

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LAB NO. H19110-17

REPORTED 05/24/96

SAMPLE Soil

IDENTIFICATION **Sample HA-9/8.5-9'**
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE Date Collected 05/22/96
As Submitted

RECEIVED 05/23/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
----	EPA 8010	05/24/96 MR	ND*

*All Target Compounds Were None Detected. See Attached List.

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LAB NO. H19110-18

REPORTED 05/24/96

RECEIVED 05/23/96

SAMPLE IDENTIFICATION: Soil
Sample HA-10/2-2.5'
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE: Date Collected 05/22/96
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Trichloroethene	EPA 8010	05/24/96 MR	0.01 mg/kg
Tetrachloroethene	EPA 8010	05/24/96 MR	0.07 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATES LABORATORIES, by:

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LAB NO. H19110-19

REPORTED 05/24/96

RECEIVED 05/23/96

SAMPLE IDENTIFICATION: Soil
Sample HA-10/5-5.5'
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE: Date Collected 05/22/96
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Tetrachloroethene	EPA 8010	05/24/96 MR	0.01 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

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LAB NO. H19110-20

REPORTED 05/24/96

SAMPLE Soil

IDENTIFICATION **Sample HA-10/7-7.5'**
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE Date Collected 05/22/96
As Submitted

RECEIVED 05/23/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
----	EPA 8010	05/24/96 MR	ND*

*All Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

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CLIENT

Converse Consultants (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. H19110-21

REPORTED 05/24/96

SAMPLE Soil

IDENTIFICATION **Sample HA-11/2-2.5'**
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE Date Collected 05/22/96
As Submitted

RECEIVED 05/23/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Tetrachloroethene	EPA 8010	05/24/96 MR	0.04 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

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CLIENT

Converse Consultants (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. H19110-22

REPORTED 05/24/96

RECEIVED 05/23/96

SAMPLE IDENTIFICATION: Soil
Sample HA-11/5-5.5'
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE: Date Collected 05/22/96
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
----	EPA 8010	05/24/96 MR	ND*

*All Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

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CLIENT

Converse Consultants (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. H19110-23

REPORTED 05/24/96

SAMPLE Soil

IDENTIFICATION **Sample HA-11/7.5-8'**
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE Date Collected 05/22/96
As Submitted

RECEIVED 05/23/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Tetrachloroethene	EPA 8010	05/24/96 MR	0.01 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

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Client: Converse Consultants
Lab No.: H19110-01 thru 23
Date: May 24, 1996

PURGEABLE HALOCARBONS-EPA METHOD 8010	LIMITS OF DETECTION (mg/gk)
Chloromethane	0.01
Bromomethane	0.01
Dichlorodifluoromethane	0.01
Vinyl chloride	0.01
Chloroethane	0.01
Methylene chloride	0.01
Trichlorofluoromethane	0.01
1,1-Dichloroethene	0.01
1,1-Dichloroethane	0.01
trans-1,2-Dichloroethene	0.01
Chloroform	0.01
1,2-Dichloroethane	0.01
1,1,1-Trichloroethane	0.01
Carbon tetrachloride	0.01
Bromodichloromethane	0.01
1,2-Dichloropropane	0.01
trans-1,3-Dichloropropene	0.01
Trichloroethene	0.01
Dibromochloromethane	0.01
1,1,2-Trichloroethane	0.01
cis-1,3-Dichloropropene	0.01
2-Chloroethylvinyl ether	0.01
Bromoform	0.01
1,1,2,2-Tetrachloroethane	0.01
Tetrachloroethene	0.01
Chlorobenzene	0.01
1,3-Dichlorobenzene	0.01
1,2-Dichlorobenzene	0.01
1,4-Dichlorobenzene	0.01

ASSOCIATED LABORATORIES
QA REPORT FORM - ORGANICS

QC Sample: H19110-16
Matrix: WATER
Prep. Date: 05/24/96
Analysis Date: 05/24/96

Report Date: 06/07/96
File Name: I05246W
Analyst: R.R.
Report by: T.T.

Lab ID#'s in Batch : H19110, 149

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS : UG/L

COMPOUND	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike.Dup	%REC MS	%REC MSD	RPD
Bromodichloromethane	8010	0.000	U	0.10	0.116	0.121	116.0	121.0	4
1,2-Dichloroethane	8010	0.000	U	0.10	0.135	0.119	135.0	119.0	13
1,1,2-Trichloroethane	8010	0.000	U	0.10	0.075	0.086	75.0	86.0	14
Methylene chloride	8010	0.000	U	0.10	0.101	0.103	101.0	103.0	2
1,2-Dichloropropane	8010	0.000	U	0.10	0.110	0.105	110.0	105.0	5
cis-1,3-DCPE	8010	0.000	U	0.10	0.124	0.119	124.0	119.0	4
trans-1,3-DCPE	8010	0.000	U	0.10	0.122	0.107	122.0	107.0	13
Chlorobenzene	8010/8020	0.000	U	0.10	0.095	0.095	95.0	95.0	0
1,3-Dichlorobenzene	8010/8020	0.000	U	0.10	0.099	0.102	99.0	102.0	3
1,4-Dichlorobenzene	8010/8020	0.000	U	0.10	0.100	0.083	100.0	83.0	19
1,2-Dichlorobenzene	8010/8020	0.000	U	0.10	0.097	0.089	97.0	89.0	9

%REC LIMITS = 65 - 135
RPD LIMITS = 35

ND = "U" for Not - Detected
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate
%REC-MS & MSD = Percent Recovery of Matrix Spike and Matrix Spike Duplicate

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H19110

CHAIN OF CUSTODY RECORD

Date 5/23/96 Page 1 of 3

CLIENT Converse Environmental West
ADDRESS 15245 Alton Parkway Ste 100
Irvine, CA 92718
PROJECT NAME 96-42318-03 Dry cleaner
PROJECT MANAGER Henry Ames
PHONE NUMBER 714 453-2080
SAMPLERS: (Signature) Henry B. Ames for Kevin Tolin

Samples Intact Yes ✓ No ___
County Seals Intact Yes ___ No ___ N/A
Sample Ambient ___ Cooled ✓ Frozen ___
Same Day ___ 24 Hr. ✓
Regular ___ 48 Hr. ___

	SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE: WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED	OVI
1	1	HA-4 / 2-2.5' ✓	5/22/96				X	1	PCE/TCE	EPA 8010	5
2	2	HA-4 / 5-5.5' ✓					X	1		EPA 8010	1
3	3	HA-4 / 7-7.5' ✓					X	1		EPA 8010	1
	4 1	HA-4 / 9-9.5' ✓					X	1		Hold	1
	5 2	HA-4 / 10-10.5' ✓					X	1		Hold	1
	6 3	HA-5 / 2-2.5' ✓					X	1		Hold	1
	7 4	HA-5 / 5-5.5' ✓					X	1		Hold	0
4	8	HA-5 / 7-7.5' ✓					X	1		EPA 8010	6
5	9	HA-5 / 9-9.5' ✓					X	1		EPA 8010	0
6	10	HA-6 / 2-2.5' ✓					X	1		EPA 8010	7
7	11	HA-6 / 5.5-6' ✓					X	1		EPA 8010	2
8	12	HA-6 / 7-7.5' ✓					X	1		EPA 8010	0

Relinquished by: (Signature) Henry B. Ames
Received by: (Signature) Pam Tovey
Date/Time 5/23/96 9AM

Relinquished by: (Signature) Pam Tovey
Received by Laboratory for analysis: (Signature)
Date/Time 5/23/96 0945

Special Instructions:

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CHAIN OF CUSTODY RECORD

Date 5/23/96 Page 2 of 3

CLIENT ENVIRONMENTAL Converse ~~Consultants~~ West
ADDRESS 15245 Alton Parkway Ste 100
Irvine, CA 92718
PROJECT NAME 96-42318-03 Dry cleaner
PROJECT MANAGER Henry Ames
PHONE NUMBER 714 453-2880
SAMPLERS: (Signature) Henry B. Ames for Kevin Tolin

Samples Intact Yes ✓ No ___
County Seals Intact Yes ___ No ___ N/A
Sample Ambient ___ Cooled ✓ Frozen ___
Same Day ___ 24 Hr. ✓
Regular ___ 48 Hr. ___

	SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE: WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED	OV
	13	HA-6 / 9-9.5' ✓	5/22/96				X	1	PCE TCE	Hold	0
9	14	HA-7 / 2.5-3' ✓					X	1		EPA 8010	5
10	15	HA-7 / 5-5.5' ✓					X	1		EPA 8010	2
11	16	HA-7 / 7-7.5' ✓					X	1		EPA 8010	1
	17	HA-7 / 9-9.5' ✓					X	1		Hold	3
	18	HA-8 / 2-2.5' ✓					X	1		Hold	8
	19	HA-8 / 5-5.5' ✓					X	1		Hold	2
12	20	HA-8 / 7-7.5' ✓					X	1		EPA 8010	1
13	21	HA-8 / 9-9.5' ✓					X	1		EPA 8010	0
14	22	HA-9 / 2-2.5' ✓					X	1		EPA 8010	15
15	23	HA-9 / 5-5.5'					X	1		EPA 8010	1
16	24	HA-9 / 7-7.5' ✓					X	1		EPA 8010	0

Relinquished by: (Signature) Henry B. Ames	Received by: (Signature) Pam Forsythe	Date/Time 5/23/96 9AM
Relinquished by: (Signature) Pam Forsythe	Received by Laboratory for analysis: (Signature)	Date/Time 5/23/96 0945

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CHAIN OF CUSTODY RECORD

Date 5/23/96 Page 3 of 3

CLIENT Converse Environmental West
ADDRESS 15245 Alton Parkway Ste 100
Irvine, CA 92718
PROJECT NAME 96-42318-03 Dry cleaner
PROJECT MANAGER Henry Ames
PHONE NUMBER 714 453-2880
SAMPLERS: (Signature) Henry B. Ames for Kevin Tolin

Samples Intact Yes ✓ No ___
County Seals Intact Yes ___ No N/A
Sample Ambient ___ Cooled ✓ Frozen ___
Same Day ___ 24 Hr. ✓
Regular ___ 48 Hr. ___

	SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE: WATER	SAMPLE TYPE: AIR	SAMPLE TYPE: SOLID	NO. OF CNTNRS	SUSP. CONTAM	TESTS REQUIRED	ON
17	25	HA-9 / 8.5-9' ✓	5/22/96				X	1	PCE/TCE	EPA 8010	C
18	26	HA-10 / 2-2.5' ✓					X	1			O
19	27	HA-10 / 5-5.5' ✓					X	1			O
20	28	HA-10 / 7-7.5' ✓					X	1			1
21	29	HA-11 / 2-2.5' ✓					X	1			2
22	30	HA-11 / 5-5.5' ✓					X	1			1
23	31	HA-11 / 7.5-8' ✓					X	1			0

Relinquished by: (Signature) Henry B. Ames
Received by: (Signature) Pam Fossey
Date/Time 5/23/96 9AM

Relinquished by: (Signature) Pam Fossey
Received by Laboratory for analysis: (Signature) R. S...
Date/Time 5/23/96 0945

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ASSOCIATED LABORATORIES
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CLIENT

Converse Consultants (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. H19263-01
REPORTED 05/29/96

SAMPLE IDENTIFICATION Soil - **HA-4/9-9.5'**
Project #96-42318-03/Dry Cleaner

RECEIVED 05/28/96

BASED ON SAMPLE As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Tetrachloroethene	EPA 8010	05/29/96 AS	0.057 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

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CLIENT

Converse Consultants (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. H19263-02

REPORTED 05/29/96

SAMPLE IDENTIFICATION: Soil - **HA-4/10-10.5'**
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE: As Submitted

RECEIVED 05/28/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Tetrachloroethene	EPA 8010	05/29/96 AS	0.024 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

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CLIENT

Converse Consultants (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. H19263-03

REPORTED 05/29/96

RECEIVED 05/28/96

SAMPLE IDENTIFICATION: Soil - **HA-5/2-2.5'**
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE: As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Trichloroethene	EPA 8010	05/29/96 AS	0.14 mg/kg
Tetrachloroethene	EPA 8010	05/29/96 AS	2.2 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
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CLIENT

Converse Consultants (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. H19263-04
REPORTED 05/29/96

SAMPLE IDENTIFICATION: Soil - **HA-6/9-9.5'**
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE: As Submitted

RECEIVED 05/28/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
----	EPA 8010	05/29/96 AS	ND*

*All Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

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CLIENT

Converse Consultants (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. H19263-05

REPORTED 05/29/96

SAMPLE IDENTIFICATION: Soil - **HA-7/9-9.5'**
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE: As Submitted

RECEIVED 05/28/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
----	EPA 8010	05/29/96 AS	ND*

*All Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Bellare, Ph.D.
Vice President

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CLIENT

Converse Consultants (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. H19263-06

REPORTED 05/29/96

SAMPLE IDENTIFICATION Soil - **HA-8/2-2.5'**
Project #96-42318-03/Dry Cleaner

BASED ON SAMPLE As Submitted

RECEIVED 05/28/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Trichloroethene	EPA 8010	05/29/96 AS	0.14 mg/kg
Tetrachloroethene	EPA 8010	05/29/96 AS	1.4 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

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Client: Converse Consultants
Lab No.: H19263-01 thru 06
Date: May 29, 1996

PURGEABLE HALOCARBONS-EPA METHOD 8010	LIMITS OF DETECTION (mg/kg)
Chloromethane	0.01
Bromomethane	0.01
Dichlorodifluoromethane	0.01
Vinyl chloride	0.01
Chloroethane	0.01
Methylene chloride	0.01
Trichlorofluoromethane	0.01
1,1-Dichloroethene	0.01
1,1-Dichloroethane	0.01
trans-1,2-Dichloroethene	0.01
Chloroform	0.01
1,2-Dichloroethane	0.01
1,1,1-Trichloroethane	0.01
Carbon tetrachloride	0.01
Bromodichloromethane	0.01
1,2-Dichloropropane	0.01
trans-1,3-Dichloropropene	0.01
Trichloroethene	0.01
Dibromochloromethane	0.01
1,1,2-Trichloroethane	0.01
cis-1,3-Dichloropropene	0.01
2-Chloroethylvinyl ether	0.01
Bromoform	0.01
1,1,2,2-Tetrachloroethane	0.01
Tetrachloroethene	0.01
Chlorobenzene	0.01
1,3-Dichlorobenzene	0.01
1,2-Dichlorobenzene	0.01
1,4-Dichlorobenzene	0.01

ASSOCIATED LABORATORIES

QA REPORT FORM - ORGANICS

QC Sample: H19315
Matrix: SOIL
Analysis Date: 05/29/96

Report Date: 05/31/96
File Name : M05296S
Analyst: AS
Report by : T.T.

LAB ID#'s in Batch: H19315, 263

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = UG/KG

Test	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	8010	0.00	U	50.00	53.00	59.00	106.0	118.0	10.7	22	59-172
Trichloroethene	8010	0.00	U	50.00	45.00	48.00	90.0	96.0	6.5	24	62-137
Benzene	8010	0.00	U	50.00	57.00	57.00	114.0	114.0	0.0	21	66-142
Toluene	8010	0.00	U	50.00	43.00	43.00	86.0	86.0	0.0	21	59-139
Chlorobenzene	8010	0.00	U	50.00	53.00	55.00	106.0	110.0	3.7	21	60-133

ND = "U" - Not Detected
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Dup
%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

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Converse Consultants Orange County

Celebrating 50 Years of Dedication in Engineering and Environmental Sciences

May 24, 1996

Mr. Mike Chapman
Associated Laboratories
806 N. Batavia
Orange, CA 92668

Subject: **Request for Additional Analyses**
Associated Lab No. H19110, reported May 24, 1996
Converse Project No. 96-42318-03

Dear Mr. Chapman:

Converse Consultants Orange County requests that the following soil samples, delivered to your laboratory on May 23, 1996 (placed on hold) be analyzed in accordance with EPA Method 8010, on a 24 hour turnaround.

Sample No.	Location/Description
4	HA-4/9-9.5 feet
5	HA-4/10-10.5 feet
6	HA-5/2-2.5 feet
13	HA-6/9-9.5 feet
17	HA-7/9-9.5 feet
18	HA-8/2-2.5 feet

If you have any questions please call me at (714) 453-2880.

Sincerely,

CONVERSE CONSULTANTS ORANGE COUNTY

Henry B. Ames
Senior Geologist

Converse Consultants Orange County
15245 Alton Parkway, Suite 100
Irvine, California 92718-2307

Telephone: (714) 453-2880
Facsimile: (714) 453-2888

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CLIENT

Converse Consultants (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. H19149-01

REPORTED 05/29/96

SAMPLE IDENTIFICATION: Soil - **HA-12/2-2.5**

Project #96-42318-03/Dry Cleaner
Date Collected 05/23/96

BASED ON SAMPLE: As Submitted

RECEIVED 05/23/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Tetrachloroethene	EPA 8010	05/24/96 MR	1.0 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical •
Microbiological •
Environmental •

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92668 - 714/771-6900 FAX 714/538-1209

CLIENT

Converse Consultants (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. H19149-02

REPORTED 05/29/96

SAMPLE IDENTIFICATION Soil - **HA-12/5-5.5**

RECEIVED 05/23/96

BASED ON SAMPLE
Project #96-42318-03/Dry Cleaner
Date Collected 05/23/96
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Trichloroethene	EPA 8010	05/24/96 MR	0.15 mg/kg
Tetrachloroethene	EPA 8010	05/24/96 MR	0.70 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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806 North Batavia - Orange, California 92668 - 714/771-6900 FAX 714/538-1209

CLIENT

Converse Consultants (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. H19149-03

REPORTED 05/29/96

SAMPLE IDENTIFICATION Soil - **HA-12/7-7.5**

BASED ON SAMPLE Project #96-42318-03/Dry Cleaner
Date Collected 05/23/96
As Submitted

RECEIVED 05/23/96

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
----	EPA 8010	05/24/96 MR	ND*

*All Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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806 North Batavia - Orange, California 92668 - 714/771-6900
FAX 714/538-1209

CLIENT

Converse Consultants (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. H19149-04

REPORTED 05/29/96

RECEIVED 05/23/96

SAMPLE IDENTIFICATION: Soil - **HA-12/9-9.5**

BASED ON SAMPLE: Project #96-42318-03/Dry Cleaner
Date Collected 05/23/96
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
----	EPA 8010	05/24/96 MR	ND*

*All Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical •
Microbiological •
Environmental •

M

Client: Converse Consultants
Lab No.: H19149-01 thru 04
Date: May 29, 1996

PURGEABLE HALOCARBONS-EPA METHOD 8010	LIMITS OF DETECTION (mg/kg)
Chloromethane	0.01
Bromomethane	0.01
Dichlorodifluoromethane	0.01
Vinyl chloride	0.01
Chloroethane	0.01
Methylene chloride	0.01
Trichlorofluoromethane	0.01
1,1-Dichloroethene	0.01
1,1-Dichloroethane	0.01
trans-1,2-Dichloroethene	0.01
Chloroform	0.01
1,2-Dichloroethane	0.01
1,1,1-Trichloroethane	0.01
Carbon tetrachloride	0.01
Bromodichloromethane	0.01
1,2-Dichloropropane	0.01
trans-1,3-Dichloropropene	0.01
Trichloroethene	0.01
Dibromochloromethane	0.01
1,1,2-Trichloroethane	0.01
cis-1,3-Dichloropropene	0.01
2-Chloroethylvinyl ether	0.01
Bromoform	0.01
1,1,2,2-Tetrachloroethane	0.01
Tetrachloroethene	0.01
Chlorobenzene	0.01
1,3-Dichlorobenzene	0.01
1,2-Dichlorobenzene	0.01
1,4-Dichlorobenzene	0.01

ASSOCIATED LABORATORIES
QA REPORT FORM - ORGANICS

QC Sample: H19110-16
Matrix: WATER
Prep. Date: 05/24/96
Analysis Date: 05/24/96

Report Date: 06/07/96
File Name: I05246W
Analyst: R.R.
Report by: T.T.

Lab ID#'s in Batch : H19110, 149

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS : UG/L

COMPOUND	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike.Dup	%REC MS	%REC MSD	RPD
Bromodichloromethane	8010	0.000	U	0.10	0.116	0.121	116.0	121.0	4
1,2-Dichloroethane	8010	0.000	U	0.10	0.135	0.119	135.0	119.0	13
1,2-Trichloroethane	8010	0.000	U	0.10	0.075	0.086	75.0	86.0	14
Methylene chloride	8010	0.000	U	0.10	0.101	0.103	101.0	103.0	2
1,2-Dichloropropane	8010	0.000	U	0.10	0.110	0.105	110.0	105.0	5
cis-1,3-DCPE	8010	0.000	U	0.10	0.124	0.119	124.0	119.0	4
trans-1,3-DCPE	8010	0.000	U	0.10	0.122	0.107	122.0	107.0	13
Chlorobenzene	8010/8020	0.000	U	0.10	0.095	0.095	95.0	95.0	0
1,3-Dichlorobenzene	8010/8020	0.000	U	0.10	0.099	0.102	99.0	102.0	3
1,4-Dichlorobenzene	8010/8020	0.000	U	0.10	0.100	0.083	100.0	83.0	19
1,2-Dichlorobenzene	8010/8020	0.000	U	0.10	0.097	0.089	97.0	89.0	9

%REC LIMITS = 65 - 135
RPD LIMITS = 35

ND = "U" for Not - Detected
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate
%REC-MS & MSD = Percent Recovery of Matrix Spike and Matrix Spike Duplicate

ASSOCIATED LABORATORIES
806 N. Batavia • Orange, CA 92668
(714) 771-6900 • FAX: (714) 538-1209

H1914 9

CHAIN OF CUSTODY RECORD

Date 5/23/96 Page 1 of 1

CLIENT Converse Environmental West
ADDRESS 15245 Alton Parkway Ste 100
Irvine, CA 92718
PROJECT NAME 96-42318-03 Dry cleaner
PROJECT MANAGER Henry Ames
PHONE NUMBER 714 453-2880
SAMPLERS: (Signature) Henry B. Ames

Samples Intact Yes ✓ No ___ N/A
County Seals Intact Yes ___ No ___ N/A
Sample Ambient ___ Cooled ✓ Frozen ___
Same Day ___ 24 Hr. ✓
Regular ___ 48 Hr. ___

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE: WATER	SAMPLE TYPE: AIR	SAMPLE TYPE: SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
1	HA-12/2-2.5	5/23/96				X	1	PCE/TCE	EPA 8010
2	HA-12/5-5.5	↓				X	1	↓	
3	HA-12/7-7.5					X	1		
4	HA-T2/9-9.5					X	1		

Relinquished by: (Signature) Henry B. Ames
Received by: (Signature) Pam Forsythe
Date/Time 5/23/96 4:3 4PM
I hereby authorize the performance of the above indicated work.

Relinquished by: (Signature) Pam Forsythe
Received by Laboratory for analysis: (Signature)
Date/Time 5/23/96 1700

Special Instructions:

DISTRIBUTION: White with report. Yellow to AL, Pink to Courier

RECEIVED
AUG 12 1996
HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH

Converse Consultants

Over 50 Years of Dedication in Geotechnical Engineering and Environmental Sciences

February 5, 2002

Mr. Luis Lodrigueza
Orange County Health Care Agency
2009 E. Edinger Avenue
Santa Ana, California 92705

Subject: **Work Plan for Additional Site Characterization**
Crown Cleaner (existing dry cleaner facility)
18583 Brookhurst Street
Fountain Valley, California
O.C.H.C.A. Case # 96IC31
Converse Project No. 00-42-703-02

Dear Mr. Lodrigueza:

Converse Consultants (Converse), on behalf of Donahue Schriber, is pleased to present this Work Plan for an additional site characterization at the Crown Cleaners facility located in the City of Fountain Valley, Orange County, California. See Figure 1 for Site Location.

BACKGROUND

Investigative tasks (consisting of soil sampling, construction of groundwater monitoring wells) have been on going at this site since 1996, refer to referenced reports. This Work Plan presents our approach for additional characterization to clarify the extent of PCE in soil and groundwater.

References:

Converse Consultants, August 6, 1996, "*Summary Report – Site Investigation Results, Crown Cleaners, 18583 Brookhurst Street, Fountain Valley, California.*"

Converse Consultants, February 7, 1997, *"Additional Site Investigation Report, Crown Cleaners, 18583 Brookhurst Street, Fountain Valley, California."*

Converse Consultants, May 18, 1998, *"Additional Site Investigation Report, Crown Cleaners, 18583 Brookhurst Street, Fountain Valley, California."*

Converse Consultants, July 21, 1999, *"Site Exploration and Groundwater Monitoring Well Installation, Crown Cleaners, 18583 Brookhurst Street, Fountain Valley, California."*

OBJECTIVE

The objective of the proposed scope of services is to establish the lateral and vertical extent of dry cleaning solvents (PCE) in the shallow soils; and to construct additional groundwater monitoring wells outside the building. Additionally, Converse will conduct quarterly groundwater monitoring of the three (3) existing wells within the building along with the three new wells and the existing well MW-1 outside the building for four quarters. The wells inside the dry cleaners

(MW-2 thru MW-4) may be properly abandon due to future remediation and will be sampled only in the quarters prior to remediation.

SCOPE OF SERVICES

For planning purposes, the Converse scope of services will generally consist of the following tasks:

- Conduct quarterly groundwater monitoring program of existing wells MW-1 through MW-4. MW-2 thru MW-4 may be abandoned during remediation at a future date and will be sampled only during quarters prior to remediation. Anticipated number of quarters of sampling is two (2) at this time for MW-2 thru MW-4.
- Advance nine (9) direct push probes to obtain soil samples for laboratory analyses. Three (3) of the probes will be located within the Lucky's Supermarket, which adjoins the site to the north; two probes will be located in the adjacent suite south of the Crown Cleaners; and the remaining probes will be located within the Cleaners. See Figure 2 for Probe Locations.
- A grab sample of encountered groundwater will be obtained, using a hydro-punch apparatus, from five (5) of the nine (9) probes. Grab samples will be taken from: two (2) probes located in the Lucky's store; from the two (2) probes located in the adjacent suite south of the Cleaners; and from one (1) probe located in Crown Cleaners. Refer to Figure 2 for locations of grab samples.
- Obtain permits to construct three (3) groundwater-monitoring wells.
- Construct, develop, and sample three (3) groundwater-monitoring wells outside, and to the east and south of, the Crown Cleaner building. See Figure 3 for location of groundwater wells. See Figure 4 for well construction diagram. These wells will remain (in addition to MW1) during and after any future remediation and will only be abandoned when a "no further action letter" is issued by the overseeing agency. Anticipated number of quarters to be sampled is four (4) quarters at this time.
- Submit soil samples and groundwater samples for chemical analyses in accordance with EPA Method 8260 for purgeable halocarbons.
- Prepare and submit a report presenting results of the field investigation, monitoring well construction, and the analytical analyses. The report will include our conclusions and recommendations.

TECHNICAL APPROACH

1.0 Project Set-Up

Converse staff will accomplish the following tasks prior to beginning field activities for the continued site characterization:

- Preparation of a site-specific Health and Safety Plan. This Plan is found attached to this Work Plan in Appendix A.

- Obtain permits from OCHCA for construction of the planned groundwater monitoring wells. Refer to Figure 4 for typical well construction details.
- Mark locations for probes, for soil sampling inside buildings, and borings, for monitoring wells outside building. Arrange for and implement geophysical survey to identify subsurface obstructions for probes and borings locations. Notify Underground Service Alert prior to field investigation.
- Notify OCHCA at least 48 hours in advance of fieldwork.
- Arrange for and schedule subcontractors and Converse staff for field investigation tasks.

2.0 Soil Sampling

Soil samples will be collected from probes advanced by a limited access, direct push drilling rig at nine (9) locations (refer to Figure 2 -Location of Probes). Three (3) probes will be advanced inside the Lucky's store, two (2) probes will be advanced inside the building adjacent, and to the south, of Crown Cleaners, and four (4) probes will be advanced inside Crown Cleaners. Soil samples from each boring will be collected at 2, 5, 10 and 15 feet below ground surface (bgs). Samples will be obtained at the planned depths by the rig pushing an acetate liner into the undisturbed soils. The liner, and retained sample, will be retrieved from the probe. For the planned sampling depth, the liner and sample will be cut from the liner. Sub-samples will be extracted from the primary sample and handled per EPA Method 5035. The remaining sample in the liner will have a Teflon sheet will be placed over each end of the sample, and the ends of the sample covered with plastic caps. The samples shall be labeled for identification, placed in an ice-cooled chest for transport, under chain-of-custody documentation, to a State certified, analytical laboratory. Duplicate samples will also be collected, handled, and transported in the same manner.

Some of the soil sample remaining in the liner will be extracted and placed into a Ziploc bag. This sample will be used to field screen the headspace vapors with an OVA or PID monitor. Our site engineer, or geologist, will also use these samples to describe the soil lithology and classify the soils utilizing the USCS. Data of headspace measurements and soil's lithology and classification will be recorded on a Boring Log for each probe.

After soil sampling is completed in five (5) of the probes (2 probes advanced in the Lucky's store, 2 probes advanced in the building south of the Cleaners, and in one (1) probe inside the Cleaners) the drill rod will be pulled from the probe and a hydro-punch apparatus attached to the end of the rod. The rod, with the hydro-punch, will be lowered back into the probe and a grab sample of the groundwater will be obtained in the hydro-punch for laboratory analyses. The collected water samples will be placed in EPA approved bottles; the filled bottles will be handled and transported to the laboratory with EPA protocol.

3.0 Construction and Sampling of Groundwater Monitoring Wells

Three (3) groundwater-monitoring wells are to be constructed, developed, and sampled as part of the continued site characterization. The wells are to be constructed outside of the Crown Cleaners building; a well is to be placed at each side of the building to the east, southeast, and south.

A truck-mounted drill, utilizing hollow-stem augers (HSA), will advance the borings for the wells to twenty (20) feet bgs. As these borings are advanced, soil samples will be collected at 2, 5, 10, and 15 feet bgs for archiving at the analytical laboratory. (The soil samples will be retained in the sleeves in which they were collected; and handled/transported to the laboratory by EPA protocol described for the soil samples taken from the probes.) When each boring has reached planned depth, the HSA will be left in place, and 2" inner-diameter, PVC, well casing, with a screw able bottom cap, will be installed to the bore through the augers.

For each well, the lower ten (10) feet will be constructed with casing having 0.02-inch wide slots, and the upper ten (10) feet will be constructed with blank casing. The augers will then be slowly pulled from the bore as an appropriately graded sand pack is placed in the annular between the casing and boring wall through the length of the slotted casing, and to a level two (2) feet above the top of the casing perforations. Two (2) feet of bentonite pellets are to be placed from the top of the sand pack to form a seal to the lower part of the well, and cement slurry is to be placed from the top of the bentonite to the ground surface. A slip-on cap will be set at the top of the casing, and a well box, with a metal plate set flush with the ground surface, will be installed to protect the top of the well.

After construction, each well will be developed by a surging block passing through the well casing, and bailing of waters from the well. Surging and bailing will continue until water indicator parameters of temperature, salinity, specific conductance, pH, and water clarity are stable.

After each well's development, a groundwater sample will be collected using a disposable bailer. The groundwater sample will be placed in EPA approved glass containers, labeled, and placed in a cooler with ice for transport, under chain-of-custody documentation, to a state certified, analytical laboratory.

Several days after obtaining the groundwater samples, and having allowed the groundwater of the vicinity to equilibrate, the depth to the groundwater level at each new well and the previous wells MW-1 through MW–4 will be measured. Additionally, a licensed land surveyor will establish the elevation for the top of the casing for the three (3) new wells and well MW-1. With this data, groundwater gradient and flow direction will be computed for the site of this study.

4.0 Investigative Waste Disposal

Our scope of services does not include treatment or disposal of contaminated or clean soil/water that may be encountered during drilling. The drill cuttings and well development water generated during the proposed work will be placed into 55-gallon drums for proper temporary on-site storage. Ultimate disposition of this stored soil and water will depend on the amount, contents, and results of laboratory analyses of samples.

5.0 Laboratory Analyses

The soil samples will be collected in accordance with EPA Method 5035 and analyzed in accordance with EPA Method 8260 for PCE. The groundwater samples will be analyzed in accordance with EPA Method 8260 for PCE.

include other halogenated VOCs, DCE grp, TCE, DCE

6.0 Report

Converse will prepare a report to include field activities, data, and findings; results of the laboratory analyses, and survey information. The report will also provide conclusions/recommendations regarding the soil and groundwater conditions at the site. Also presented will be a monitoring program for the groundwater underlying the site.

SCHEDULE

Converse will schedule the continuation of characterization tasks upon receipt of your written approval of this Work Plan. Converse will notify OCHCA at least 48 hours prior to initiating field activities at the site. The summary report will be available within approximately 20 working days after receiving the laboratory analytical report for the soil and groundwater samples.

If you have any questions concerning this Work Plan, please contact either William Ragsdale at (714) 444-9660 or David Bramwell at (626) 930-1200.

Sincerely,

CONVERSE CONSULTANTS

William Ragsdale
Senior Staff Environmental Scientist

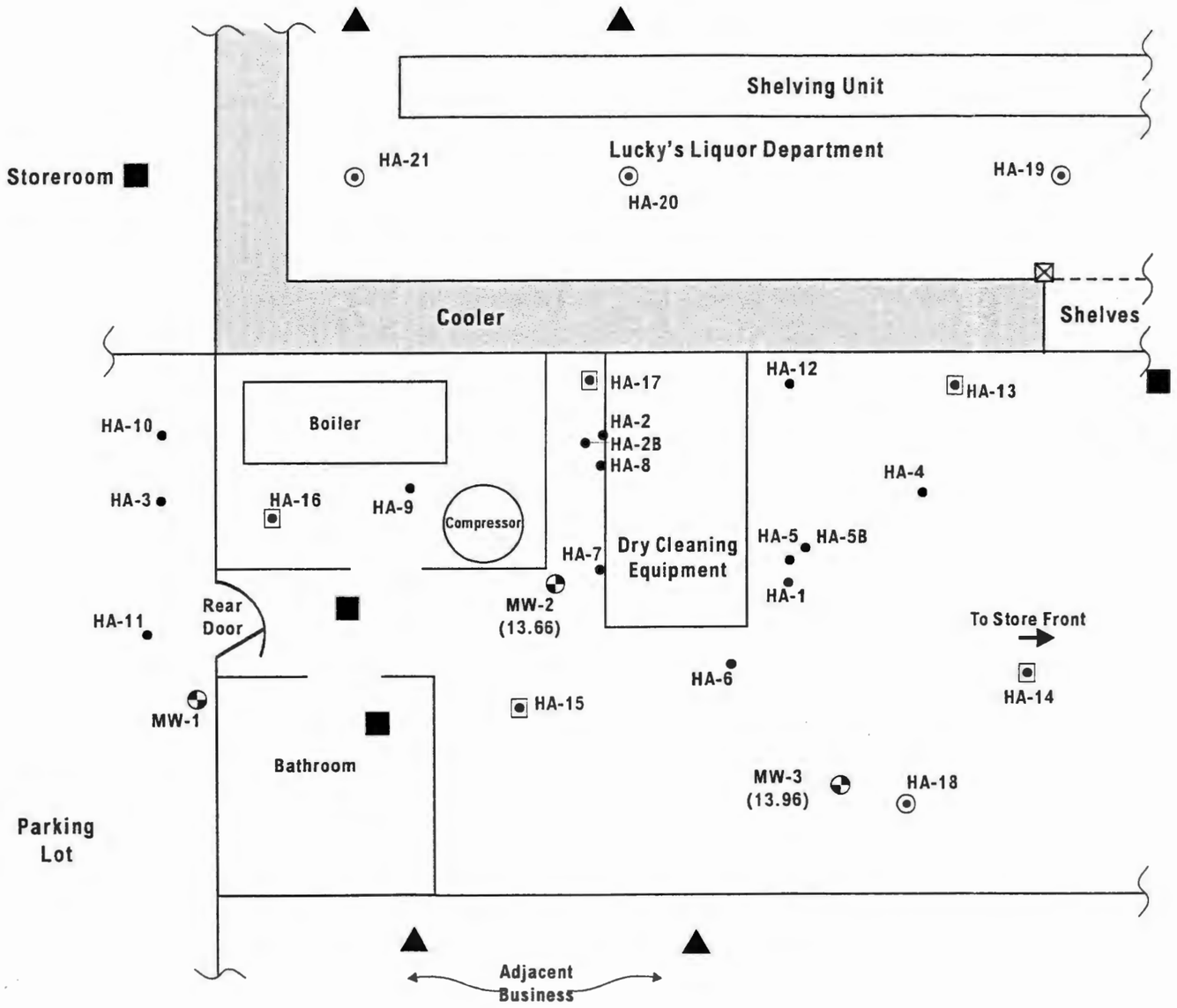
David D. Bramwell, RG
Senior Geologist

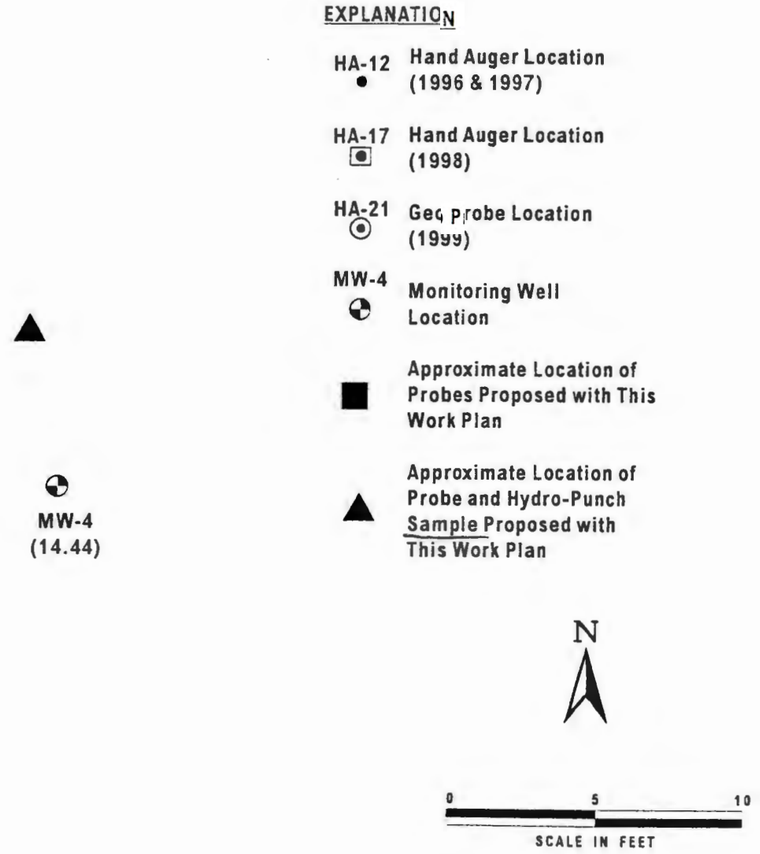
Attachments:

Figure No. 1 - Site Location Map
Figure No. 2 – Location of Probes
Figure No. 3 – Shopping Center Site Plan (monitoring well locations)
Figure No. 4 – Typical Well Construction Design
Appendix A – Health and Safety Plan

Dist: 2/addressee
1/Mr. Henry A. Avila
Donahue Schriber Realty Group
2200 West Florida Avenue, #300
Hemet, California 92545

FIGURES



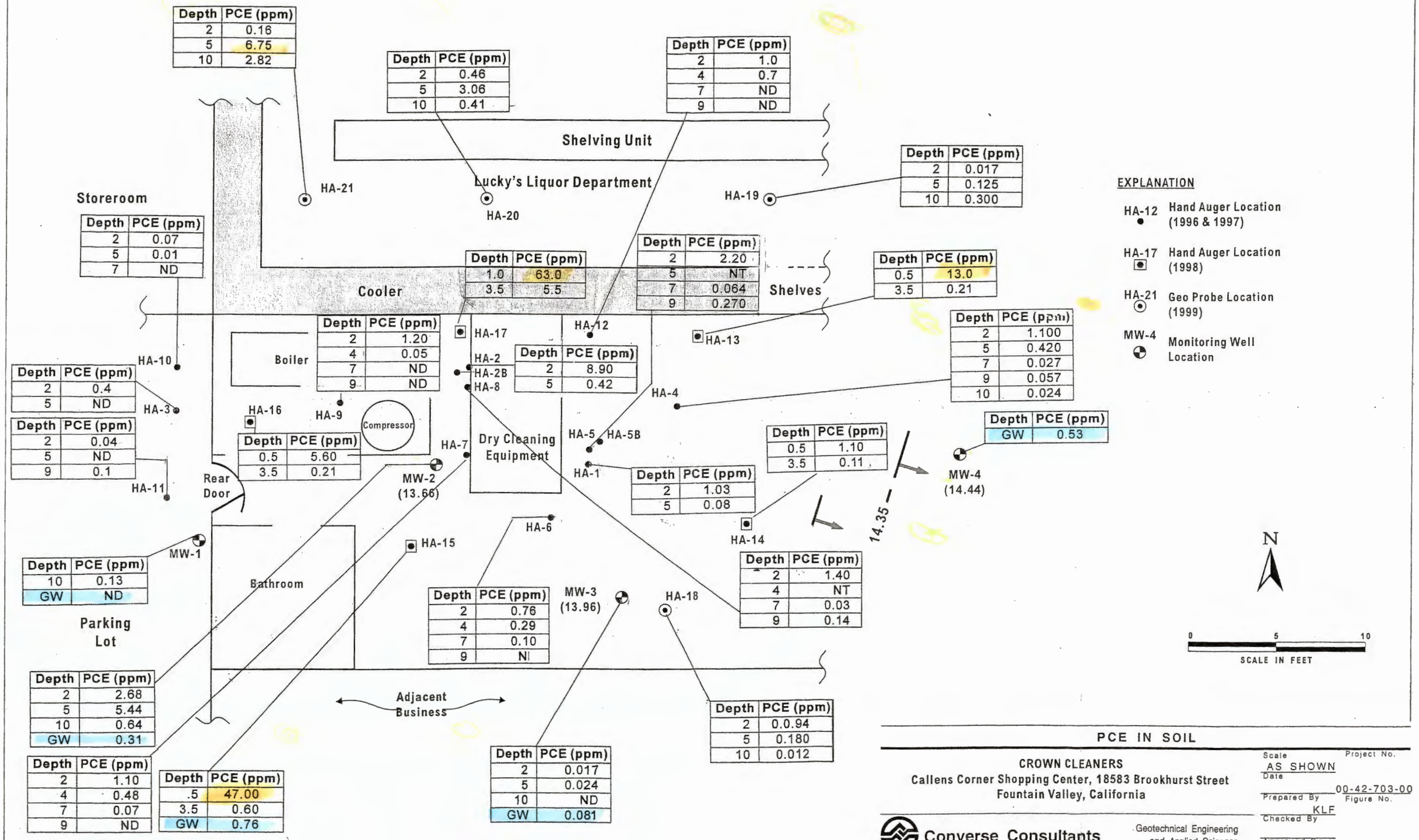


LOCATION OF PROBES

CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Converse Consultants — Geotechnical Engineering and Applied Sciences

Scale	AS SHOWN
Project No.	00-42-703-02
Date	1/02
Figure No.	2
Prepared By	KLF
Checked By	
Approved By	



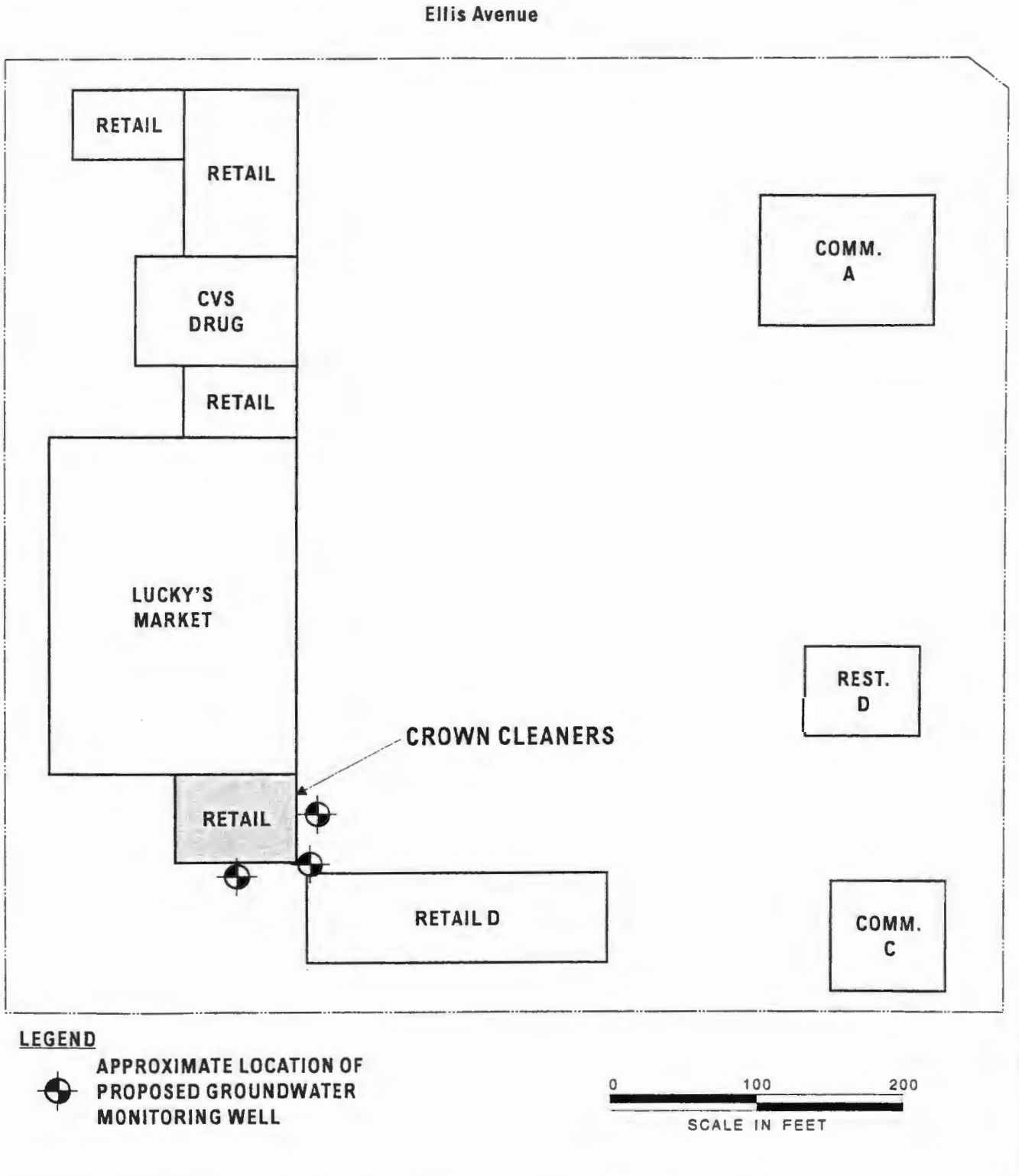
Approved by

PCE IN SOIL

CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Converse Consultants
Geotechnical Engineering and Applied Sciences

Scale: AS SHOWN
Date:
Prepared By: KLF
Checked By:
Approved By:
Project No.: 00-42-703-00
Figure No.:



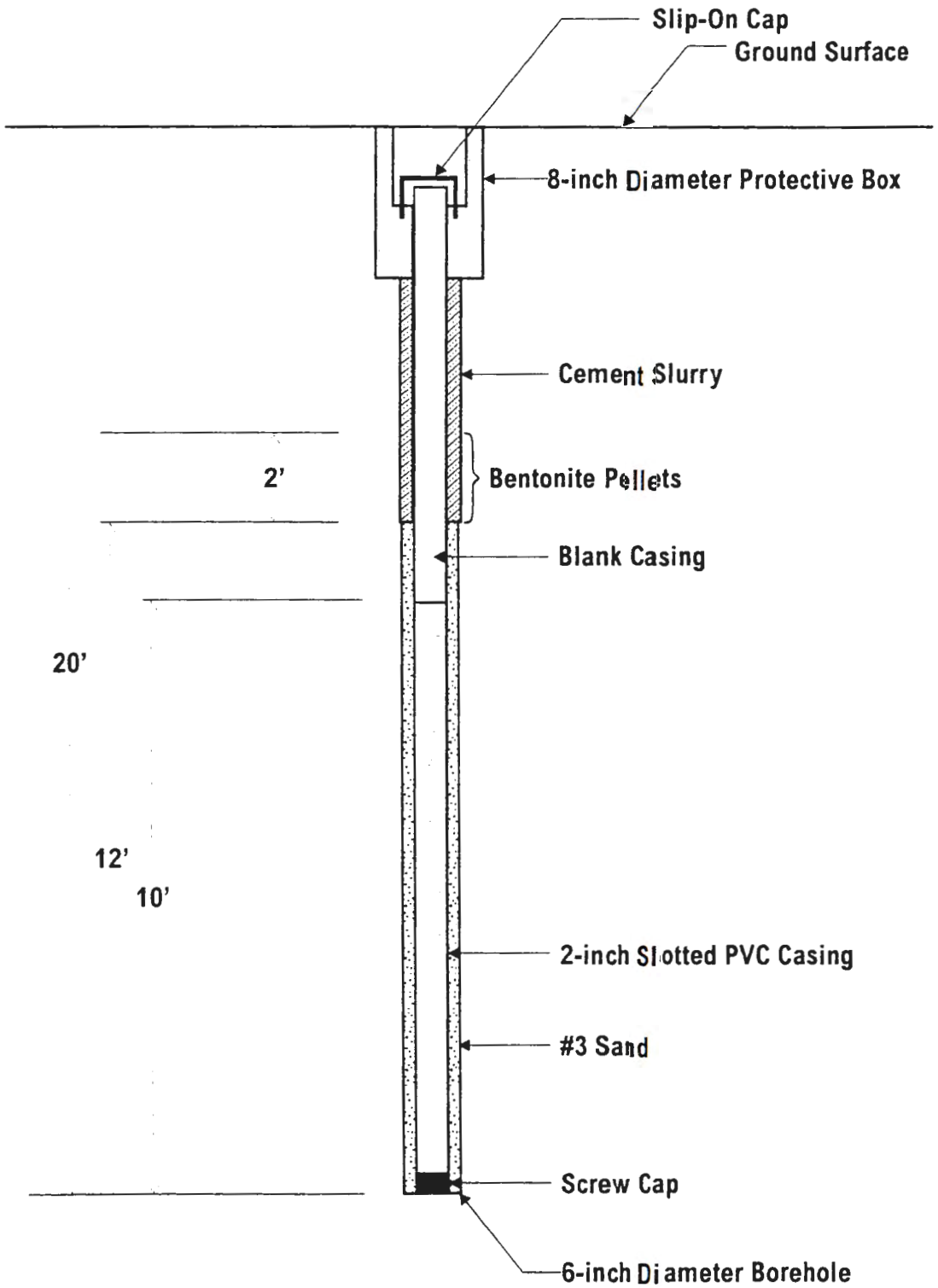
SHOPPING CENTER SITE PLAN

CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Project No.
00-42-703-02

Figure No.
3

Converse Consultants Geotechnical Engineering and Applied Sciences



TYPICAL WELL CONSTRUCTION DIAGRAM

CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Project No.
00-42-703-02

Figure No.
4

Converse Consultants Geotechnical Engineering and Applied Sciences

APPENDIX A

SITE SAFETY AND HEALTH PLAN

CLIENT:.....Donahue Schriber Reality Group
CLIENT CONTACT:.....Mr. Henry Avila
PHONE #:..... (909) 652-7771
PROJECT NO:.....00-42703-02

SITE NAME:..... Crown Cleaners
SITE ADDRESS:.....18583 Brookhurst Street
Fountain Valley, California
SITE CONTACT:..... William Ragsdale
PHONE #:.....714-444-9660
Cell #: 909-264-5145
THOM BROS CO-OR:..... Orange County Page
DATE:.....February 5, 2002
SSHP EXPIRATION: .....March 31, 2002

PRINCIPAL: ..... Norman Eke
PROJECT MANAGER:..... William Ragsdale
SUBCONTRACTOR:..... Strong Arm Environmental Services & A n R Drilling Co.

DISCLAIMER

This Site Safety and Health Plan has been written for the use of Converse Consultants (Converse) and its employees. It may also be used as a guidance document by properly trained and experienced Converse subcontractors. However, Converse does not guarantee the health or safety of any person entering this site.

Due to the nature of this site and the activity occurring thereon, it is not possible to discover, evaluate, and provide protection for all possible hazards which may be encountered. Strict adherence to the health and safety guidelines set forth herein will reduce, but not eliminate, the potential for injury on the site. The health and safety guidelines in this plan were prepared specifically for this site and should not be used on any other site without prior research by trained health and safety specialists.

All personnel participating in the field must be trained in the general and specific hazards unique to the job and, if applicable, participate in a medical surveillance program. Converse claims no responsibility for use of this plan by others. The plan is written for the specific site conditions, purposes, dates, and personnel specified and must be amended if these conditions change.

I. Site History and Project Information

A) Facility Site Description:

This site is currently a dry cleaner facility. Its is currently occupied by Hillside Cleaners. This site consist of dry cleaning equipment , boiler room and various storage areas. Sub surface enviromental assessments are being conducted in order to identify unauthorized or accidental spills.

B) Site Abandoned or Occupied?

Occupied

C) Site Map Attached with the Following Designated:

1) *Figure No. 1, TBG page showing work site and hospital location.*

D) Background Information:

Dry cleaning operations are conducted on a daily basis. Subsurface environmental assessments are conducted in order to identify unauthorized or accidental spills.

E) Levels of Contamination Found:

PCE has been reported at non-detect to 63 part per million.

F) Scope of Work:

Geo-probe at nine (9) locations to collect soil samples at all nine locations and ground water samples at five of the nine locations. A total of 36 soil samples and 5 ground water samples will be taken for chemical analysis in accordance with EPA Method 8260.

Drill at three (3) locations to install groundwater monitoring wells and collect ground water samples at all three locations. A total of three samples will be taken fro chemical analysis in accordance with EPA Method 8260.

G) Written Work Plan: yes X no_

H) Project Crew:

Project Manager:..... William Ragsdale
Field Supervisor:..... William Ragsdale
Site Safety Officer:..... William Ragsdale
Team Members:..... Strong Arm Environmental Services & A n R Drilling Co.

II. Health Risk Analysis

A) Job Tasks to be Performed:

Geo-probe collection of soil and ground water samples.

B) Summary of Potential Exposure Conditions, Pathways, Chemical Hazards and Physical Hazards:

See Table 1.

C) Chemical Hazard Data

See Table 2.

D) Physical and Non-Chemical Hazards

See Table 3. --Confined Spaced Entry precautions do not apply--

E) Overall Rating of Risk due to Project Hazards.

Serious Moderate **Low**

F) Utility Clearance

1) Field clearance done by: ..... Dig Alert (USA)

2) List Instruments used: ..... Unknown

III. Air Monitoring Equipment/Personal Protective Equipment and Action Levels

Monitoring is to be conducted by the Site Safety Officer or designee. The results shall be interpreted by the Site Safety Officer.

All monitoring shall be performed on a periodic basis. "Periodic" is defined as adequate characterization before, during, and after each task/activity. Monitoring should continue on a continuous basis until the operation is stable and the SSO or CHSO feels that the monitoring is sufficient to adequately assess and characterize exposure during that operation. Additional characterization monitoring shall begin immediately if the operation destabilizes, the environment changes, or the potential for exposure is otherwise affected.

A) Monitoring Instruments/Direct Reading Instruments (to be filled out by CHSO/HSO)

Organics - OVA/PID (performed initially and periodically)

Explosive/O_2 - LEL/O_2 Meter *N/A*

Hydrogen Sulfide - H_2S Meter *N/A*

B) Personal Protective Equipment and Action Levels See Table 4 (to be filled out by CHSO/HSO)

IV. Decontamination/Hazardous Waste Generation

A) Sampling/Equipment Samples

3-Step decontamination procedures

- Alconox water
- Rinse water
- Commercially available distilled water

B) Personal Protective Equipment

- Nitrile gloves when handling samples or sampling equipment
-
-
-

C) Heavy Equipment

-DECON Geo-probe, contain run-off, if applicable

D) Hazardous Waste Generation, if generated.

1) Drill cuttings to be placed in properly labeled drums.

2) Liquid generated during decontamination or sampling shall be appropriately contained and disposed of after laboratory analysis.

3) Disposable protective equipment to be placed in drum with cuttings.

V. Site Access Procedure

On-Site Command Post: Converse truck

General: Converse trucks will be utilized to segregate work area.

Work Area Access: ..... Access authorized at Crown Cleaners rear door, Lucky's at front door..

Security for Off-Hours: ..... N/A

VI. Emergency Procedures

FIRST AID

Eye: ..... Irrigate Immediately
..... EYE WASH STATION ONSITE WITH CONVERSE VECHILE
Skin: ..... Wash
Breathing: ..... Artificial Respiration
Seek Medical Attention

Nearest Telephone: ..... Mobile telephones with each worker

EMERGENCY PHONE NO:

Fire 911
Ambulance 911
Police 911

HOSPITAL EMERGENCY ROOM NO: ..... (714) 978-4000

EMERGENCY HOSPITAL: ..... **Orange Post Memorial**

Hospital Address ..... 9911 Talbert Ave.
Fountain Valley , California

MAP ATTACHED WITH ROUTE HIGHLIGHTED

Beepers No./Telephone No.

Converse Office: ..... (714) 444-9660
Project Manager – William Ragsdale ..... Office: (714) 444-9660
Site Safety Officer – William Ragsdale ..... Cell: (909) 264-5145

VII. Plan Approval/Sign Off/Log Sheet/Tail Gate Meetings

A) Plan approved by:

CHSO:

Project Manager: William Ragsdale

B) The following team members have read this plan before entering the site:

PRINT NAME	SIGNATURE	DATE

C) Daily Tail Gate Meeting - Fill out On-site Safety Meeting Form

D) **TABLE NO. 1**

TASK RISK ANALYSIS/SUMMARY OF POTENTIAL EXPOSURE, PATHWAYS, AND PHYSICAL HAZARDS

TASKS SCHEDULED	MEDIA OF CONCERN	POTENTIAL EXPOSURE PATHWAYS	PHYSICAL HAZARDS	CHEMICAL HAZARDS	RISK RATING
Utility Clearance	Soil	Inhalation, Skin	Utilities, explosion, fire	Solvents and associated contaminants	medium
Drilling/ Sampling	Soil, Water	Inhalation, Skin	Explosion, fire, heavy equipment	Solvents and associated contaminants	medium
Install Monitoring Wells	Soil, Water, Air	Inhalation, Skin	Heavy Equipment	Solvents and associated contaminants	low
Monitor wells and equipment	Air	Inhalation, Skin	Explosion	Solvents and associated contaminants	low
Control Channel	Water	Inhalation, Skin	Slip and fall, hilly terrain	Solvents and Associated contaminants	low
Decontamin-ation	Soil, Water	Inhalation, Skin	Heavy Equipment	Solvents and associated contaminants	low

TABLE NO. 2
IDENTIFICATION AND ASSESSMENT OF CHEMICAL HAZARDS

CHEMICAL	PEL/TLV	OTHER LIMITS	WARNING	PHYSICAL	TARGET	ACUTE/CHRONIC	CANCER
SEE ATTACHED MATERIAL SAFETY DATA SHEETS							

TABLE NO. 3
POSSIBLE PHYSICAL AND NON-CHEMICAL HAZARDS

HAZARD	PRESENT	ABSENT
Safety Hazards:		
Holes/trenches/ditches	X	
Steep grades		X
Slippery/wet surfaces	X	
Uneven terrain	X	
Unstable surfaces		X
Elevated work area		X
Lifting/moving heavy objects	X	
Shoring/scaffolding		X
Fire hazards	X	
Electrical hazards:	X	
Overhead power lines		X
Underground power lines	X	
Gas lines	X	
Explosive atmospheres	X	
Oxygen deficiency	X	
Confined spaces		X
Equipment hazards:		X
Drilling	X	
Excavation		X
Machinery	X	
Heat exposure	X	
Cold exposure		X
Noise	X	
Ionizing radiation		X
Non-Ionizing radiation:		
Infrared		X

Lasers		X
Ultraviolet		X
Biological		X
Other	X	

TABLE NO. 4

TASK-SPECIFIC PERSONAL PROTECTIVE EQUIPMENT (PPE)

ACTION LEVEL TABLE

LEVEL	TASK ACTIVITY*	ACTION LEVEL OF ANY CONTAM. FOR PPE UPGRADE	SUIT	GLOVE	FOOT*	HEAD*	EYE*	EAR	RESPIRATOR*	CARTRIDGE*	MONITORING EQUIPMENT*
D	ALL	<5 ppm PID <0.5 ppm Benzene	Na	nitrile	ST	HH	SG	na	Na	na	LEL/O_2; PID, DR-Benzene
C	ALL	>5<100 ppm PID, >0.5<1 ppm Benzene	Na	nitrile	ST	HH	SG	na	HF/APR	CC-OC/PART	LEL/O_2; PID, DR-Benzene
work stop	ALL	>20% LEL <19.5%>25% O_2, >100 PID, >1 ppm Benzene									LEL/O_2; PID, DR-Benzene

*TASK

GPR = Ground Penetrating Radar
HA = Hand Augering
UC = Utility Clearance
SS = Soil Sampling
SB = Soil Boring
GP = Geo probe
WC = Well Construction
WS = Groundwater Sampling
D = Decontamination
DS = Drum Sampling
SE = Soil Excavation
WD = Well Development
DR = Drill Rig
DU = Degassing Unit

[b]FOOT PROTECTION

ST	= Steel Toe Boots
RB	= Rubber Boots
FC	= Boot Covers

[c]HEAD PROTECTION

HH	= Hard Hat

[d]EYE PROTECTION

SG	= Safety Glasses
FS	= Face Shield

[e]RESPIRATORY PROTECTION

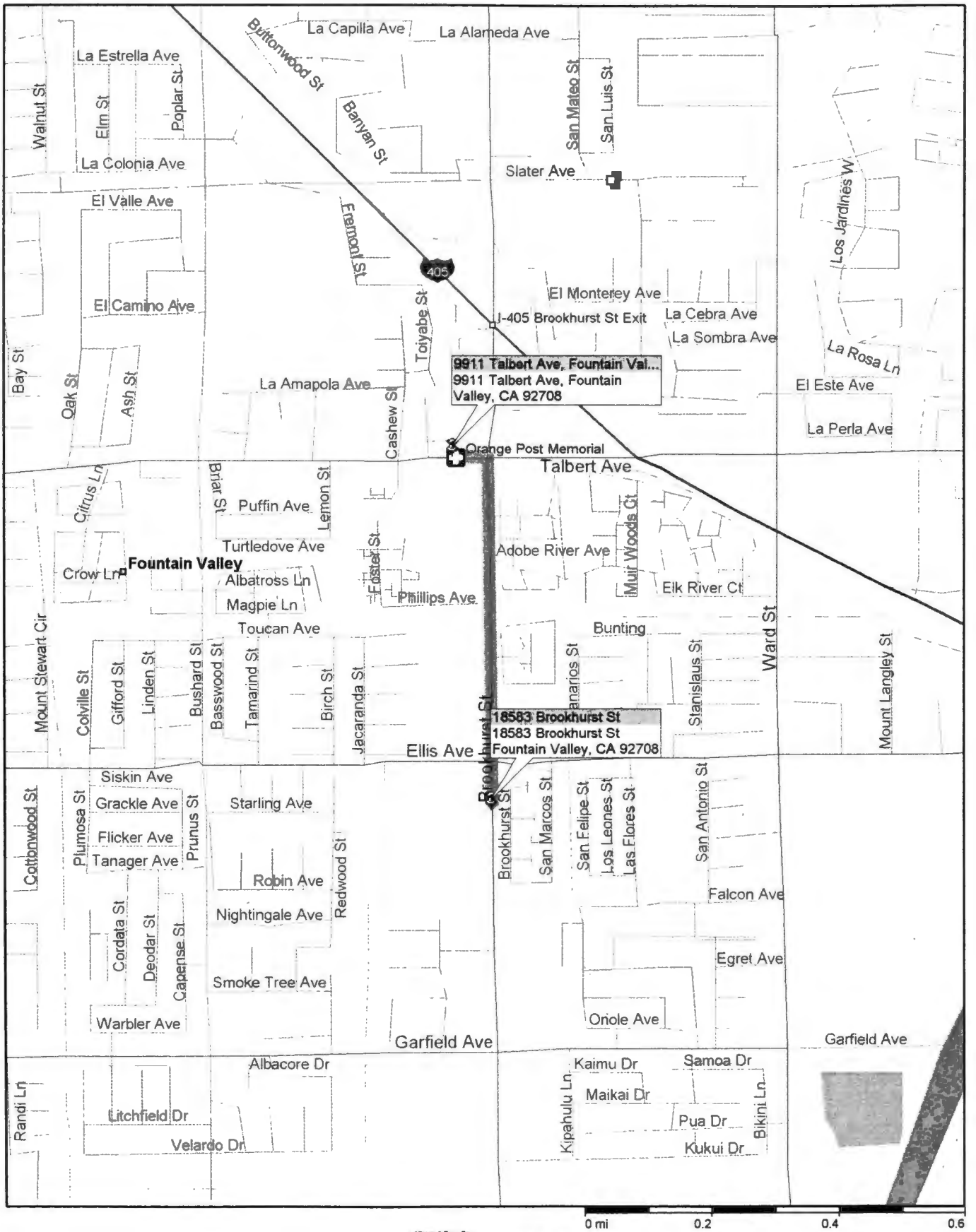
HF/APR	= Half Face Air Purifying
FF/APR	= Full Face Air Purifying

[f]CARTRIDGE

CC	= Combination Cartridge OV/PART
HiE	= High Efficiency Particulate
OV	= Organic Vapor
AC	= Acid Gas

[g]MONITORING EQUIPMENT

PID	= Photoionization Detector
FID	= Flame Ionization Detector
LEL/O_2	= Explosimeter Oxygen Meter
DR	= Draeger Tubes
FB	= Film Badge
MR	= Miniram



Streets98

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MSDS Material Safety Data Sheet

From: Mallinckrodt Baker, Inc.
222 Red School Lane
Phillipsburg, NJ 08865

Mallinckrodt CHEMICALS | J.T.Baker

24 Hour Emergency Telephone: 908-859-2151
CHEMTREC: 1-800-424-9300

National Response in Canada
CANUTEC: 613-996-6666

Outside U.S. and Canada
Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.

TETRACHLOROETHYLENE

MSDS Number: T0767 --- *Effective Date: 08/02/00*

1. Product Identification

Synonyms: ethylene tetrachloride; tetrachloroethene; perchloroethylene; carbon bichloride; carbon dichloride
CAS No.: 127-18-4
Molecular Weight: 165.83
Chemical Formula: Cl2C:CCl2
Product Codes:
J.T. Baker: 9218, 9360, 9453, 9465, 9469
Mallinckrodt: 1933, 8058

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Tetrachloroethylene	127-18-4	99 - 100%	Yes

3. Hazards Identification

Emergency Overview

WARNING! HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM, LIVER AND KIDNEYS. SUSPECT CANCER HAZARD. MAY CAUSE CANCER. Risk of cancer depends on level and duration of exposure.

J.T. Baker SAF-T-DATA(tm) Ratings (Provided here for your convenience)

Health Rating: 3 - Severe (Cancer Causing)
Flammability Rating: 0 - None
Reactivity Rating: 1 - Slight
Contact Rating: 2 - Moderate
Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES
Storage Color Code: Blue (Health)

Potential Health Effects

Inhalation:
Irritating to the upper respiratory tract. Giddiness, headache, intoxication, nausea and vomiting may follow the inhalation of large amounts while massive amounts can cause breathing arrest, liver and kidney damage, and death. Concentrations of 600 ppm and more can affect the central nervous system after a few minutes.
Ingestion:
Not highly toxic by this route because of low water solubility. Used as an oral dosage for hookworm (1 to 4 ml). Causes abdominal pain, nausea, diarrhea, headache, and dizziness.
Skin Contact:
Causes irritation to skin. Symptoms include redness, itching, and pain. May be absorbed through the skin with possible systemic effects.
Eye Contact:
Causes irritation, redness, and pain.
Chronic Exposure:
May cause liver, kidney or central nervous system damage after repeated or prolonged exposures. Suspected cancer risk from animal studies.
Aggravation of Pre-existing Conditions:
Persons with pre-existing skin disorders or eye problems or impaired liver or kidney function may be more susceptible to the effects of the substance. The use of alcoholic beverages enhances the toxic effects.

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4. First Aid Measures

Inhalation:
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Ingestion:
Aspiration hazard. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Skin Contact:
Wash skin with soap or mild detergent and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician.
Eye Contact:
Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Note to Physician:
Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning.

5. Fire Fighting Measures

Fire:
Not considered to be a fire hazard but becomes hazardous in a fire situation because of vapor generation and possible degradation to phosgene (highly toxic) and hydrogen chloride (corrosive). Vapors are heavier than air and collect in low-lying areas.
Explosion:
Not considered to be an explosion hazard. Containers may explode when involved in a fire.
Fire Extinguishing Media:
Use any means suitable for extinguishing surrounding fire. Water spray may be used to keep fire exposed containers cool.
Special Information:
In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Neutralize with alkaline material (soda ash, lime), then absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage

Store in a cool, dry, ventilated area away from sources of heat or ignition. Isolate from flammable materials. Protect from direct sunlight. Wear special protective equipment (Sec. 8) for maintenance break-in or where exposures may exceed established exposure levels. Wash hands, face, forearms and neck when exiting restricted areas. Shower, dispose of outer clothing, change to clean garments at the end of the day. Avoid cross-contamination of street clothes. Wash hands before eating and do not eat, drink, or smoke in workplace. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

-OSHA Permissible Exposure Limit (PEL):
100 ppm (TWA), 200 ppm (ceiling),
300 ppm/5min/3-hour (max)

-ACGIH Threshold Limit Value (TLV):
25 ppm (TWA), 100 ppm (STEL); listed as A3, animal carcinogen
Ventilation System:
A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.
Personal Respirators (NIOSH Approved):
If the exposure limit is exceeded, wear a supplied air, full-facepiece respirator, airlined hood, or full-facepiece self-contained breathing apparatus.
Skin Protection:
Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Eye Protection:
Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

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9. Physical and Chemical Properties

Appearance:
Clear, colorless liquid.
Odor:
Ethereal odor.
Solubility:
0.015 g in 100 g of water.
Specific Gravity:
1.62 @ 20C/4C
pH:
No information found.
% Volatiles by volume @ 21C (70F):
100
Boiling Point:
121C (250F)
Melting Point:
-19C (-2F)
Vapor Density (Air=1):
5.7
Vapor Pressure (mm Hg):
18 @ 25C (77F)
Evaporation Rate (BuAc=1):
0.33 (trichloroethylene = 1)

---

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage. Slowly decomposed by light. Deteriorates rapidly in warm, moist climates.
Hazardous Decomposition Products:
Carbon dioxide and carbon monoxide may form when heated to decomposition. Hydrogen chloride gas and phosgene gas may be formed upon heating. Decomposes with moisture to yield trichloroacetic acid and hydrochloric acid.
Hazardous Polymerization:
Will not occur.
Incompatibilities:
Strong acids, strong oxidizers, strong alkalis, especially NaOH, KOH; finely divided metals, especially zinc, barium, lithium. Slowly corrodes aluminum, iron and zinc.
Conditions to Avoid:
Moisture, light, heat and incompatibles.

11. Toxicological Information

Oral rat LD50: 2629 mg/kg; inhalation rat LC50: 34.2 g/m3/8H; investigated as a tumorigen, mutagen, reproductive effector.

--------\Cancer Lists\----------

Ingredient	---NTP Carcinogen--- Known	Anticipated	IARC Category
Tetrachloroethylene (127-18-4)	No	Yes	2A

12. Ecological Information

Environmental Fate:
When released into the soil, this material is expected to quickly evaporate. When released into the soil, this material may leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent. When released to water, this material is expected to quickly evaporate. When released into water, this material is not expected to biodegrade. This material is not expected to significantly bioaccumulate. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals.
Environmental Toxicity:
The LC50/96-hour values for fish are between 1 and 10 mg/l. The LC50/96-hour values for fish are between 10 and 100 mg/l. This material is expected to be toxic to aquatic life.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: TETRACHLOROETHYLENE
Hazard Class: 6.1
UN/NA: UN1897
Packing Group: III
Information reported for product/size: 20L

International (Water, I.M.O.)

Proper Shipping Name: TETRACHLOROETHYLENE
Hazard Class: 6.1
UN/NA: UN1897
Packing Group: III
Information reported for product/size: 20L

International (Air, I.C.A.O.)

Proper Shipping Name: TETRACHLOROETHYLENE
Hazard Class: 6.1
UN/NA: UN1897
Packing Group: III
Information reported for product/size: 20L

---

15. Regulatory Information

--------\Chemical Inventory Status - Part 1\---------------------------------

Ingredient	TSCA	EC	Japan	Australia
Tetrachloroethylene (127-18-4)	Yes	Yes	Yes	Yes

--------\Chemical Inventory Status - Part 2\---------------------------------

Ingredient	Korea	--Canada-- DSL	NDSL	Phil.
Tetrachloroethylene (127-18-4)	Yes	Yes	No	Yes

--------\Federal, State & International Regulations - Part 1\----------------

Ingredient	-SARA 302- RQ	TPQ	------SARA 313------ List	Chemical Catg.
Tetrachloroethylene (127-18-4)	No	No	Yes	No

--------\Federal, State & International Regulations - Part 2\----------------

Ingredient	CERCLA	-RCRA- 261.33	-TSCA- 8(d)
Tetrachloroethylene (127-18-4)	100	U210	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: No (Pure / Liquid)

WARNING:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

Australian Hazchem Code: 2[Z]
Poison Schedule: No information found.
WHMIS:
This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

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16. Other Information

NFPA Ratings: Health: **2** Flammability: **0** Reactivity: **0**
Label Hazard Warning:
WARNING! HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM, LIVER AND KIDNEYS. SUSPECT CANCER HAZARD. MAY CAUSE CANCER. Risk of cancer depends on level and duration of exposure.
Label Precautions:
Do not get in eyes, on skin, or on clothing.
Do not breathe vapor or mist.
Keep container closed.
Use only with adequate ventilation.
Wash thoroughly after handling.
Label First Aid:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. In all cases call a physician.
Product Use:
Laboratory Reagent.
Revision Information:
No changes.
Disclaimer:
****

Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.
****

Prepared by: Strategic Services Division
Phone Number: (314) 539-1600 (U.S.A.)

MSDS Material Safety Data Sheet

From: Mallinckrodt Baker, Inc.
222 Red School Lane
Phillipsburg, NJ 08865

Mallinckrodt CHEMICALS J.T.Baker

24 Hour Emergency Telephone: 908-859-2151
CHEMTREC 1-800-424-9300

National Response in Canada
CANUTEC: 613-996-6666

Outside U.S. and Canada
Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.

TRICHLOROETHYLENE

MSDS Number: T4940 --- *Effective Date: 09/14/00*

1. Product Identification

Synonyms: Trichloroethene; TCE; acetylene trichloride; Ethinyl trichloride
CAS No.: 79-01-6
Molecular Weight: 131.39
Chemical Formula: C2HCl3
Product Codes:
J.T. Baker: 5376, 9454, 9458, 9464, 9473, 9474
Mallinckrodt: 8598, 8600, 8633

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Trichloroethylene	79-01-6	100%	Yes

3. Hazards Identification

Emergency Overview

WARNING! HARMFUL IF SWALLOWED OR INHALED. AFFECTS HEART, CENTRAL NERVOUS SYSTEM, LIVER AND KIDNEYS. CAUSES SEVERE SKIN IRRITATION. CAUSES IRRITATION TO EYES AND RESPIRATORY TRACT. SUSPECT CANCER HAZARD. MAY CAUSE CANCER. Risk of cancer depends on level and duration of exposure.

J.T. Baker SAF-T-DATA(tm) Ratings (Provided here for your convenience)

--
Health Rating: 3 - Severe (Cancer Causing)
Flammability Rating: 1 - Slight
Reactivity Rating: 1 - Slight
Contact Rating: 2 - Moderate
Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES
Storage Color Code: Blue (Health)

--

Potential Health Effects

Inhalation:
Vapors can irritate the respiratory tract. Causes depression of the central nervous system with symptoms of visual disturbances and mental confusion, incoordination, headache, nausea, euphoria, and dizziness. Inhalation of high concentrations could cause unconsciousness, heart effects, liver effects, kidney effects, and death.
Ingestion:
Cases irritation to gastrointestinal tract. May also cause effects similar to inhalation. May cause coughing, abdominal pain, diarrhea, dizziness, pulmonary edema, unconsciousness. Kidney failure can result in severe cases. Estimated fatal dose is 3-5 ml/kg.
Skin Contact:
Cause irritation, redness and pain. Can cause blistering. Continued skin contact has a defatting action and can produce rough, dry, red skin resulting in secondary infection.
Eye Contact:
Vapors may cause severe irritation with redness and pain. Splashes may cause eye damage.
Chronic Exposure:
Chronic exposures may cause liver, kidney, central nervous system, and peripheral nervous system effects. Workers chronically exposed may exhibit central nervous system depression, intolerance to alcohol, and increased cardiac output. This material is linked to mutagenic effects in humans. This material is also a suspect carcinogen.
Aggravation of Pre-existing Conditions:
Persons with pre-existing skin disorders, cardiovascular disorders, impaired liver or kidney or respiratory function, or central or peripheral nervous system disorders may be more susceptible to the effects of the substance.

---

4. First Aid Measures

Inhalation:
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Ingestion:
Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician.
Skin Contact:
Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Note to Physician:
Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning.

5. Fire Fighting Measures

Fire:
Autoignition temperature: 420C (788F)
Flammable limits in air % by volume:
lel: 8; uel: 12.5
Explosion:
A strong ignition source, e. g., a welding torch, can produce ignition. Sealed containers may rupture when heated.
Fire Extinguishing Media:
Use water spray to keep fire exposed containers cool. If substance does ignite, use CO2, dry chemical or foam.
Special Information:
In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Combustion by-products include phosgene and hydrogen chloride gases. Structural firefighters' clothing provides only limited protection to the combustion products of this material.

6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from any source of heat or ignition. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:
Trichloroethylene:
-OSHA Permissible Exposure Limit (PEL):
100 ppm (TWA), 200 ppm (Ceiling),
300 ppm/5min/2hr (Max)

-ACGIH Threshold Limit Value (TLV):
50 ppm (TWA) 100 ppm (STEL);
listed as A5, not suspected as a human carcinogen.
Ventilation System:
A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.
Personal Respirators (NIOSH Approved):
If the exposure limit is exceeded and engineering controls are not feasible, wear a supplied air, full-facepiece respirator, airlined hood, or full-facepiece self-contained breathing apparatus. Breathing air quality must meet the requirements of the OSHA respiratory protection standard (29CFR1910.134). This substance has poor warning properties. Where respirators are required, you must have a written program covering the basic requirements in the OSHA respirator standard. These include training, fit testing, medical approval, cleaning, maintenance, cartridge change schedules, etc. See 29CFR1910.134 for details.
Skin Protection:
Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Neoprene is a recommended material for personal protective equipment.
Eye Protection:
Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

---

9. Physical and Chemical Properties

Appearance:
Clear, colorless liquid.
Odor:
Chloroform-like odor.
Solubility:
Practically insoluble in water. Readily miscible in organic solvents.
Specific Gravity:
1.47 @ 20C/4C
pH:
No information found.
% Volatiles by volume @ 21C (70F):
100
Boiling Point:
87C (189F)
Melting Point:
-73C (-99F)
Vapor Density (Air=1):
4.5

Vapor Pressure (mm Hg):
57.8 @ 20C (68F)
Evaporation Rate (BuAc=1):
No information found.

---

10. Stability and Reactivity

Stability:
Stable under ordinary conditions of use and storage. Will slowly decompose to hydrochloric acid when exposed to light and moisture.
Hazardous Decomposition Products:
May produce carbon monoxide, carbon dioxide, hydrogen chloride and phosgene when heated to decomposition.
Hazardous Polymerization:
Will not occur.
Incompatibilities:
Strong caustics and alkalis, strong oxidizers, chemically active metals, such as barium, lithium, sodium, magnesium, titanium and beryllium, liquid oxygen.
Conditions to Avoid:
Heat, flame, ignition sources, light, moisture, incompatibles

---

11. Toxicological Information

Toxicological Data:
Trichloroethylene: Oral rat LD50: 5650 mg/kg; investigated as a tumorigen, mutagen, reproductive effector.
Reproductive Toxicity:
This material has been linked to mutagenic effects in humans.

--------\Cancer Lists\----------

Ingredient	---NTP Carcinogen--- Known	Anticipated	IARC Category
Trichloroethylene (79-01-6)	No	Yes	2A

---

12. Ecological Information

Environmental Fate:
When released into the soil, this material may leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released to water, this material is expected to quickly evaporate. This material has an experimentally-determined bioconcentration factor (BCF) of less than 100. This material is not expected to significantly bioaccumulate. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days.
Environmental Toxicity:
The LC50/96-hour values for fish are between 10 and 100 mg/l. This material is expected to be slightly toxic to aquatic life.

---

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: TRICHLOROETHYLENE
Hazard Class: 6.1
UN/NA: UN1710
Packing Group: III
Information reported for product/size: 5GL

International (Water, I.M.O.)

Proper Shipping Name: TRICHLOROETHYLENE
Hazard Class: 6.1
UN/NA: UN1710
Packing Group: III
Information reported for product/size: 5GL

International (Air, I.C.A.O.)

Proper Shipping Name: TRICHLOROETHYLENE
Hazard Class: 6.1
UN/NA: UN1710
Packing Group: III
Information reported for product/size: 5GL

15. Regulatory Information

--------\Chemical Inventory Status - Part 1\---------------------------------

Ingredient	TSCA	EC	Japan	Australia
Trichloroethylene (79-01-6)	Yes	Yes	Yes	Yes

--------\Chemical Inventory Status - Part 2\---------------------------------

Ingredient	Korea	--Canada-- DSL	NDSL	Phil.
Trichloroethylene (79-01-6)	Yes	Yes	No	Yes

--------\Federal, State & International Regulations - Part 1\---------------

Ingredient	-SARA 302- RQ	TPQ	------SARA 313------ List	Chemical Catg.
Trichloroethylene (79-01-6)	No	No	Yes	No

--------\Federal, State & International Regulations - Part 2\----------

Ingredient	CERCLA	-RCRA- 261.33	-TSCA- 8(d)
Trichloroethylene (79-01-6)	100	U228	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: No (Pure / Liquid)

WARNING:
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

Australian Hazchem Code: No information found.
Poison Schedule: S6
WHMIS:
This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

---

16. Other Information

NFPA Ratings: Health: **2** Flammability: **1** Reactivity: **0**
Label Hazard Warning:
WARNING! HARMFUL IF SWALLOWED OR INHALED. AFFECTS HEART, CENTRAL NERVOUS SYSTEM, LIVER AND KIDNEYS. CAUSES SEVERE SKIN IRRITATION. CAUSES IRRITATION TO EYES AND RESPIRATORY TRACT. SUSPECT CANCER HAZARD. MAY CAUSE CANCER. Risk of cancer depends on level and duration of exposure.
Label Precautions:
Do not get in eyes, on skin, or on clothing.
Do not breathe vapor.
Keep container closed.
Use only with adequate ventilation.
Wash thoroughly after handling.
Keep away from heat and flame.
Label First Aid:
If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases call a physician. Note to physician: Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning.
Product Use:
Laboratory Reagent.
Revision Information:
MSDS Section(s) changed since last revision of document include: 8, 11.
Disclaimer:
****

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****

Prepared by: Strategic Services Division
Phone Number: (314) 539-1600 (U.S.A.)

RECEIVED
FEB 07 2002
ENVIRONMENTAL HEALTH

WORK PLAN FOR ADDITIONAL SITE INVESTIGATION

Crown Cleaners
18583 Brookhurst Street
Fountain Valley, California

PREPARED FOR

Orange County Health Care Agency
2009 East Edinger Avenue
Santa Ana, California 92705

Converse Project No. 98-42-589-16
O.C.H.C.A. Case #96IC31

April 2, 1999

Converse Consultants

Over 50 Years of Dedication in Geotechnical Engineering and Environmental Sciences

April 2, 1997

Mr. Luis Lodrigueza
Orange County Health Care Agency
2009 E. Edinger Avenue
Santa Ana, California 92705

Subject: **Work Plan for Additional Site Investigation**
Crown Cleaner (existing dry cleaner facility)
18583 Brookhurst Street
Fountain Valley, California
O.C.H.C.A. Case # 96IC31
Converse Project No. 96-42318-04

Dear Mr. Lodrigueza:

Converse Consultants (Converse), on behalf of Donahue Shriber, is pleased to present this Work Plan for an additional site investigation at the Crown Cleaners facility located in Fountain Valley, California.

BACKGROUND

As presented in our *Summary Report - Site Investigation Results*, dated August 6, 1996, tetrachloroethene (PCE) and trichloroethene (TCE) were detected in the subsurface soils near the existing dry cleaner equipment and outside of the rear door of the facility. The Orange County Health Care Agency (County) reviewed the referenced report, and concluded that an excess lifetime cancer risk (ELCR) exists within the above referenced facility (County letter dated September 13, 1996). Based on the undefined extent of impacted soil, the County has requested that additional soil sampling be conducted to delineate the outer boundary of the shallow (6 inches to 3.5 feet below grade) soil contamination. The County also indicated that a groundwater investigation will need to be conducted to determine whether or not groundwater has been impacted (groundwater was encountered at a depth of 10 feet bgs during the previous investigation).

At the request of Mr. Jack Enlow (previous owner), Converse inquired if any general assumptions were made in the County's determination of the ELCR. The County indicated that the building dimensions were assumed and that soil samples collected from a depth of 2 feet were used to estimate the PCE concentration that would exist at a depth of 0.5 feet. In order to reevaluate the ELCR, at least one prior sample location would need to be resampled at a depth of 0.5 feet and the specific floor dimensions should be measured.

222 East Huntington Drive, Suite 211, Monrovia, California 91016-3500
Telephone: (626) 930-1200 ♦ Facsimile: (626) 930-1212 ♦ e-mail: converse@converseconsultants.com

Converse completed the additional shallow soil investigation and documented the specific building dimensions which were presented in the *Additional Site Investigation Report, dated February 7, 1997.* The report was submitted to the County for review. The County reviewed the report and issued a letter dated April 8, 1997 which reiterated their position, essentially requesting that the full extent of impacted soil be documented and that a groundwater investigation be initiated.

At the request of Mr. Enlow, Converse completed an additional five (5) sol borings as well as install one monitoring well at the facility. The results of the additional work were presented in the *Additional Site Investigation Report, dated May 18, 1998.* The report was issued to the County for review. The County reviewed the report and issued a letter dated July 17, 1998. The County noted the following considerations which they would like to have addressed: 1) The highly impacted shallow soil contamination must be fully characterized and subsequently mitigated and 2) The detection of contamination in an interior grab groundwater sample and the presence of significant vadose zone contamination very close to the water table beneath the site require that additional groundwater characterization be undertaken.

OBJECTIVE

The objective of the proposed scope of services will be to investigate the lateral extent of dry cleaning solvents (PCE) in the shallow soils. Converse will also install three groundwater wells, at locations around the existing dry-cleaning equipment within the building to investigate if the released compounds have impacted groundwater.

SCOPE OF SERVICES

For planning purposes, the Converse scope of services will generally consist of the following tasks:

- Obtain three (3) monitoring well permits from the City of Fountain Valley.
- Implement a sampling and analysis program to include six (6) soil boring locations within the building by coring through the concrete floor, hand-augering into the underlying soil, and collecting soil samples at depths of 2, 5, and 10 feet below ground surface (bgs). Soil samples will be field screened with an organic vapor analyzer (OVA). Three (3) of the 6 borings will be located within the Luckys Supermarket, which adjoins to the cleaners to the north. The remaining borings will be located within the cleaners at

areas around the existing dry cleaning equipment and inside the boiler room. Two of the 6 borings will be converted to groundwater monitoring wells, as described below. For proposed boring locations, see Figure No. 1 – Site Plan.

- Install three ¾ inch diameter PVC groundwater monitoring wells at locations around the existing dry-cleaning equipment within the facility. Soil samples will be collected from two of the three monitoring well borings as described above. Groundwater is anticipated to be encountered at a depth of 10 feet bgs and the well screen will extend to an approximate depth of 16 feet bgs. For proposed monitoring well locations, see Figure No. 1 – Site Plan.

- Develop, purge, and sample the groundwater monitoring wells.

- Submit eighteen (18) soil samples and three (3) groundwater samples for chemical analyses in accordance with EPA Method 8021 for purgable halocarbons.

- Prepare a report presenting a summary of observations during the field investigation work, monitoring well construction and sampling, and the analytical results from the soil and groundwater samples tested. Converse will include our conclusions, recommendations for further investigation (if considered necessary). The final report will be signed by a California Registered Geologist.

TECHNICAL APPROACH

Direct Push Sampling

Soil samples will be collected utilizing Geoprobe® direct push sampling techniques at 6 locations. Converse will advance one (1) boring at each location. Samples from each boring will be collected at 2, 5, and 10 feet bgs with duplicate samples field screened for volatile organic vapors with an organic vapor analyzer (OVA).

The soil sample to be field screened will be collected by removing the soil from the remaining sleeves and placing it in a ziplock bag to allow collection of headspace vapors emitted from the soil. A probe from an OVA will be inserted into the sample bag to qualitatively measure total volatile organic vapors.

Well Construction

Design and construction of the proposed monitoring wells will generally be based on local regulatory agency requirements and will be permitted by the City of Fountain Valley. The well screen interval will be based on the depth to first water encountered during drilling operations and the subsurface soil types encountered. A single wall ¾ inch I.D. PVC well screen will be located from total depth to at least one foot above the present water level at the time of drilling. Blank PVC casing will be connected with flush-threads to the top of the well screen and will extend to the ground surface. The bottom of the well screen will be fitted with a PVC flush-threaded cap and the top of casing will be fitted with a PVC slip cap.

Typically, the ¾-inch I.D. PVC well casing will be centralized within the 2-inch diameter Geoprobe® borehole. The filter sand pack will be poured into the casing annular space. Filter pack will be continuously checked for bridging using a weighted fiberglass measuring tape. If bridging occurs, the casing will be jarred to eliminate the bridge. The filter sand pack will be brought up to a depth equal to approximately 1-2 feet above the screen interval. After the filter sand has been placed in the well, and before the placement of the bentonite seal, the driller will surge block the well to see if the filter pack settles. If settlement occurs additional sand will be added prior to placement of the well seal. Using bentonite chips, a seal will be placed in the casing annulus across the top of the filter pack sand. The bentonite seal will extend to within 1 foot of the ground surface.

The slot size of the well screen will be 0.010 inches with the appropriate related filter sand pack grain size. This slot size is based on the fine-grained sand and silts encountered during prior investigation work at the site.

A well cover with keyed cover bolts will be installed flush with the ground surface. Well cover installation procedures will be as follows: 1) the well cover is placed around the top of casing; 2) the well cover rim is leveled; 3) concrete is poured outside the skirt and finished at the surface using a masonry trowel; and 4) concrete is sloped away from well cover rim.

Well Development

The monitoring well will be developed by the drillers subsequent to completion of the well construction using a decontaminated (triple rinsed) bailer. Water will be produce from the well until the indicator parameters have stabilized (except if the well is a low yielding well and dewaters). The indicator parameters include temperature, salinity, specific conductivity, pH, and water clarity. Water clarity can be described using color, odor, immiscible fluid descriptions (oil sheen, frothy, free product) and turbidity descriptions

(clear, cloudy, muddy, silty and sandy). The indicator parameters will be measured with an approximate frequency of 1 or 2 data sets for each well volume produced from the well. Several well volumes are usually produced before the indicator parameters stabilize.

The general criterion for stabilization is when there is little or no change (+10%) in parameter values between successive time measurements. The two primary parameters typically used to determine stability are conductivity and water clarity.

Groundwater Sampling and Analysis

After a minimum of three days after installation, the monitoring well will be purged in order to evacuate stagnant well water, so that a groundwater sample can be collected. The monitoring well will be purged until the generally accepted 3 casing volumes of water have been removed by bailing and/or stabilization of the indicator parameters. A "casing volume" is defined as the volume of water present inside the well casing at the time of the purge event.

After well purging a groundwater sample will be collected from the monitoring well using a disposable bailer. The groundwater sample will be placed in EPA approved glass containers and placed in a cooler with ice to maintain a temperature of 39^0 F (4^0 C) during transport to a laboratory for chemical analysis. A Chain of Custody Record will be maintained. Associated Laboratories, located in Chatsworth, California (State Certified Laboratory) will chemically analyze the sample in accordance with EPA Method 8021.

Investigative Waste Disposal

Our scope of services does not include treatment or disposal of contaminated or clean soil/water that may be encountered during drilling. The drill cuttings encountered and well purge water generated during the proposed work will be placed into 55-gallon drums for proper temporary on-site storage. Ultimate disposition of the soil and water will depend on the amount and contents of the material.

SCHEDULE

Converse will schedule the investigation work upon receipt of your written approval of this Work Plan. Converse will notify you at least 48 hours prior to conducting the field investigation work. The summary report will be available within approximately 20 working days after receiving the laboratory analytical report for the soil and groundwater samples.

If you have any questions concerning this Work Plan, please contact either Dean Mochrie at (626) 930-1257 or Michael Cook at (909) 796-0544.

Sincerely,

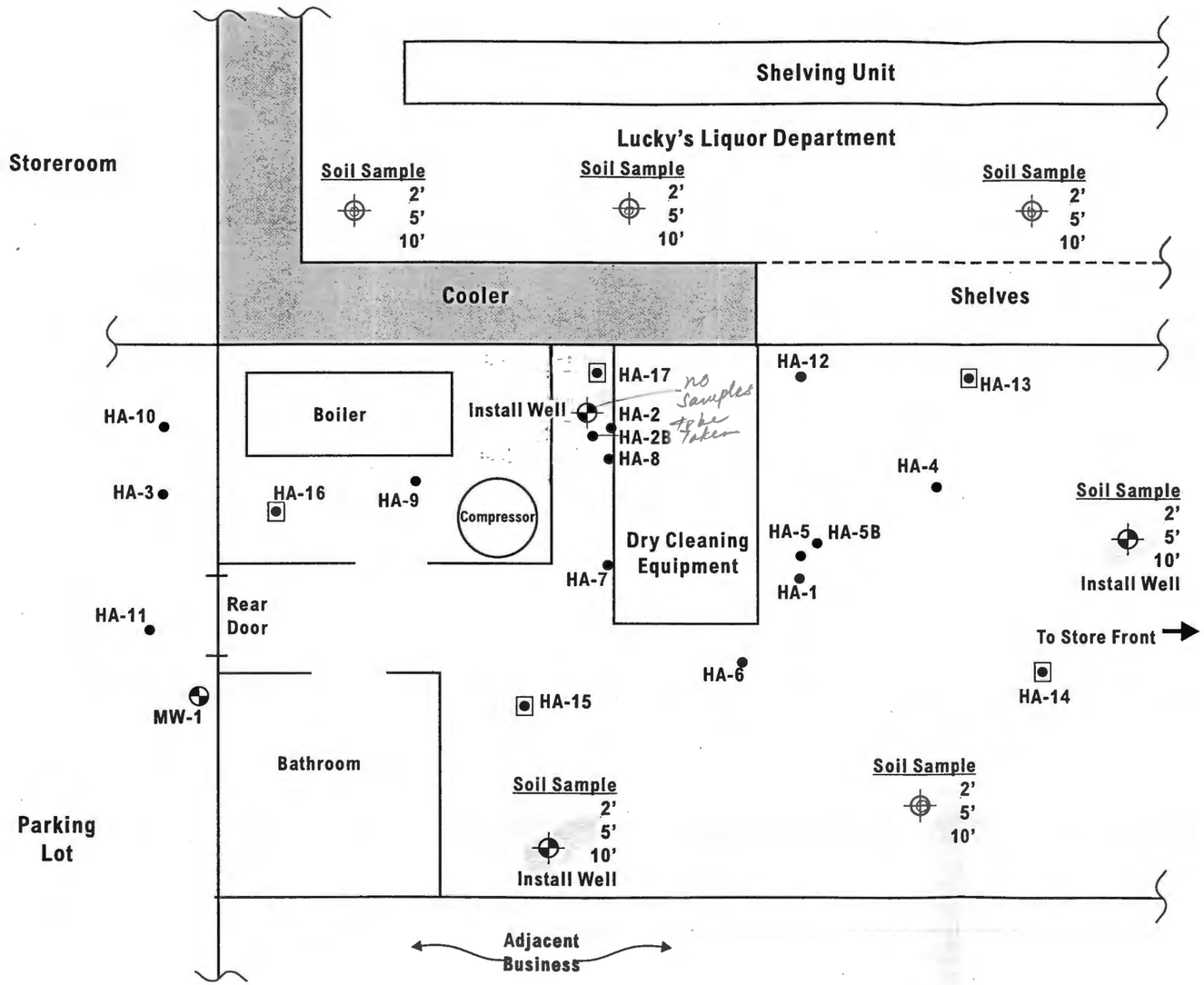
CONVERSE CONSULTANTS

Dean Mochrie
Staff Environmental Scientist

Michael Cook
Registered Geologist, #4890

Attach: Figure No. 1 - Site Plan
Dist: 1/addressee
1/Mr. Bill Mendelson
Donahue Shriber Realty Group, L. P.
3501 Jamboree Road, Suite 300, South Tower
Newport Beach, California 92660





EXPLANATION

- HA-12 ● Hand Auger Location (1996 & 1997)
- HA-17 ⊡ Hand Auger Location (1998)
- MW-1 ⊕ Monitoring Well Location
- ⊕ Proposed Well Location
- ⊕ Proposed Soil Sample Location

N

0 5 10

SCALE IN FEET

Approved by ASE

INVESTIGATION LOCATIONS

CROWN CLEANERS
Callens Corner Shopping Center, 18583 Brookhurst Street
Fountain Valley, California

Converse Consultants — Geotechnical Engineering and Applied Sciences

Scale	AS SHOWN
Project No.	98-42589-16
Date	4/2/99
Prepared By	KLF
Checked By	DM
Approved By	ASE
Drawing No.	3 (1)

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APR 07 1999
ENVIRONMENTAL HEALTH

APPENDIX G

HISTORICAL RESEARCH DOCUMENTATION

Leighton

Brookfield LA- Fountain Valley
9790 Finch Avenue
Fountain Valley, CA 92708

Inquiry Number: 5682876.3
June 13, 2019

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

06/13/19

Site Name:

Brookfield LA- Fountain Valley
9790 Finch Avenue
Fountain Valley, CA 92708
EDR Inquiry # 5682876.3

Client Name:

Leighton and Associates, Inc.
17781 Cowan
Irvine, CA 92614
Contact: Sabrina Gonzalez

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Certified Sanborn Results:

Certification # 4714-4EAA-BCCA

PO # 12418.001

Project Brookfield LA- Fountain Valley

UNMAPPED PROPERTY

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Sanborn® Library search results

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Brookfield LA- Fountain Valley
9790 Finch Avenue
Fountain Valley, CA 92708

Inquiry Number: 5682876.4
June 13, 2019

EDR Historical Topo Map Report
with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

06/13/19

Site Name:

Brookfield LA- Fountain Valley
9790 Finch Avenue
Fountain Valley, CA 92708
EDR Inquiry # 5682876.4

Client Name:

Leighton and Associates, Inc.
17781 Cowan
Irvine, CA 92614
Contact: Sabrina Gonzalez

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Search Results:

P.O.# 12418.001

Project: Brookfield LA- Fountain Valley

Coordinates:

Latitude:	33.691358 33° 41' 29" North
Longitude:	-117.9569 -117° 57' 25" West
UTM Zone:	Zone 11 North
UTM X Meters:	411312.45
UTM Y Meters:	3728346.06
Elevation:	13.00' above sea level

Maps Provided:

2012	1932
1981	1902
1972	1901
1965	1896
1951	
1949	
1942	
1935	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Newport Beach
2012
7.5-minute, 24000

1981 Source Sheets



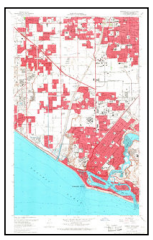
Newport Beach
1981
7.5-minute, 24000
Aerial Photo Revised 1978

1972 Source Sheets



Newport Beach
1972
7.5-minute, 24000
Aerial Photo Revised 1972

1965 Source Sheets



Newport Beach
1965
7.5-minute, 24000
Aerial Photo Revised 1963

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1951 Source Sheets



Newport Beach
1951
7.5-minute, 24000
Aerial Photo Revised 1947

1949 Source Sheets



Newport Beach
1949
7.5-minute, 24000
Aerial Photo Revised 1947

1942 Source Sheets



SANTA ANA
1942
15-minute, 50000

1935 Source Sheets



Newport Beach
1935
7.5-minute, 31680

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1932 Source Sheets



Newport Beach
1932
7.5-minute, 31680

1902 Source Sheets



Corona
1902
30-minute, 125000

1901 Source Sheets



Santa Ana
1901
15-minute, 62500

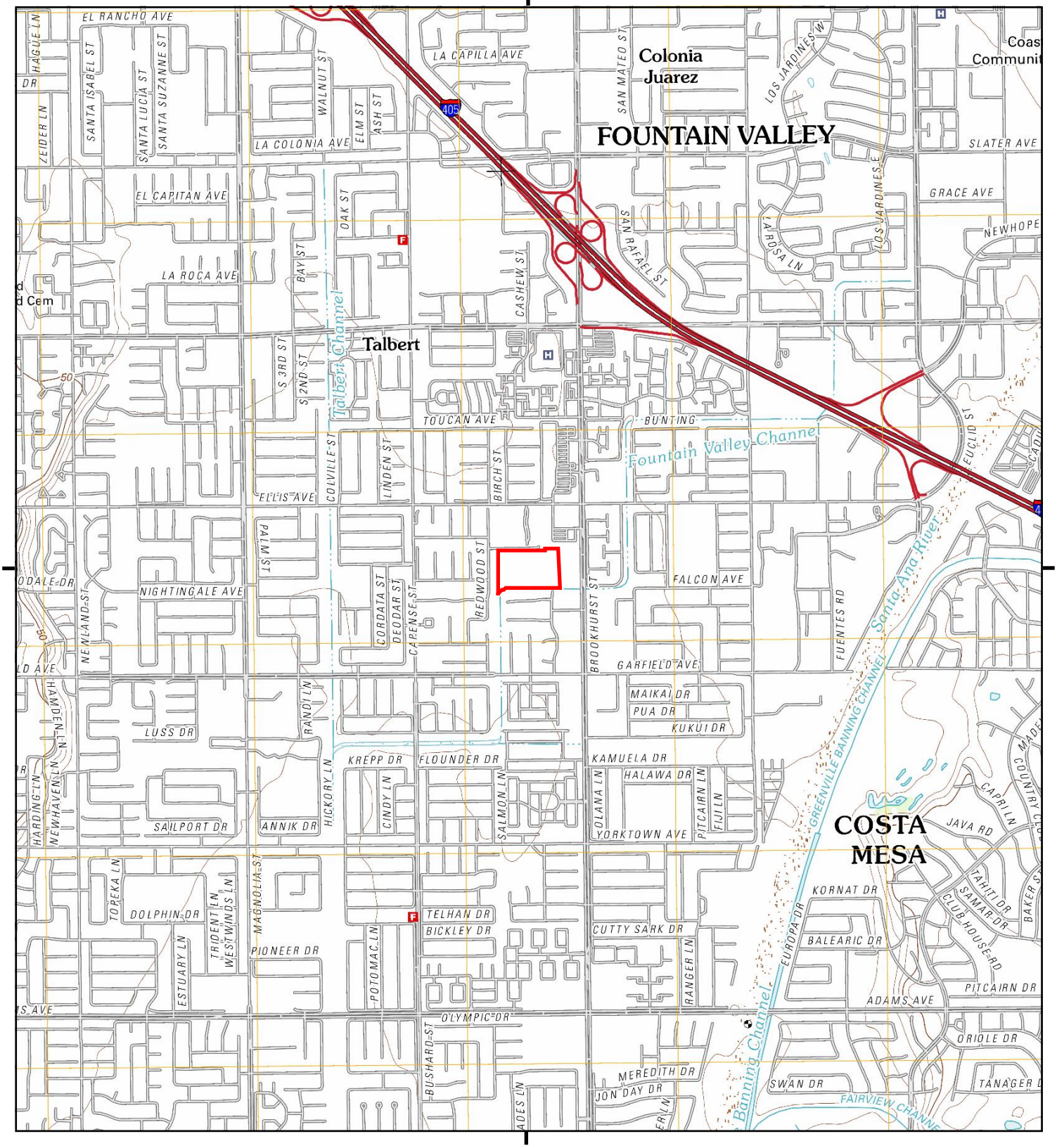
1896 Source Sheets



Santa Ana
1896
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

NW N NE
W E
SW S SE

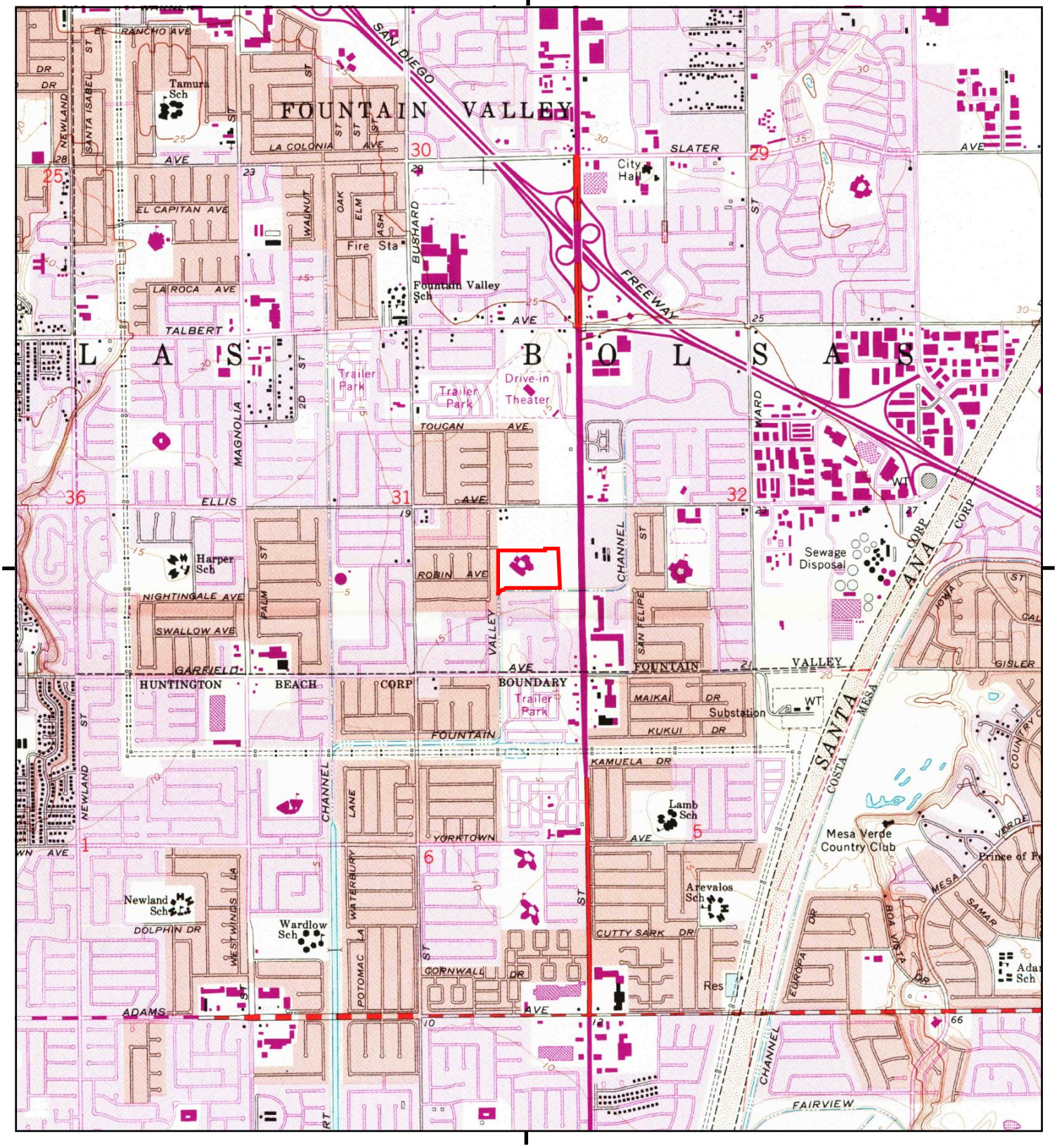
TP, Newport Beach, 2012, 7.5-minute

SITE NAME: Brookfield LA- Fountain Valley
ADDRESS: 9790 Finch Avenue
Fountain Valley, CA 92708
CLIENT: Leighton and Associates, Inc.

N

Historical Topo Map

1981



This report includes information from the following map sheet(s).

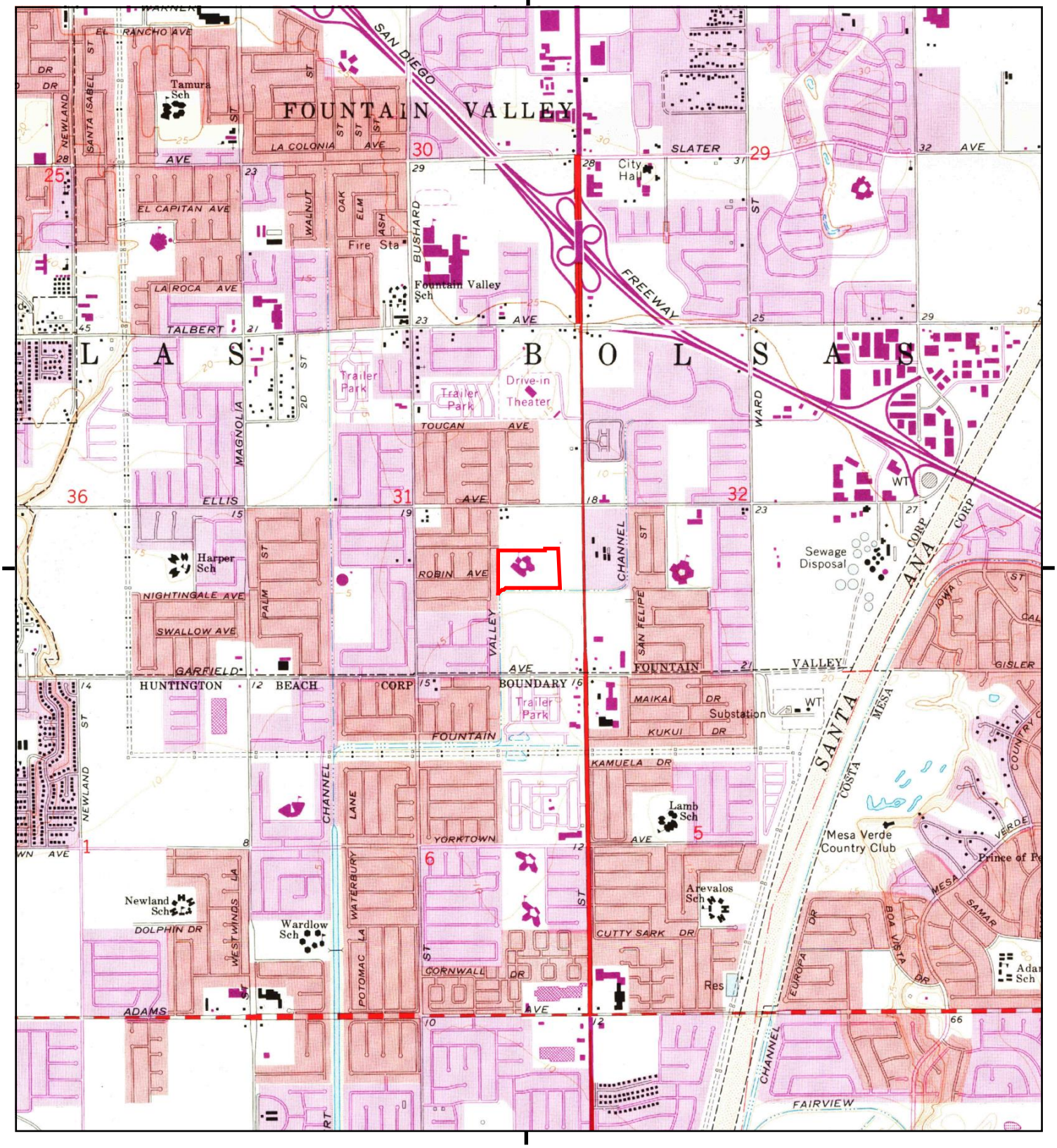
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Newport Beach, 1981, 7.5-minute

SITE NAME: Brookfield LA- Fountain Valley
ADDRESS: 9790 Finch Avenue
Fountain Valley, CA 92708
CLIENT: Leighton and Associates, Inc.

N



This report includes information from the following map sheet(s).

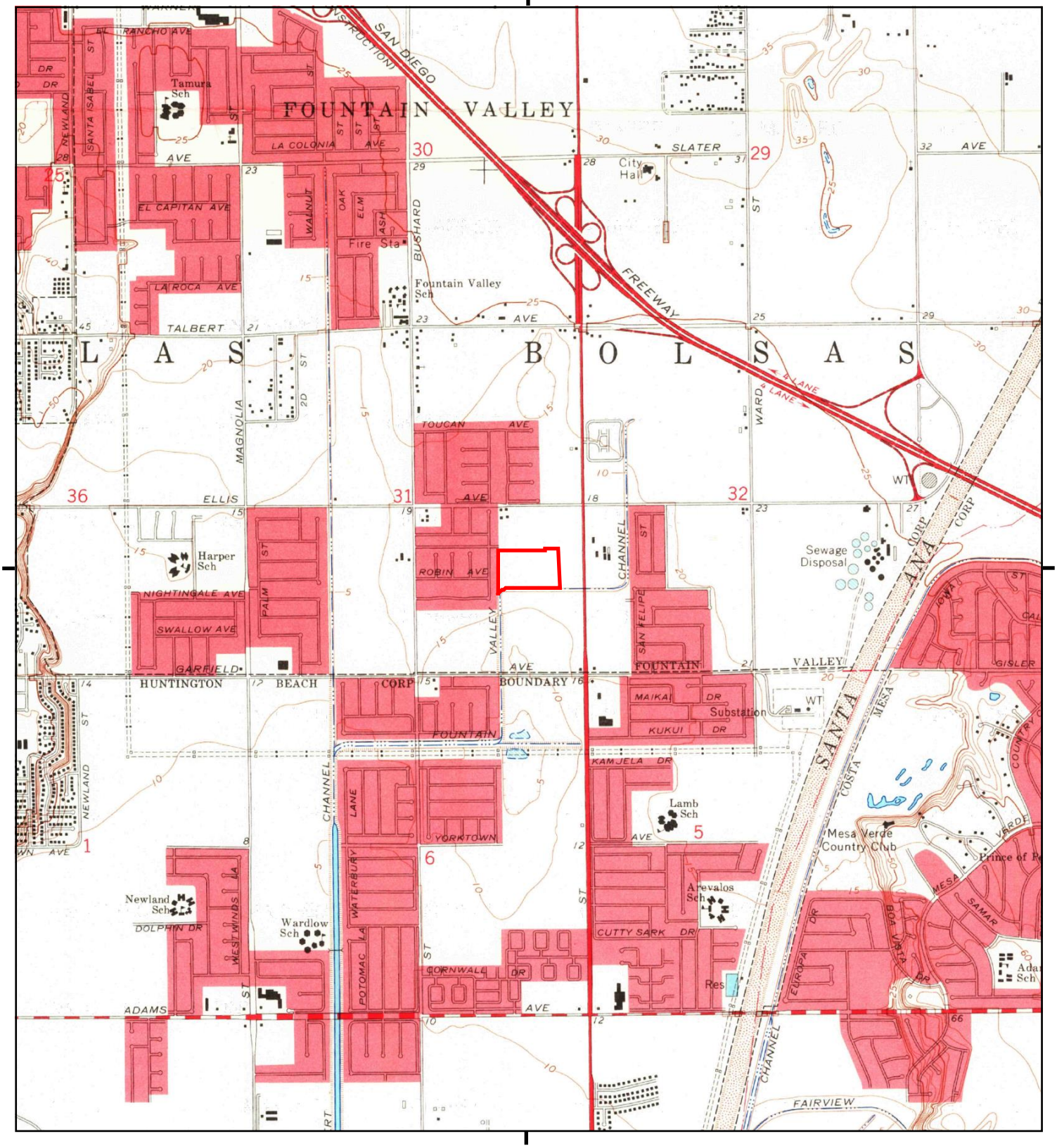
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Newport Beach, 1972, 7.5-minute

SITE NAME: Brookfield LA- Fountain Valley
ADDRESS: 9790 Finch Avenue
Fountain Valley, CA 92708
CLIENT: Leighton and Associates, Inc.

N



This report includes information from the following map sheet(s).

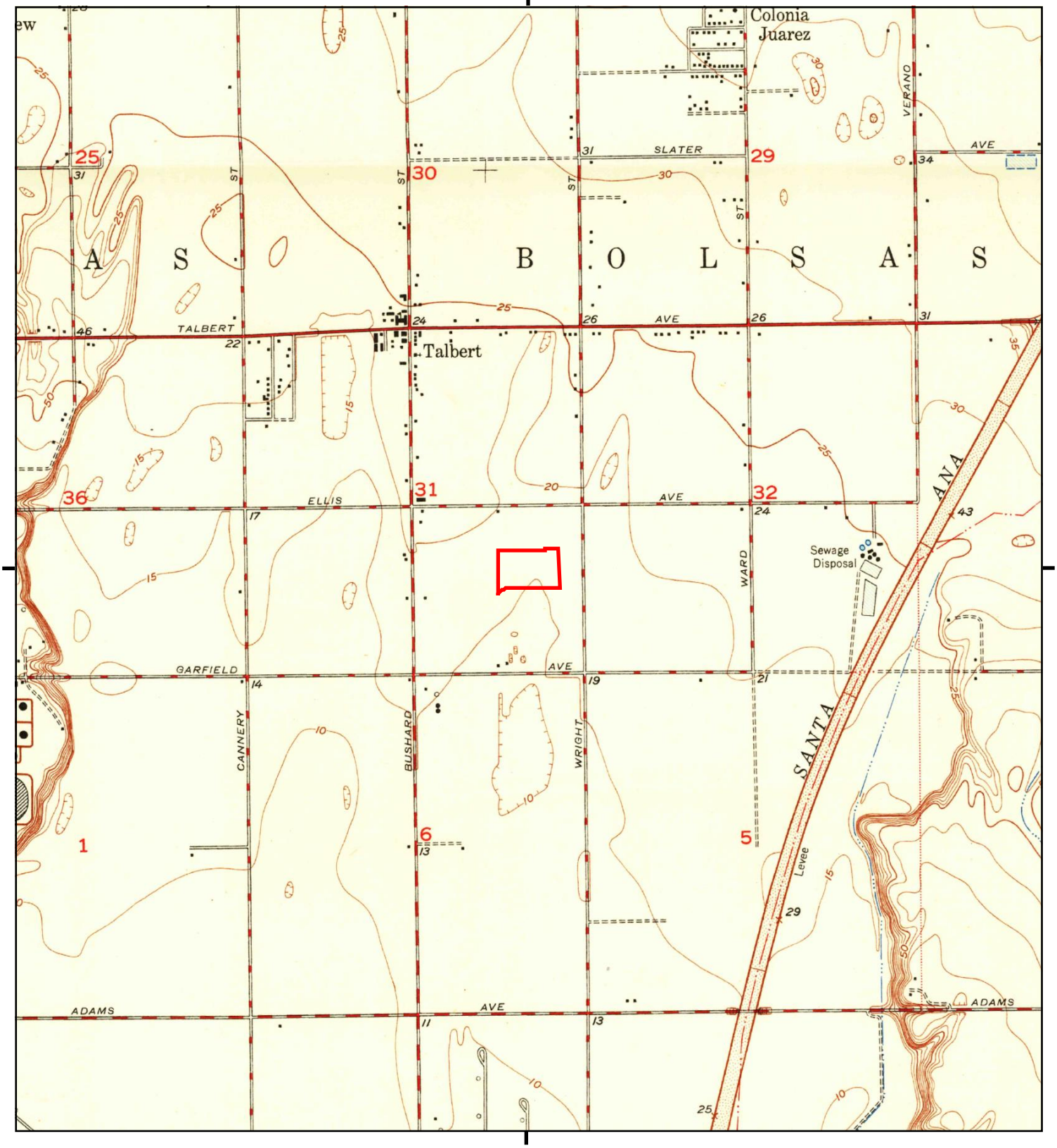
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Newport Beach, 1965, 7.5-minute

SITE NAME: Brookfield LA- Fountain Valley
ADDRESS: 9790 Finch Avenue
Fountain Valley, CA 92708
CLIENT: Leighton and Associates, Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

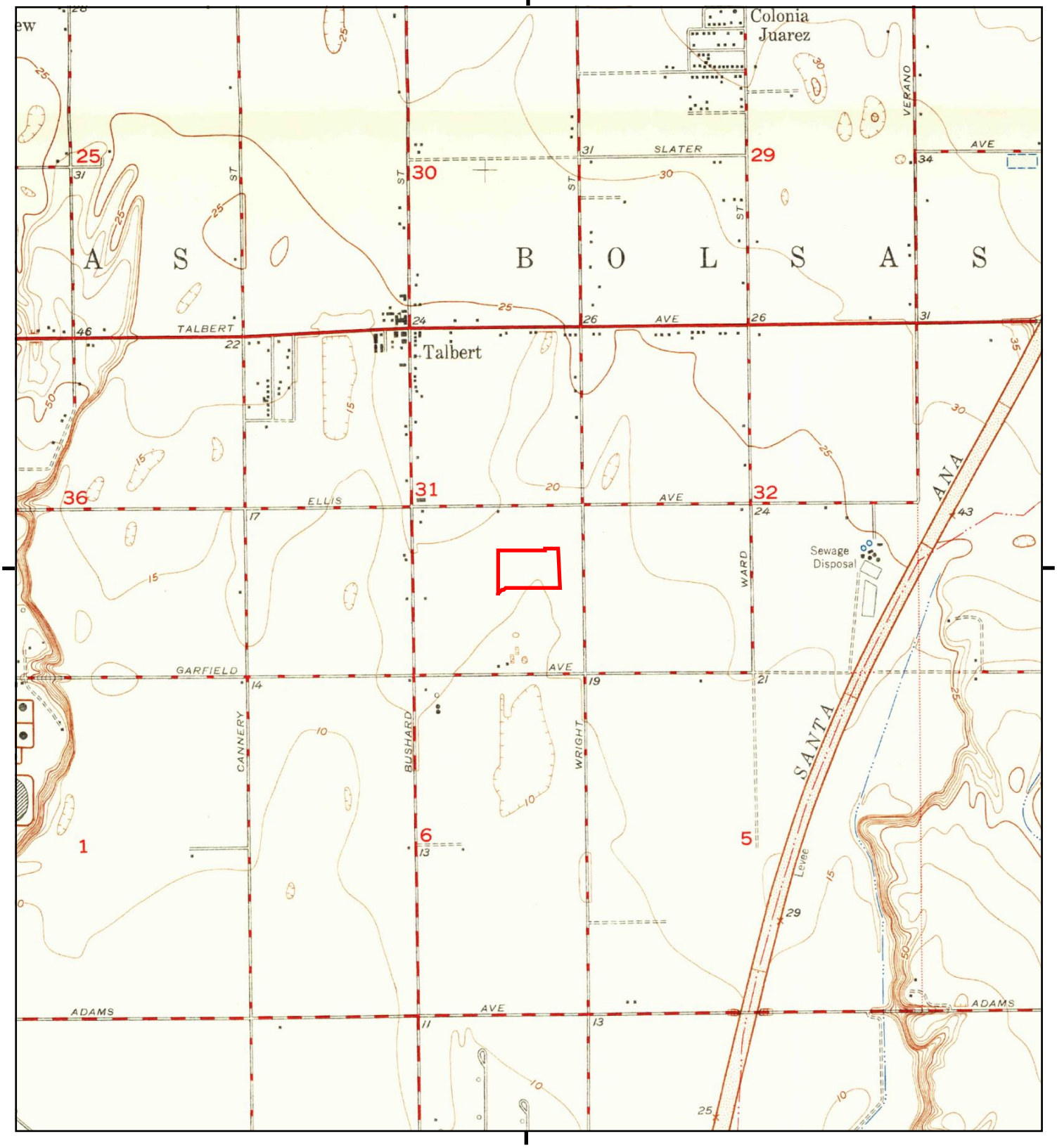
TP, Newport Beach, 1951, 7.5-minute

SITE NAME: Brookfield LA- Fountain Valley
ADDRESS: 9790 Finch Avenue
Fountain Valley, CA 92708
CLIENT: Leighton and Associates, Inc.

N

Historical Topo Map

1949



This report includes information from the following map sheet(s).

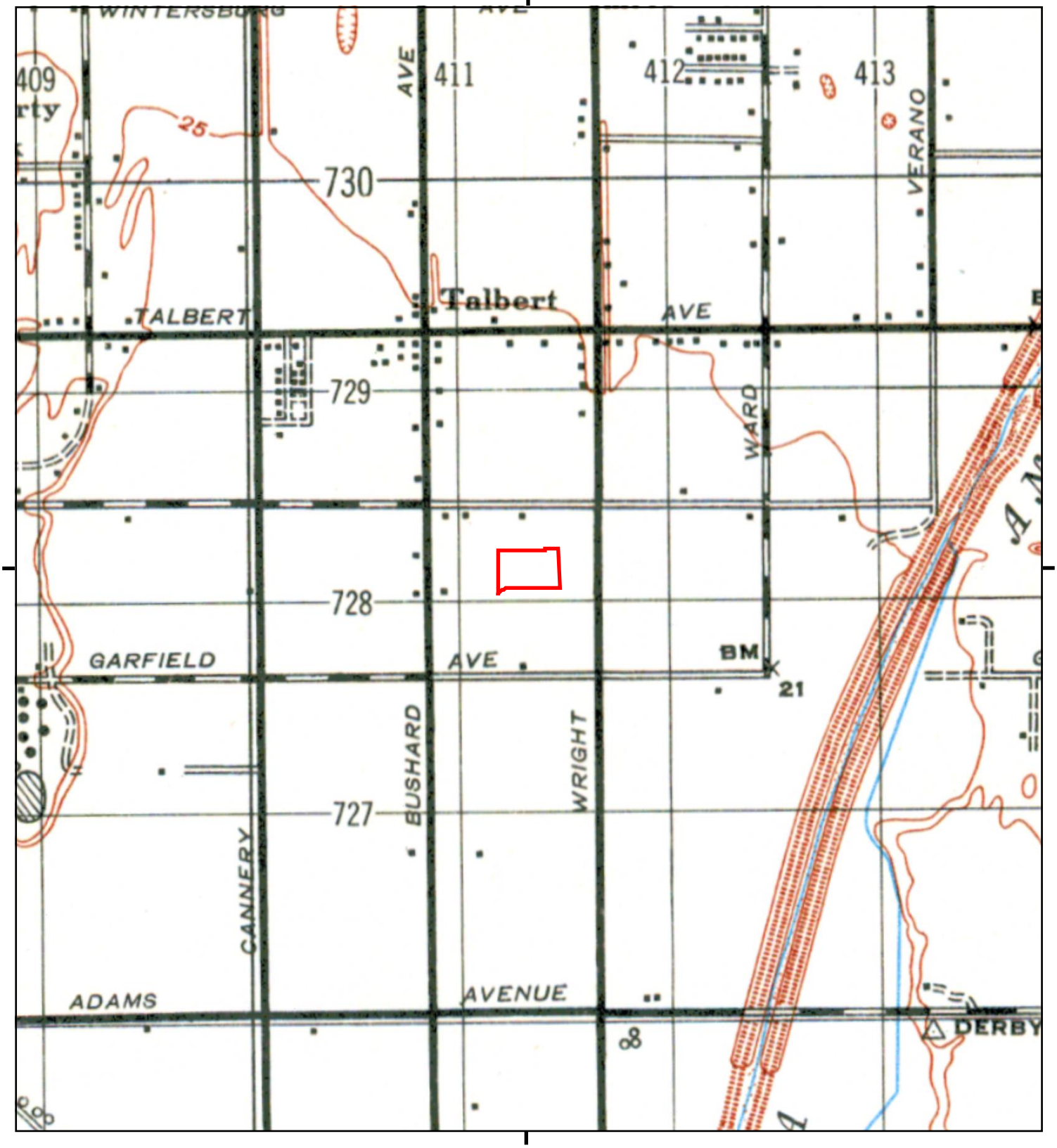
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Newport Beach, 1949, 7.5-minute

SITE NAME: Brookfield LA- Fountain Valley
ADDRESS: 9790 Finch Avenue
Fountain Valley, CA 92708
CLIENT: Leighton and Associates, Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

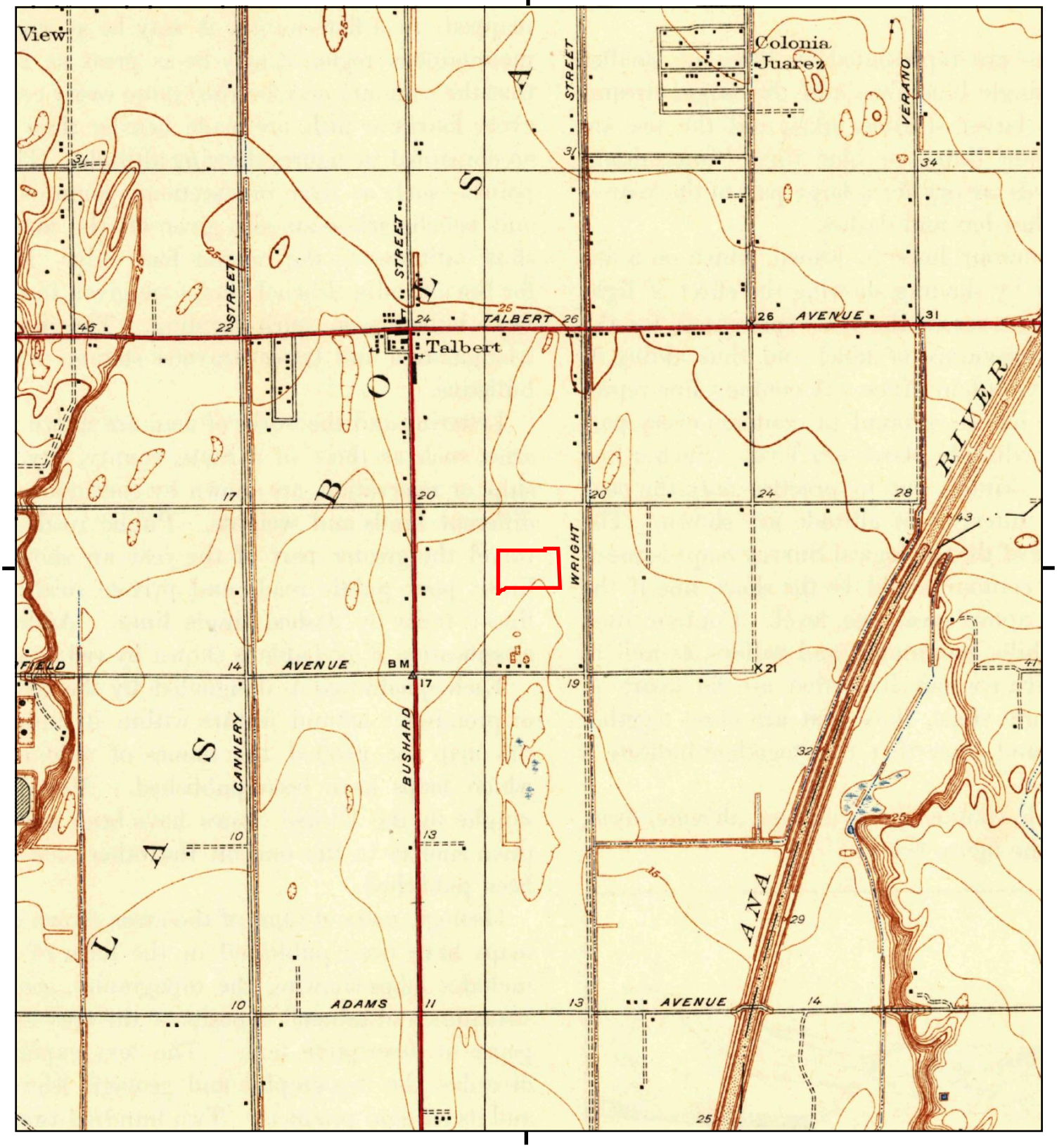
TP, SANTA ANA, 1942, 15-minute

SITE NAME: Brookfield LA- Fountain Valley
ADDRESS: 9790 Finch Avenue
Fountain Valley, CA 92708
CLIENT: Leighton and Associates, Inc.

N

Historical Topo Map

1935



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

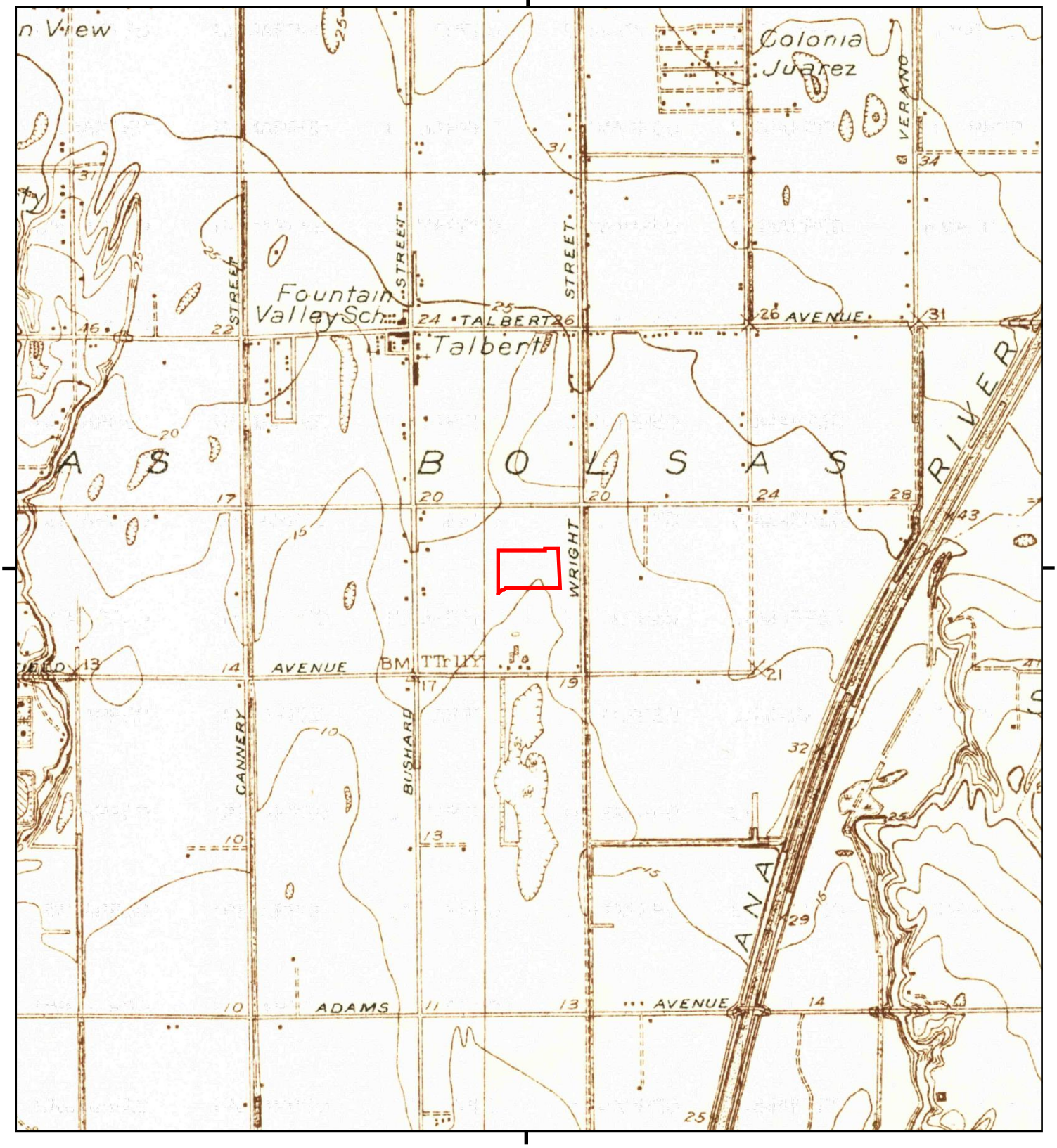
TP, Newport Beach, 1935, 7.5-minute

SITE NAME: Brookfield LA- Fountain Valley
ADDRESS: 9790 Finch Avenue
Fountain Valley, CA 92708
CLIENT: Leighton and Associates, Inc.

N

Historical Topo Map

1932



This report includes information from the following map sheet(s).

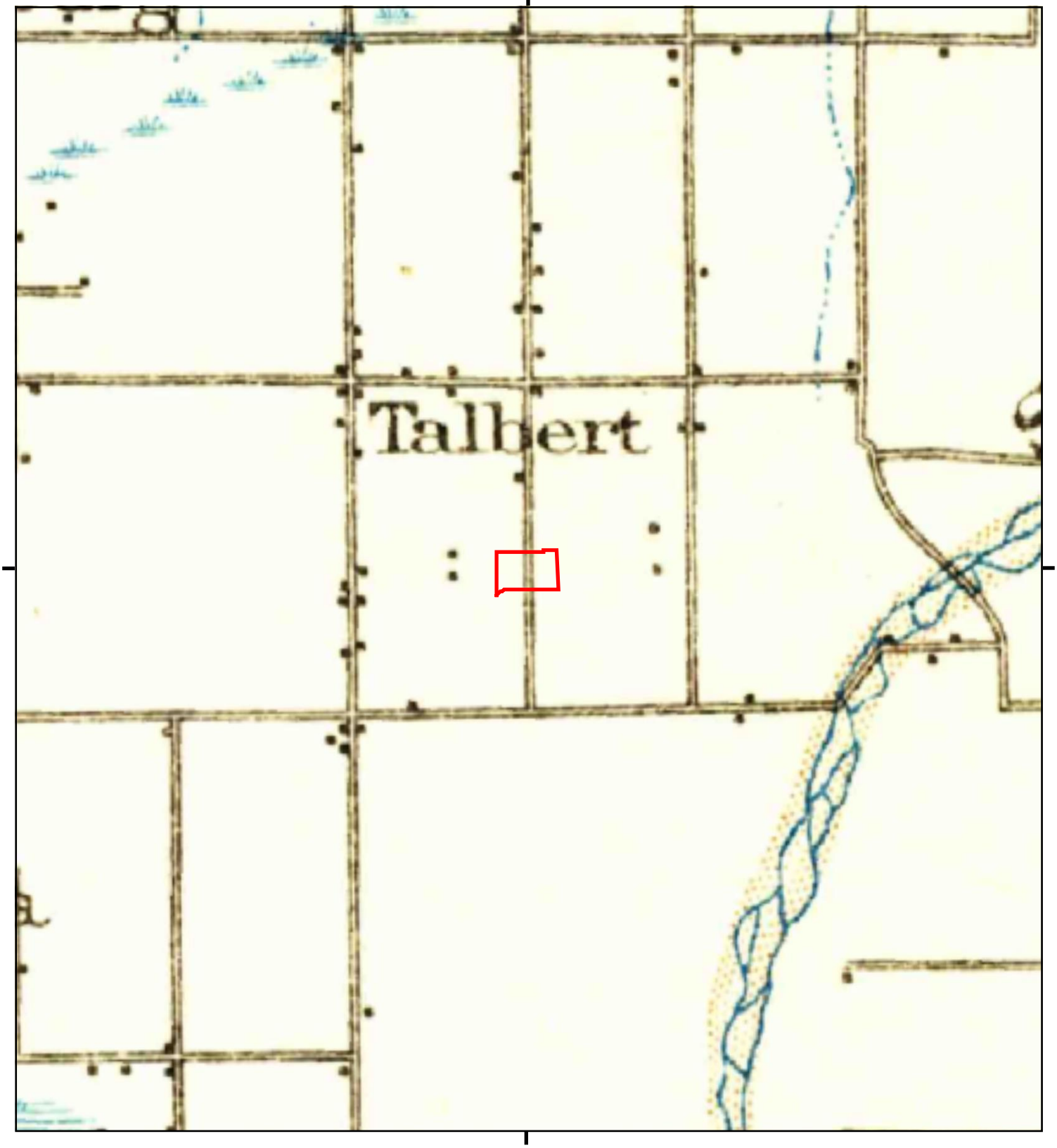
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Newport Beach, 1932, 7.5-minute

SITE NAME: Brookfield LA- Fountain Valley
ADDRESS: 9790 Finch Avenue
Fountain Valley, CA 92708
CLIENT: Leighton and Associates, Inc.

N



This report includes information from the following map sheet(s).

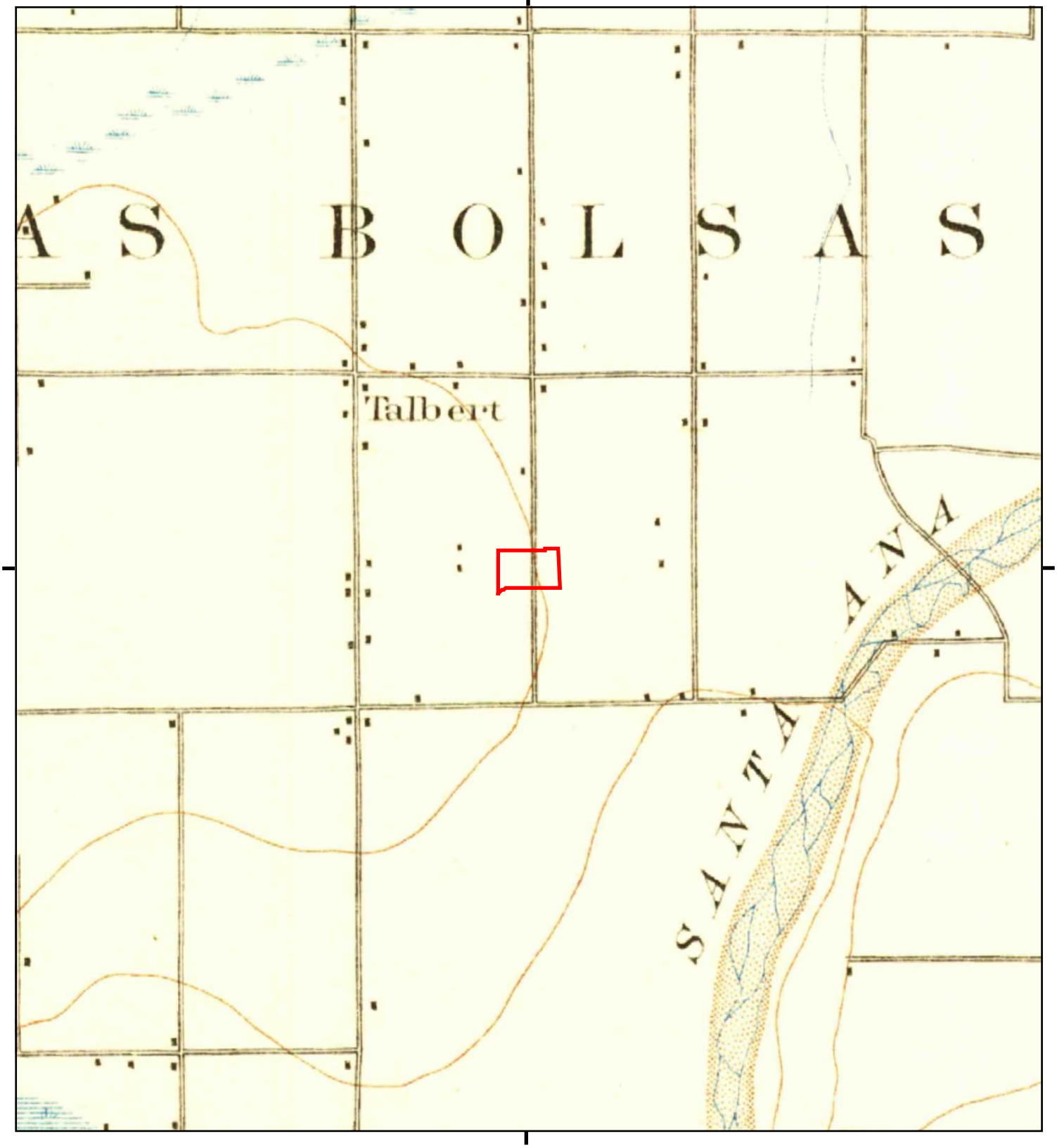
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Corona, 1902, 30-minute

SITE NAME: Brookfield LA- Fountain Valley
ADDRESS: 9790 Finch Avenue
Fountain Valley, CA 92708
CLIENT: Leighton and Associates, Inc.

N



This report includes information from the following map sheet(s).

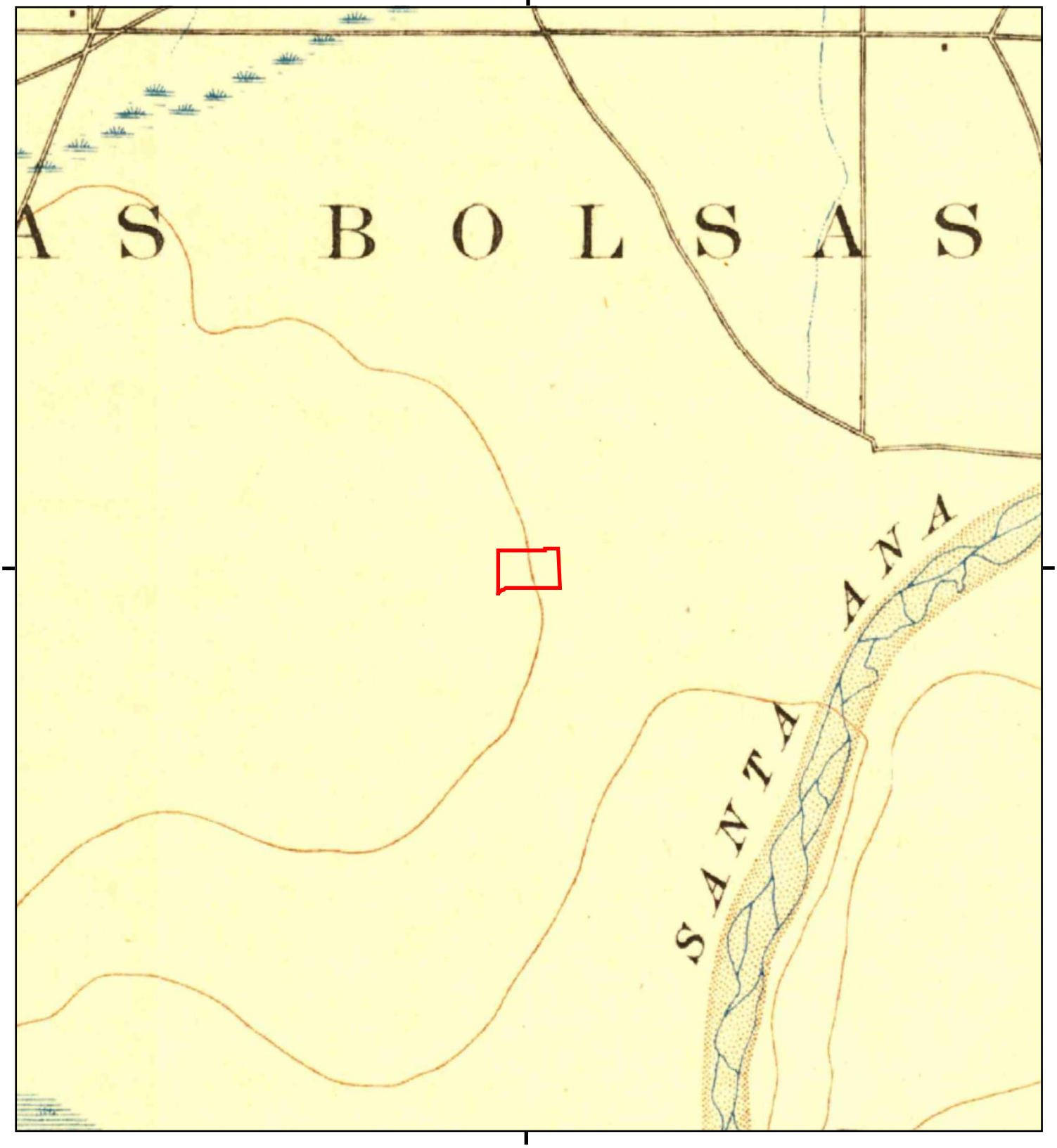
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Santa Ana, 1901, 15-minute

SITE NAME: Brookfield LA- Fountain Valley
ADDRESS: 9790 Finch Avenue
Fountain Valley, CA 92708
CLIENT: Leighton and Associates, Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Santa Ana, 1896, 15-minute

SITE NAME: Brookfield LA- Fountain Valley
ADDRESS: 9790 Finch Avenue
Fountain Valley, CA 92708
CLIENT: Leighton and Associates, Inc.

N

Brookfield LA- Fountain Valley

9790 Finch Avenue

Fountain Valley, CA 92708

Inquiry Number: 5682876.11

June 13, 2019

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

06/13/19

Site Name:

Brookfield LA- Fountain Valley
9790 Finch Avenue
Fountain Valley, CA 92708
EDR Inquiry # 5682876.11

Client Name:

Leighton and Associates, Inc.
17781 Cowan
Irvine, CA 92614
Contact: Sabrina Gonzalez

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Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
1990	1"=500'	Flight Date: September 06, 1990	USDA
1987	1"=500'	Flight Date: March 29, 1987	USDA
1977	1"=500'	Flight Date: January 18, 1977	EDR Proprietary Brewster Pacific
1972	1"=500'	Flight Date: October 30, 1972	USGS
1963	1"=500'	Flight Date: February 28, 1963	USGS
1953	1"=500'	Flight Date: June 02, 1953	USDA
1947	1"=500'	Flight Date: July 01, 1947	FAIR
1938	1"=500'	Flight Date: June 21, 1938	USDA

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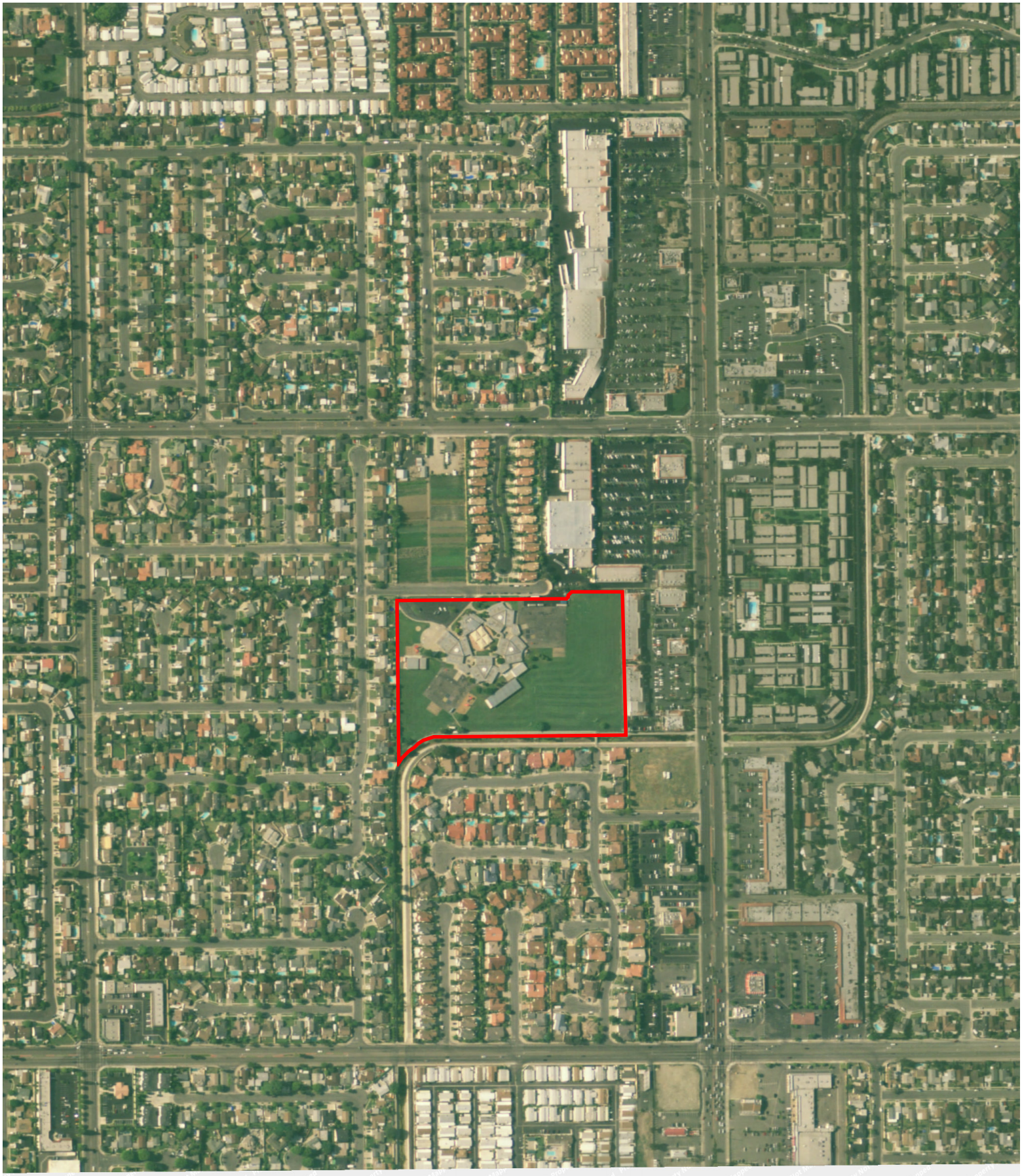
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INQUIRY #: 5682876.11
YEAR: 2016
= 500'
N
EDR


INQUIRY #: 5682876.11
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 5682876.11
YEAR: 2009
= 500'
N
EDR



INQUIRY #: 5682876.11

YEAR: 2005

= 500'

N

EDR



INQUIRY #: 5682876.11

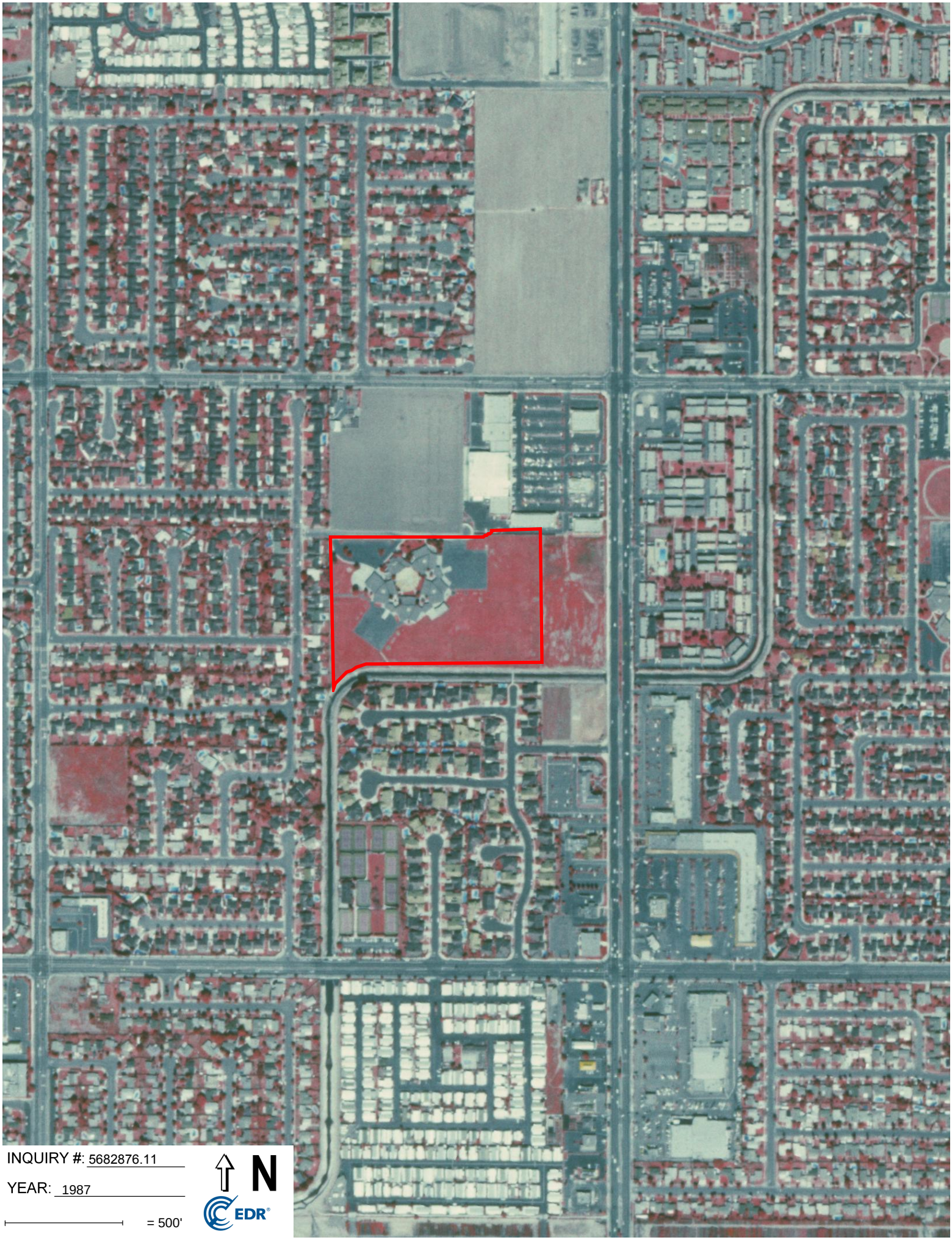
YEAR: 1994

= 500'

N

EDR


INQUIRY #: 5682876.11
YEAR: 1990
= 500'
N
EDR



INQUIRY #: 5682876.11

YEAR: 1987

= 500'

N

EDR


INQUIRY #: 5682876.11
YEAR: 1977
= 500'
N
EDR


INQUIRY #: 5682876.11
YEAR: 1972
= 500'
N
EDR



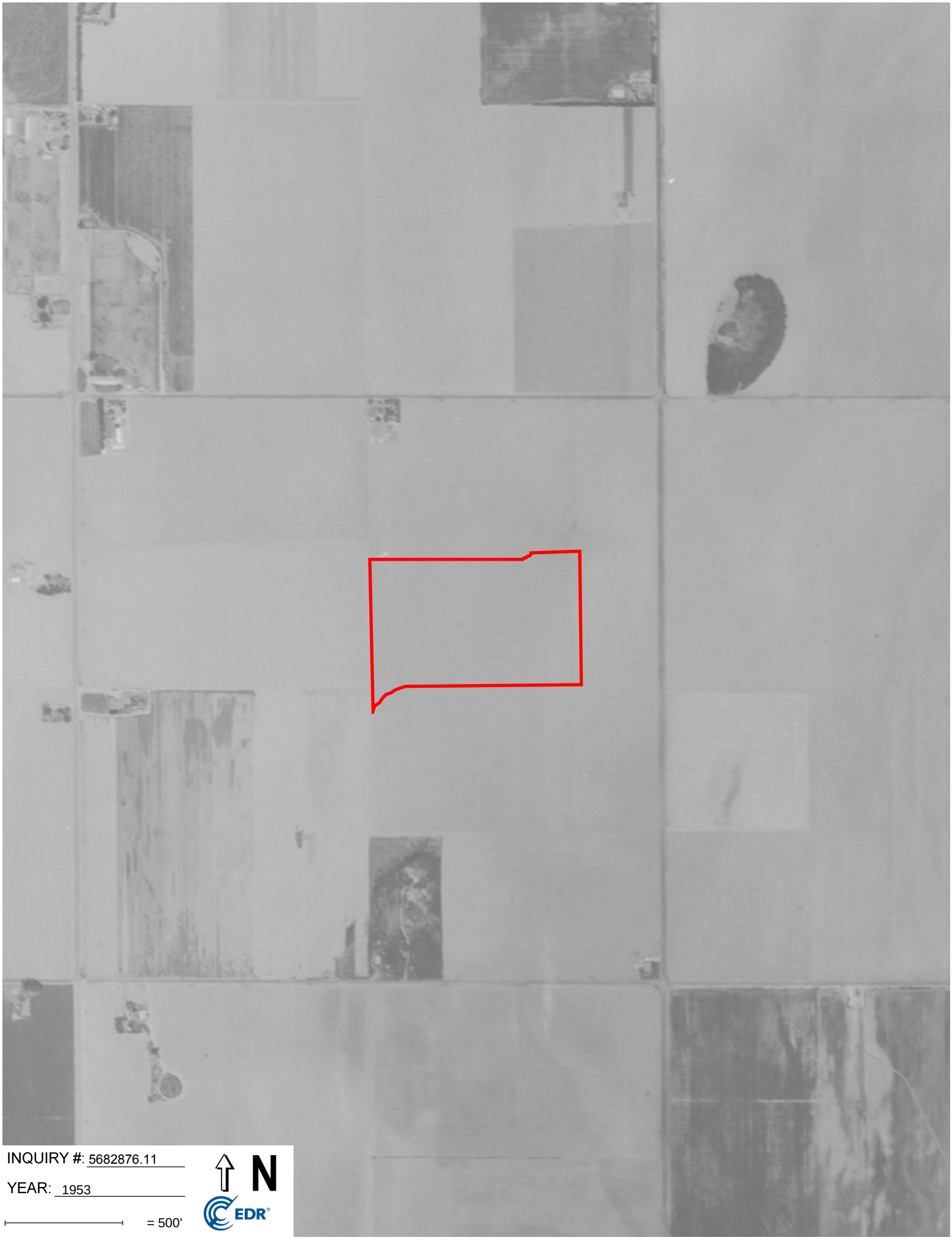
INQUIRY #: 5682876.11

YEAR: 1963

= 500'

N

EDR



INQUIRY #: 5682876.11

YEAR: 1953

= 500'

N

EDR



INQUIRY #: 5682876.11

YEAR: 1947

= 500'

N

EDR



INQUIRY #: 5682876.11

YEAR: 1938

= 500'

N

EDR

Brookfield LA- Fountain Valley
9790 Finch Avenue
Fountain Valley, CA 92708

Inquiry Number: 5682876.5
June 13, 2019

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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EXECUTIVE SUMMARY

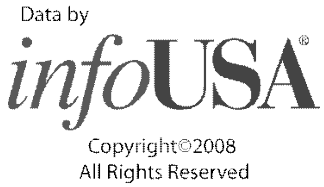
DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2014	☑	☐	EDR Digital Archive
2010	☑	☐	EDR Digital Archive
2005	☑	☐	EDR Digital Archive
2000	☑	☐	EDR Digital Archive
1995	☑	☐	EDR Digital Archive
1992	☑	☐	EDR Digital Archive
1985	☑	☐	Haines Criss-Cross Directory
1980	☑	☐	Haines Criss-Cross Directory
1975	☑	☐	Haines Criss-Cross Directory
1972	☑	☐	Haines Criss-Cross Directory
1965	☐	☐	Luskey City Directory

FINDINGS

TARGET PROPERTY STREET

9790 Finch Avenue
Fountain Valley, CA 92708

Year	*CD Image*	*Source*	
FINCH AVE			
2014	pg A1	EDR Digital Archive	
2010	pg A2	EDR Digital Archive	
2005	pg A3	EDR Digital Archive	
2000	pg A4	EDR Digital Archive	
1995	pg A5	EDR Digital Archive	
1992	pg A6	EDR Digital Archive	
1985	pg A7	Haines Criss-Cross Directory	
1980	pg A8	Haines Criss-Cross Directory	
1975	pg A9	Haines Criss-Cross Directory	
1972	pg A10	Haines Criss-Cross Directory	
1965	-	Luskey City Directory	Target and Adjoining not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

FINCH AVE 2014

9790 FOUNTAIN VALLEY SCHOOL DST
FRED S MOIOLA PTA CALIFORNIA C

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

FINCH AVE 2010

9790 FOUNTAIN VALLEY SCHOOL DST
FRED S MOIOLA PTA CALIFORNIA C

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

FINCH AVE 2005

9790 FOUNTAIN VALLEY SCHOOL DST

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

FINCH AVE 2000

9790 FRED MOIOLA ELEMENTARY SCHOOL

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

FINCH AVE 1995

9790 FRED MOIOLA ELEMENTARY SCHOOL

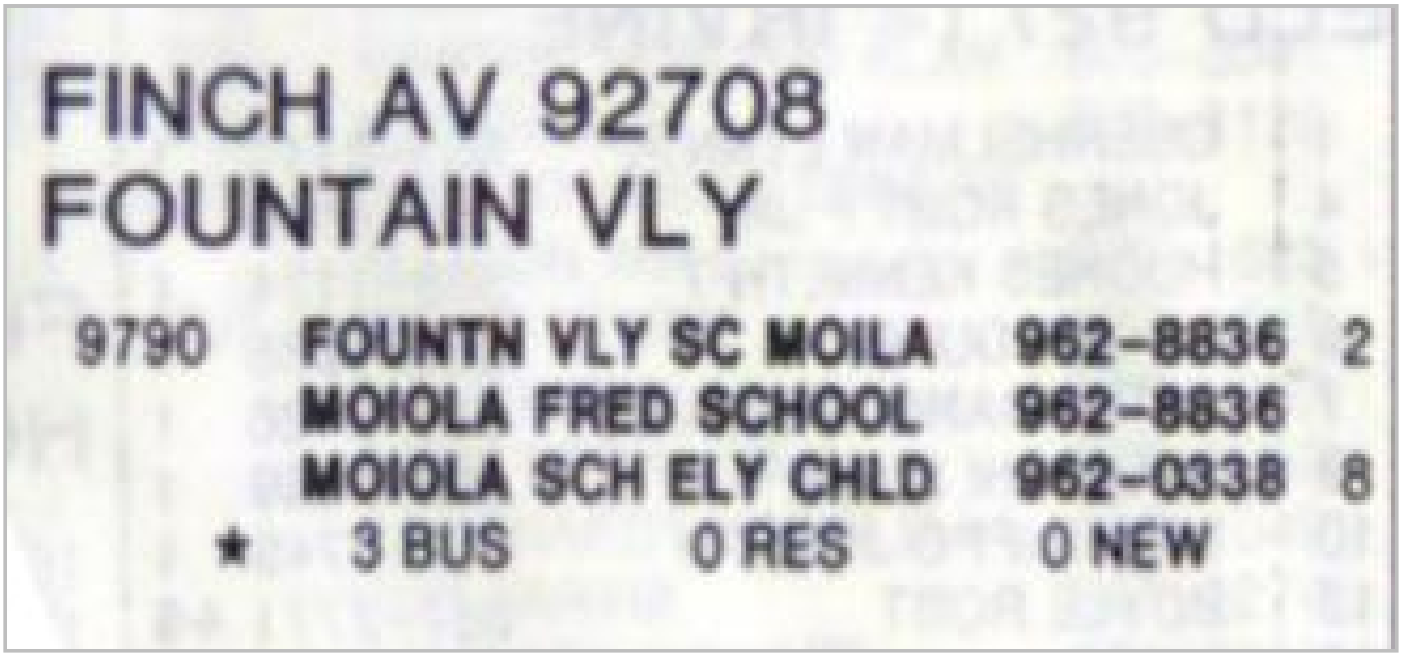
Target Street	Cross Street	Source
✓	-	EDR Digital Archive

FINCH AVE 1992

9790 FRED MOIOLA ELEMENTARY SCHOOL

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

FINCH AVE 1985

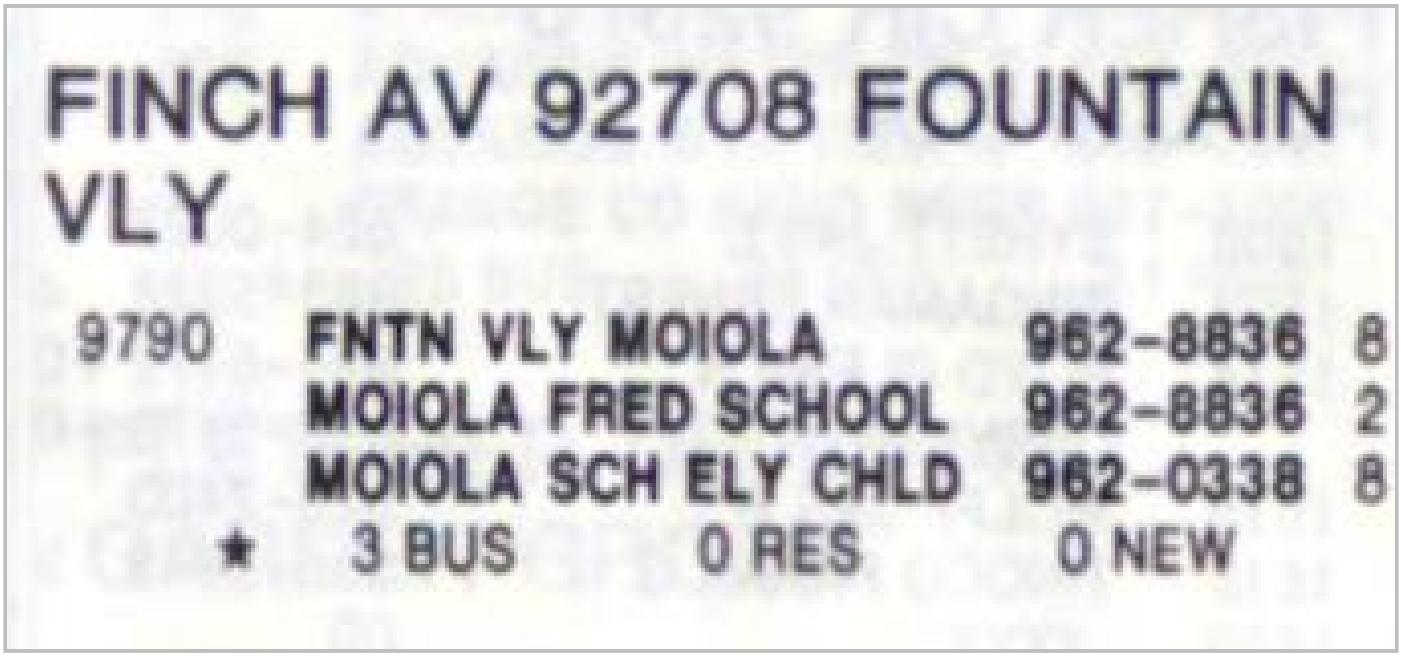


FINCH AV 92708
FOUNTAIN VLY

9790	FOUNTN VLY SC MOILA	962-8836	2
	MOIOLA FRED SCHOOL	962-8836	
	MOIOLA SCH ELY CHLD	962-0338	8
*	3 BUS	0 RES	0 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

FINCH AVE 1980

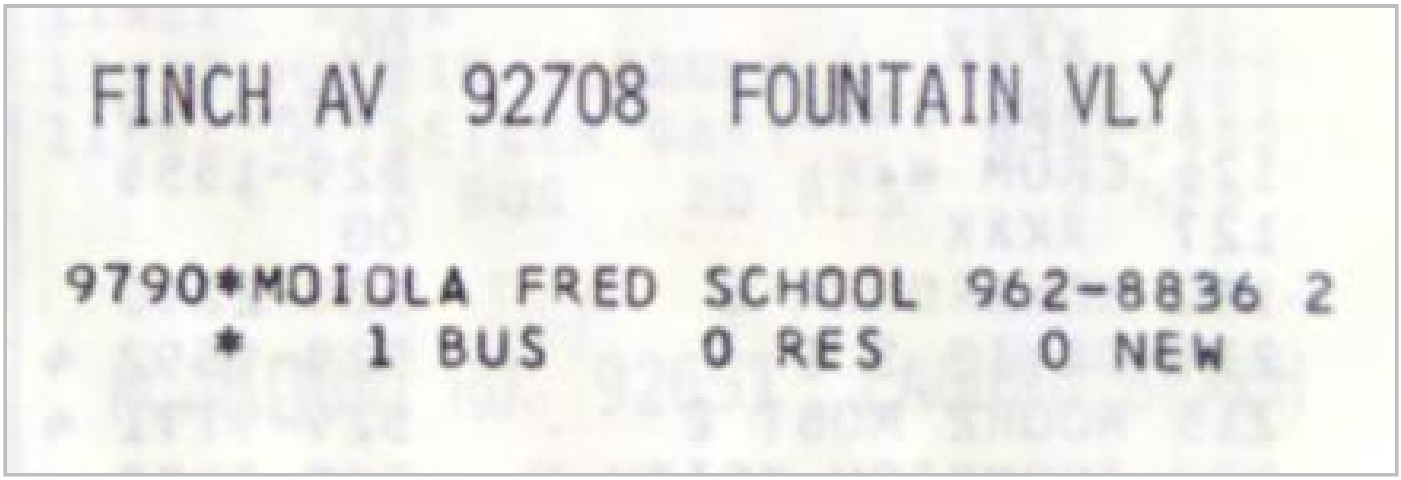


FINCH AV 92708 FOUNTAIN VLY

9790	FNTN VLY MOIOLA	962-8836	8
	MOIOLA FRED SCHOOL	962-8836	2
	MOIOLA SCH ELY CHLD	962-0338	8
*	3 BUS	0 RES	0 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

FINCH AVE 1975

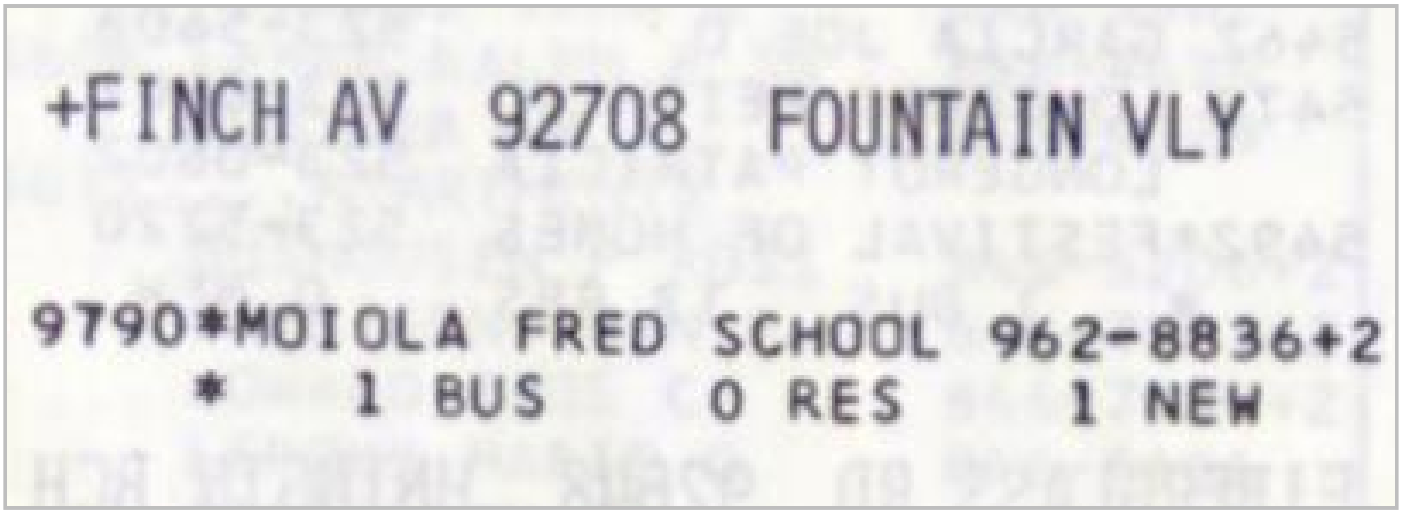


FINCH AV 92708 FOUNTAIN VLY

9790*MOIOLA FRED SCHOOL 962-8836 2
* 1 BUS 0 RES 0 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

FINCH AVE 1972



Brookfield LA- Fountain Valley
9790 Finch Avenue
Fountain Valley, CA 92708

Inquiry Number: 5682876.6
June 13, 2019

The EDR Property Tax Map Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

Thank you for your business.
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with any questions or comments.

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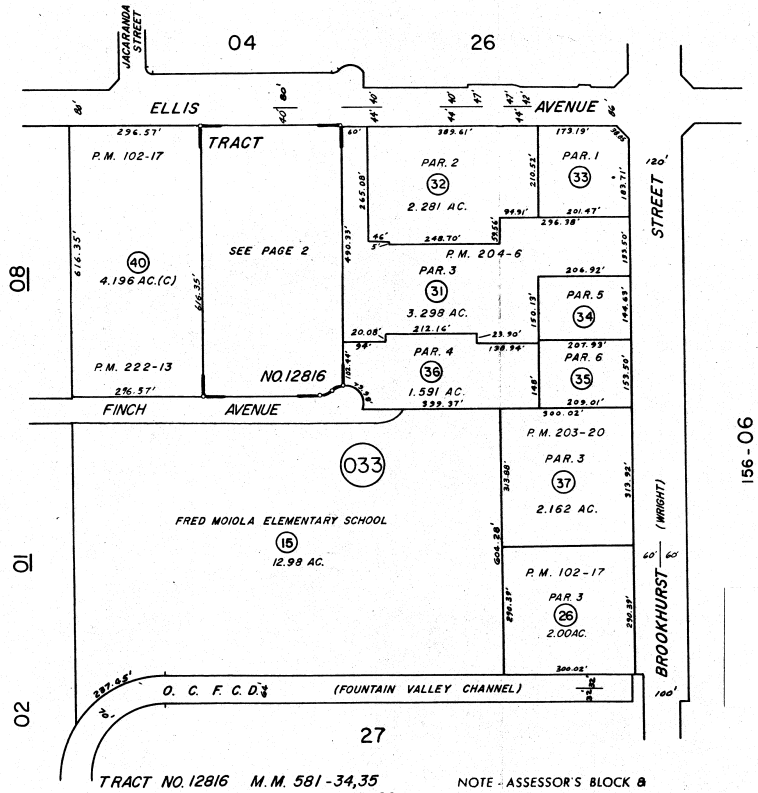
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POR. E. 1/2, S.E. 1/4, SEC. 31, T. 5 S., R. 10 W.

157-03
PAGE 1 OF 2



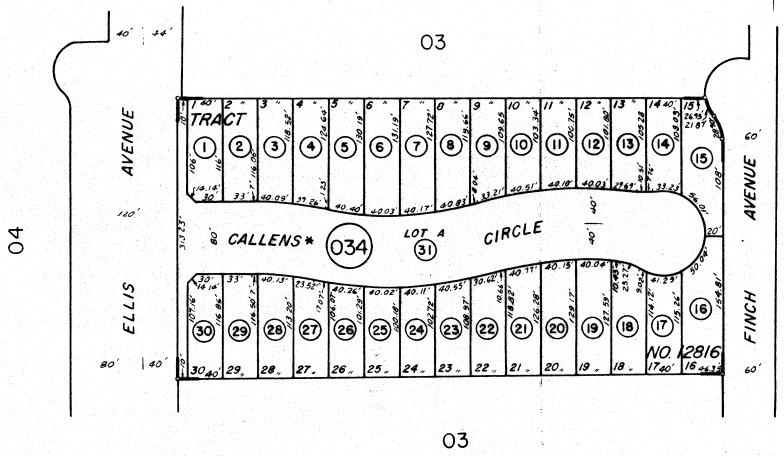
MARCH 1970

TRACT NO. 12816 M.M. 581-34,35
PARCEL MAP P.M. 102-17, 203-20
P.M. 204-6, 222-13

NOTE - ASSESSOR'S BLOCK & PARCEL NUMBERS SHOWN IN CIRCLES

ASSESSOR'S MAP
BOOK 157 PAGE 03
COUNTY OF ORANGE

1" = 100'



* PRIVATE STREET

MARCH 1970 TRACT NO. 12816 M.M. 581 - 34,35

NOTE - ASSESSOR'S BLOCK & PARCEL NUMBERS SHOWN IN CIRCLES

ASSESSOR'S MAP
BOOK 157 PAGE 034
COUNTY OF ORANGE

Brookfield LA- Fountain Valley
9790 Finch Avenue
Fountain Valley, CA 92708

Inquiry Number: 5682876.8
June 13, 2019

EDR Building Permit Report

Target Property and Adjoining Properties

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.

EDR® Environmental Data Resources Inc

BUILDFAX® PROPERTY HISTORY

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of Leighton and Associates, Inc. on Jun 13, 2019.

TARGET PROPERTY

9790 Finch Avenue
Fountain Valley, CA 92708

SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

RESEARCH SUMMARY

Building permits identified: **YES**

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Fountain Valley

Year	*Source*	*TP*	*Adjoining*
2016	City of Fountain Valley, PLANNING & BUILDING DEPA		X
2015	City of Fountain Valley, PLANNING & BUILDING DEPA		X
2014	City of Fountain Valley, PLANNING & BUILDING DEPA		X
2013	City of Fountain Valley, PLANNING & BUILDING DEPA		X
2012	City of Fountain Valley, PLANNING & BUILDING DEPA		X
2011	City of Fountain Valley, PLANNING & BUILDING DEPA		X
2010	City of Fountain Valley, PLANNING & BUILDING DEPA		
2009	City of Fountain Valley, PLANNING & BUILDING DEPA		
2008	City of Fountain Valley, PLANNING & BUILDING DEPA		
2007	City of Fountain Valley, PLANNING & BUILDING DEPA		
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1995	City of Fountain Valley, PLANNING & BUILDING DEPA		
1994	City of Fountain Valley, PLANNING & BUILDING DEPA		
1993	City of Fountain Valley, PLANNING & BUILDING DEPA		
1992	City of Fountain Valley, PLANNING & BUILDING DEPA		
1991	City of Fountain Valley, PLANNING & BUILDING DEPA		
1990	City of Fountain Valley, PLANNING & BUILDING DEPA		

Name: JurisdictionName
Years: Years
Source: Source
Phone: Phone

BUILDING DEPARTMENT RECORDS SEARCHED

Name: Fountain Valley
Years: 1990-2016
Source: City of Fountain Valley, PLANNING & BUILDING DEPARTMENT, FOUNTAIN VALLEY, CA
Phone: (714) 593-4400

Name: Orange County
Years: 1988-2019
Source: Orange County, Planning and Development Services, LAKE FOREST, CA
Phone: (714) 834-5238

Name: Huntington Beach
Years: 1964-2019
Source: Huntington Beach, Dept. of Building and Safety, HUNTINGTON BEACH, CA
Phone: (714) 536-5241

TARGET PROPERTY FINDINGS

TARGET PROPERTY DETAIL

9790 Finch Avenue
Fountain Valley, CA 92708

No Permits Found

ADJOINING PROPERTY FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

BROOKHURST ST

18579 BROOKHURST ST

Date:	**12/3/2013**
Permit Type:	
Description:	**PERMIT TO CHANGE OUT SERVICE MEAT CASES, LIKE FOR LIKE**
Permit Description:	**MECHANICAL**
Work Class:	
Proposed Use:	
Permit Number:	2013-163
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MARKET REFRIGERATION SPECIALISTS

BROOKHURST ST # 18

18591 BROOKHURST ST # 18

Date:	**7/21/2015**
Permit Type:	
Description:	**PERMIT FOR T-MOBILE TO INSTAL (3) 6 FT. ANTENNAS AND (3) REMOTE RADIO UNITS ON EXISTING FAUX PALM TREE WIRELESS FACILITY**
Permit Description:	**CELL SITE**
Work Class:	
Proposed Use:	
Permit Number:	2015-365
Status:	
Valuation:	$20,000.00
Contractor Company:	
Contractor Name:	NUWAVE COMMUNICATIONS

ADJOINING PROPERTY FINDINGS

CALLENS CIR

18527 CALLENS CIR

Date:	**6/12/2012**
Permit Type:	
Description:	**PERMIT FOR AN ALUM. PATIO COVER W/LIGHT WEIGHT ROOF TILE TO MATCH EXISTING RESIDENCE. ELECTRICAL (4) LIGHTS, (1) CEILING FAN, (2) SWITCHES.**
Permit Description:	**MISCELLANEOUS - PATIO COVER**
Work Class:	
Proposed Use:	
Permit Number:	19012
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ALL-PRO REM0DELING

18536 CALLENS CIR

Date:	**3/3/2016**
Permit Type:	
Description:	**WINDOW & DOOR REPLACEMENT, REPLACE 23 WINDOWS AND 3 SLIDING DOORS RETRO-FIT, SAME SIZE AND LOCATION**
Permit Description:	**WINDOWS/DOORS**
Work Class:	
Proposed Use:	
Permit Number:	2016-326
Status:	
Valuation:	$13,000.00
Contractor Company:	
Contractor Name:	CALIFORNIA REPLACEMENT WINDOWS INC.

ADJOINING PROPERTY FINDINGS

18559 CALLENS CIR

Date:	**11/4/2015**
Permit Type:	
Description:	**INSTALLATION OF A SOLAR PV SYSTEM ON AN EXISTING RESIDENTIAL ROOF TOP. 19 PANELS, 4.2 KW**
Permit Description:	**SOLAR PANELS**
Work Class:	
Proposed Use:	
Permit Number:	2015-1346
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PROGRESSIVE POWER GROUP

Date:	**10/7/2015**
Permit Type:	
Description:	**PERMIT FOR NEW 200 AMP MSP FOR SOLAR PANEL SYSTEM. REF 2015-1513 FOR SOLAR PANEL SYSTEM.**
Permit Description:	**ELECTRICAL PANEL UPGRADE**
Work Class:	
Proposed Use:	
Permit Number:	2015-1513
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PROGRESSIVE POWER GROUP

ADJOINING PROPERTY FINDINGS

18575 CALLENS CIR

Date:	**4/18/2011**
Permit Type:	
Description:	**REVISION TO PERM # 16380 TO CHANGE THE DIRECTION OF THE BEAM TO SUPPORT THE EXISTING FLOOR JOIST**
Permit Description:	**REVISION**
Work Class:	
Proposed Use:	
Permit Number:	16742
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**3/18/2011**
Permit Type:	
Description:	**REMODEL EXISTING KITCHEN CF-6R-LTG-01 FORM DUE AT FINAL INSPECTION**
Permit Description:	**REMODEL**
Work Class:	
Proposed Use:	
Permit Number:	16380
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	OWNER BUILDER

ADJOINING PROPERTY FINDINGS

18583 CALLENS CIR

Date:	**12/19/2012**
Permit Type:	
Description:	**PERMIT TO UPGRADE ELECTRICAL PANEL TO 200 AMPS SAME LOCATION PASSED ROUGH, THEN HAD CORR.**
Permit Description:	**MISCELLANEOUS**
Work Class:	
Proposed Use:	
Permit Number:	20281
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ELECTRIC ETC INC

18615 CALLENS CIR

Date:	**11/18/2014**
Permit Type:	
Description:	**PERMIT FOR A NEW 2.295 KW ROOF TOP SOLAR PV SYSTEM. 9 MODULES AND 1 INVERTER EXPIRED: NO INSPECTION OVER A YEAR AGO. [1/20/16]**
Permit Description:	**SOLAR PANELS**
Work Class:	
Proposed Use:	
Permit Number:	2014-1487
Status:	
Valuation:	$8,000.00
Contractor Company:	
Contractor Name:	SOLARCITY CORP

ADJOINING PROPERTY FINDINGS

REDWOOD CIR

18524 REDWOOD CIR

Date:	**11/14/2011**
Permit Type:	
Description:	**PERMIT TO REMOVE (E) SLIDING GLASS DOOR AND ADD A WINDOW. CONTRACTOR TO SUBMIT COMPLETED CF-6R-ALT-ENV-01 FORM AT FINAL INSPECTION**
Permit Description:	**WINDOWS/DOORS**
Work Class:	
Proposed Use:	
Permit Number:	17978
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

18548 REDWOOD CIR

Date:	**12/18/2013**
Permit Type:	
Description:	**PERMIT; COPPER RE-PIPE THE WHOLE HOUSE.**
Permit Description:	**PLUMBING**
Work Class:	
Proposed Use:	
Permit Number:	2013-242
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PROFESSIONAL PLUMBING SERVICE

ADJOINING PROPERTY FINDINGS

Date:	**12/18/2013**
Permit Type:	
Description:	**PERMIT FOR A BATHROOM REMODEL, REPLACE TOILET, SHOWER, WITH TILE. NO ELECTRICAL OR MECHANICAL.**
Permit Description:	**REMODEL**
Work Class:	
Proposed Use:	
Permit Number:	2013-246
Status:	
Valuation:	$2,500.00
Contractor Company:	
Contractor Name:	TREEIUM INS

Date:	**12/18/2013**
Permit Type:	
Description:	**PERMIT TO REWIRE OVER HOUSE, ADD NEW ELECTRICAL LIGHTS (LED, CERTIFIED TO ENERGY COMMISSION) OUTLETS (GFCI) (AFCI), SWITCHES. UPGRADE MAIN PANEL 200 AMP. NEW CARBON MONOXIDE & SMOKE DETECTOR (BATTERY OPERATED). ALL WORK TO COMPLY IBC & ENERGY COMMISSION.**
Permit Description:	**ELECTRICAL**
Work Class:	
Proposed Use:	
Permit Number:	2013-260
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A.M ELECTRIC LIGHTING

ADJOINING PROPERTY FINDINGS

Date:	**12/3/2013**
Permit Type:	
Description:	**PERMIT FOR A KITCHEN REMODEL, NEW ISLAND, REMOVE FLUORESCENT LIGHTS IN CEILING AND DRYWALL, INSTALL LED CAN LIGHTS (CERTIFIED TO THE ENERGY COMMISSION), REPLACE APPLIANCES. ALL OUTLETS ALONG COUNTERTOP ARE UP TO CURRENT CODE PER CONTRACTOR.**
Permit Description:	**REMODEL**
Work Class:	
Proposed Use:	
Permit Number:	2013-157
Status:	
Valuation:	$5,000.00
Contractor Company:	
Contractor Name:	TREEIUM INS

18561 REDWOOD CIR

Date:	**2/27/2015**
Permit Type:	
Description:	**INSTALL SOLAR (12) PANELS, (12) MICROINVERTERS, 3.0 KW. EXISTING 200 AMP PANEL.**
Permit Description:	**SOLAR PANELS**
Work Class:	
Proposed Use:	
Permit Number:	2015-099
Status:	
Valuation:	$8,000.00
Contractor Company:	
Contractor Name:	SOLAR SERVICE CENTER, INC

ADJOINING PROPERTY FINDINGS

18572 REDWOOD CIR

Date:	**11/10/2015**
Permit Type:	
Description:	**REPLACING 10 WINDOW AND 1 PATIO DOOR, RETROFITS, LIKE FOR LIKE. PER CITY HANDOUT AND ALL BEDROOMS TO MEET CURRENT EGRESS AND U-FACTOR OF MAX 0.32 AND SHGC OF .25. STICKERS TO REMAIN ON WINDOW FOR INSPECTOR TO VERIFY**
Permit Description:	**WINDOWS/DOORS**
Work Class:	
Proposed Use:	
Permit Number:	2015-1715
Status:	
Valuation:	$11,512.00
Contractor Company:	
Contractor Name:	WINDOWS & MOHR

18584 REDWOOD CIR

Date:	**1/4/2016**
Permit Type:	
Description:	**C/O 3 TON AC CONDENSER UNIT AND 70K BTU FURNACE, SAME LOCATIONS, LIKE FOR LIKE. CF1R IN FILE, HERS TESTING REQUIRED.**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	
Permit Number:	2016-009
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SERVICE CHAMPIONS

ADJOINING PROPERTY FINDINGS

Date:	**3/31/2015**
Permit Type:	
Description:	**PERMIT TO REPLACE 7 DUCTS HERS VERIFICATION IS REQUIRED**
Permit Description:	**MECHANICAL**
Work Class:	
Proposed Use:	
Permit Number:	2015-447
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SERVICE CHAMPIONS

Date:	**3/18/2015**
Permit Type:	
Description:	**PERMIT FOR 8 RETROFIT WINDOWS, 1 RETROFIT PATIO DOOR AND 2 NAIL ON CUT DOWN WINDOWS. NO HEADER CHANGES, U-FACTOR .030, .029 & 0.32 SHGC 0.17 ALL PER CITY HANDOUT AND CURRENT CODE**
Permit Description:	**WINDOWS/DOORS**
Work Class:	
Proposed Use:	
Permit Number:	2015-378
Status:	
Valuation:	$8,600.00
Contractor Company:	
Contractor Name:	PACIFIC SHORE DISTRIBUTING INC.

ADJOINING PROPERTY FINDINGS

18585 REDWOOD CIR

Date:	**5/4/2015**
Permit Type:	
Description:	**PERMIT FOR HVAC C/O, SAME LOCATION. A/C 3.5 TON, FAU 40K**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	
Permit Number:	2015-653
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SERVICE CHAMPIONS

REDWOOD ST

18654 REDWOOD ST

Date:	**5/13/2013**
Permit Type:	
Description:	**PERMIT TO REMOVE EXISTING ROOF HOUSE & GARAGE AND INSTALL NEW PLYWOOD 30YR COMP SHINGLES OWENS CORNING ON 4:12 SLOPE.**
Permit Description:	**REROOF**
Work Class:	
Proposed Use:	
Permit Number:	21113
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	FIRST PRIORITY ROOFING

ADJOINING PROPERTY FINDINGS

18663 REDWOOD ST

Date:	**5/13/2015**
Permit Type:	
Description:	**5/13/2015 FIELD MODIFICATIONS: ADD LED RECESS LIGHTS, SUBPANEL, RELOCATE FAU, RECONFIGURE SOME NON STRUC. INTERIOR WALLS. TO PERMIT 2014-870**
Permit Description:	**REMODEL**
Work Class:	
Proposed Use:	
Permit Number:	2015-726
Status:	
Valuation:	$1,000.00
Contractor Company:	
Contractor Name:	GUS OROZO

Date:	**12/9/2014**
Permit Type:	
Description:	**PERMIT TO REMODEL EXISTING HOUSE AND ADD 1229 SF. NEW 2ND STORY 235 SQ.FT. HERS WILL BE REQUIRED DUE TO THE DUCTS BEING INSTALLED. A/C TO BE ON A SEPARATE PERMIT, NEED SITE PLAN. NO ADDITIONAL BEDROOMS. T24 DOCUMENTS DO NOT SHOW THE NEW CODE AS OF 7/1/14**
Permit Description:	**ADDITION & REMODEL**
Work Class:	
Proposed Use:	
Permit Number:	2014-870
Status:	
Valuation:	$100,000.00
Contractor Company:	
Contractor Name:	GUS OROZO

ADJOINING PROPERTY FINDINGS

18699 REDWOOD ST

Date:	**6/6/2013**
Permit Type:	
Description:	**PERMIT TO REPAIR EXISTING BALCONY AND COVER THE BALCONY FLOOR WITH WATER PROOF & TILE. REMOVING STAIRS OUTSIDE THE HOUSE.**
Permit Description:	**BALCONY REPAIR**
Work Class:	
Proposed Use:	
Permit Number:	20558
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ENVY CONSTRUCTION

18700 REDWOOD ST

Date:	**2/26/2015**
Permit Type:	
Description:	**PERMIT TO REPAIR THE MAIN SEWER LINE AND INSTALL A CLEAN OUT**
Permit Description:	**PLUMBING**
Work Class:	
Proposed Use:	
Permit Number:	2015-276
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	DRAIN RIGHT

ADJOINING PROPERTY FINDINGS

Date:	**1/14/2015**
Permit Type:	
Description:	**PERMIT TO REMOVE EXISTING TUB, REPLACE WITH WALK IN TUB (EXISTING WALL TILE). 2 GFCI OUTLETS, DEDICATED 20AMP CIRCUIT FOR THE TUB. MINOR DRYWALL REPAIR.**
Permit Description:	**PLUMBING**
Work Class:	
Proposed Use:	
Permit Number:	2015-070
Status:	
Valuation:	$200.00
Contractor Company:	
Contractor Name:	SAFE STEP WALK IN TUB CO.

18710 REDWOOD ST

Date:	**6/6/2016**
Permit Type:	
Description:	**TILE ABOVE TUB TO CEILING AND REPLACE BATHTUB.**
Permit Description:	**REMODEL**
Work Class:	
Proposed Use:	
Permit Number:	2016-782
Status:	
Valuation:	$1,300.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**5/31/2016**
Permit Type:	
Description:	**REPIPE HOUSE W/PEX PIPE. CERT CARD IN FILE.**
Permit Description:	**PLUMBING**
Work Class:	
Proposed Use:	
Permit Number:	2016-757
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	REPIPE PRO

Date:	**6/2/2014**
Permit Type:	
Description:	**PERMIT TO REMOVE ROOF AND INSTALL NEW COMP ROOF INSTALL 7/16" SHEATHING AND 30# FELT AND NEW COMP ROOF**
Permit Description:	**REROOF**
Work Class:	
Proposed Use:	
Permit Number:	2014-667
Status:	
Valuation:	$11,000.00
Contractor Company:	
Contractor Name:	RC ROOFING

ADJOINING PROPERTY FINDINGS

STARLING AVE

9700 STARLING AVE

Date:	**10/7/2014**
Permit Type:	
Description:	**PERMIT TO REPLACE 1 NAIL-ON WINDOW, LIKE FOR LIKE, NO HEADER CHANGE IN BATHROOM. U-FACTOR 0.32 & SHGC 0.21**
Permit Description:	**WINDOWS**
Work Class:	
Proposed Use:	
Permit Number:	2014-1382
Status:	
Valuation:	$675.00
Contractor Company:	
Contractor Name:	PACIFIC SHORE DISTRIBUTING INC.

Date:	**9/10/2014**
Permit Type:	
Description:	**PERMIT TO REPLACE ONE NAIL ON PATIO DOOR LIKE FOR LIKE NO HEADER CHANGE, UFACTOR .30 AND SHCG .19**
Permit Description:	**WINDOWS**
Work Class:	
Proposed Use:	
Permit Number:	2014-1233
Status:	
Valuation:	$1,900.00
Contractor Company:	
Contractor Name:	PACIFIC SHORE DISTRIBUTING INC.

GLOSSARY

General Building Department concepts

- **ICC:** The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- **Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections):** This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- **Jurisdiction:** This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- **Journeymen:** Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- **ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release):** Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- **"Pull" a permit:** To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- **Planning Department:** The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- **Zoning District:** A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- **PIN (TMS, GIS ID, Parcel#):** Property Identification Number and Tax Map System number.
- **State Card (Business license):** A license card issued to a contractor to conduct business.
- **Building Inspector (Inspector):** The inspector is a building department employee that inspects building construction for compliance to codes.
- **C.O.:** Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

GLOSSARY

Permit Content Definitions

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use(s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

Sample Building Permit Data

Date: Nov 09, 2000
Permit Type: Bldg -
New Permit Number: 101000000405
Status: Valuation: $1,000,000.00
Contractor Company: OWNER-BUILDER
Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

Brookfield LA- Fountain Valley
9790 Finch Avenue
Fountain Valley, CA 92708

Inquiry Number: 5682876.2s
June 13, 2019

The EDR Radius Map™ Report with GeoCheck®

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www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

9790 FINCH AVENUE
FOUNTAIN VALLEY, CA 92708

COORDINATES

Latitude (North):	33.6913580 - 33° 41' 28.88''
Longitude (West):	117.9569000 - 117° 57' 24.84''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	411310.5
UTM Y (Meters):	3728152.5
Elevation:	13 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640950 NEWPORT BEACH, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140514, 20140513
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
9790 FINCH AVENUE
FOUNTAIN VALLEY, CA 92708

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	DYE MASTERS	18627 BROOKHURST ST	EDR Hist Cleaner	Higher	313, 0.059, ENE
B2	ALBERTSONS 6170	18579 BROOKHURST STR	RCRA-CESQG	Higher	313, 0.059, NNE
B3	ALBERTSONS #170	18579 BROOKHURST ST	CERS HAZ WASTE, CERS	Higher	313, 0.059, NNE
B4	ALBERTSONS #6170	18579 BROOKHURST	RCRA-LQG	Higher	313, 0.059, NNE
A5	LANE CHIROPRACTIC	18589 BROOKHURST ST	RCRA-SQG, FINDS, ECHO	Higher	364, 0.069, ENE
C6	JOSEPH R. CALLENS	9736 ELLIS AVE	HIST UST	Higher	365, 0.069, NNW
C7	JOSEPH CALLENS & SON	9736 ELLIS AVE	UST	Higher	365, 0.069, NNW
C8	JOSEPH R CALLENS AND	9736 E ELLIS AVE	HIST UST, HAZNET	Higher	365, 0.069, NNW
A9	CROWN CLEANERS	18583 BROOKHURST	RCRA-SQG, CPS-SLIC, CERS HAZ WASTE, Orange Co....	Higher	386, 0.073, NE
A10	CROWN CLEANERS	18583 BROOKHURST ST	RCRA-SQG, CPS-SLIC, HAZNET, CERS	Higher	386, 0.073, NE
A11	CROWN CLEANERS, LUPE	18583 BROOKHURST ST	DRYCLEANERS	Higher	386, 0.073, NE
A12	CROWN CLEANERS	18583 BROOKHURST ST	EDR Hist Cleaner	Higher	386, 0.073, NE
B13	AUTOZONE #4037	18533 BROOKHURST ST	CERS HAZ WASTE, HAZNET, CERS	Higher	510, 0.097, NNE
D14	EUROPEAN DRY CLEANER	18834 BROOKHURST ST	DRYCLEANERS	Higher	515, 0.098, SE
D15	TAYLOR'S CLEANERS	18834 BROOKHURST ST	DRYCLEANERS	Higher	515, 0.098, SE
D16	ROYAL OAKS CLEANERS	18834 BROOKHURST	RCRA-SQG, FINDS, ECHO	Higher	515, 0.098, SE
D17	MAGBUAL'S CLEANERS	18834 BROOKHURST ST	DRYCLEANERS	Higher	515, 0.098, SE
D18	CRYSTAL CLEAR CLEANE	18834 BROOKHURST	DRYCLEANERS	Higher	515, 0.098, SE
D19	EUROPEAN CLEANERS OF	18834 BROOKHURST ST	DRYCLEANERS	Higher	515, 0.098, SE
D20	ELEGANTE CLEANERS	18834 BROOKHURST ST	EDR Hist Cleaner	Higher	515, 0.098, SE
D21	ROYAL OAK CLEANER	18834 BROOKHURST AVE	DRYCLEANERS	Higher	515, 0.098, SE
E22	ARCO FACILITY NO 097	18520 BROOKHURST ST	RCRA-SQG, HIST UST, FINDS, ECHO	Higher	741, 0.140, NE
E23	TESORO USA 63383	18520 BROOKHURST ST	RCRA NonGen / NLR	Higher	741, 0.140, NE
E24	TESORO (USA) 63383	18520 BROOKHURST ST	CERS HAZ WASTE, CERS TANKS, HAZNET, CERS	Higher	741, 0.140, NE
E25	THRIFTY OIL #383	18520 BROOKHURST ST	LUST, CHMIRS, HAZNET, CERS	Higher	741, 0.140, NE
E26	THRIFTY OIL STN #383	18520 BROOKHURST ST	UST	Higher	741, 0.140, NE
E27	THRIFTY OIL STN #383	18520 BROOKHURST AVE	SWEEPS UST, CA FID UST, HIST CORTESE	Higher	741, 0.140, NE
E28	THRIFTY OIL COMPANY	18520 BROOKHURST STR	UST	Higher	741, 0.140, NE
F29	NORGETOWN CLEANERS	18888 BROOKHURST ST	DRYCLEANERS	Higher	853, 0.162, SE
F30	FORMER RED DOOR CLEA	18888 BROOKHURST STR	ENVIROSTOR, VCP, HAZNET	Higher	853, 0.162, SE
E31	MK OIL INC	18480 BROOKHURST ST	LUST, UST, SWEEPS UST, Orange Co. Industrial Site,...	Higher	915, 0.173, NE
E32	ARCO #1912	18480	CA FID UST, HIST CORTESE	Higher	915, 0.173, NE
E33	ROBERT STRAZZ	18480 BROOKHURST ST	HIST UST	Higher	915, 0.173, NE
E34	BP WEST COAST PRODUC	18480 BROOKHURST ST	CERS HAZ WASTE, CERS TANKS, HAZNET, CERS	Higher	915, 0.173, NE
E35	HOME CARE SAMARITANS	18444 BROOKHURST	RCRA NonGen / NLR	Higher	996, 0.189, NE
G36	FOUNTAIN VALLEY AUTO	10035 ELLIS AVE	HIST UST	Higher	1087, 0.206, NE
G37	BEACON BAY AUTO WASH	10035 ELLIS AVE	UST, SWEEPS UST	Higher	1087, 0.206, NE
G38	FOUNTAIN VALLEY AUTO	10035 ELLIS AVENUE	LUST, HIST UST, CA FID UST, HIST CORTESE, CERS	Higher	1087, 0.206, NE
H39	SHELL OIL CO	18976 BROOKHURST	RCRA-SQG, SWEEPS UST, CA FID UST, HIST CORTESE,...	Higher	1307, 0.248, SSE

MAPPED SITES SUMMARY

Target Property Address:
9790 FINCH AVENUE
FOUNTAIN VALLEY, CA 92708

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
H40	SHELL OIL	18976 BROOKHURST	LUST, Cortese, CERS	Higher	1307, 0.248, SSE
H41	TONY P MANAGO	18976 BROOKHURST	HIST UST	Higher	1307, 0.248, SSE
H42	TONYS SHELL SERVICE	18976 BROOKHURST ST	HIST UST	Higher	1307, 0.248, SSE
H43	SHELL (3835-0710)	18976 BROOKHURST ST	UST	Higher	1307, 0.248, SSE
44	REPLANET LLC	18405 BROOKHURST	SWRCY	Higher	1430, 0.271, NNE
H45	MOBIL OIL	19002 BROOKHURST	LUST, CERS	Higher	1430, 0.271, SSE
H46	MOBIL #18-KB5	19002 BROOKHURST	HIST CORTESE, CERS	Higher	1430, 0.271, SSE
H47	MOBIL #18-KB5	19002 BROOKHURST ST	LUST, UST, SWEEPS UST	Higher	1430, 0.271, SSE
I48	EXXON #7-3616	19001 BROOKHURST ST	SWEEPS UST, CA FID UST, HIST CORTESE	Higher	1528, 0.289, SSE
I49	GARFIELD CHEVRON	19001 BROOKHURST	LUST, HIST CORTESE, CERS	Higher	1528, 0.289, SSE
I50	EXXON USA	19001 N BROOKHURST S	LUST	Higher	1528, 0.289, SSE
51	A AND G ELECTROPOLIS	18330 WARD ST	RCRA-SQG, ENVIROSTOR, CERS HAZ WASTE, FINDS, ECHO,	Higher	3438, 0.651, ENE
52	CIBA-GEIGY CORP	18435 BANDILIER CIRC	HWP, CERS	Higher	4581, 0.868, ENE
53	MAX'S CLEANERS (MAGN	19171 MAGNOLIA STREE	ENVIROSTOR	Lower	4856, 0.920, WSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
AST ---------- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---------- Waste Management Unit Database
HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
ODI ---------- Open Dump Inventory
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---------- Historical Calsites Database
SCH ---------- School Property Evaluation Program
CDL ---------- Clandestine Drug Labs
Toxic Pits ---------- Toxic Pits Cleanup Act Sites
US CDL ---------- National Clandestine Laboratory Register
PFAS ---------- PFAS Contamination Site Location Listing

Local Land Records

LIENS ---------- Environmental Liens Listing
LIENS 2 ---------- CERCLA Lien Information
DEED ---------- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System

CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
Orange Co. Industrial Site	List of Industrial Site Cleanups
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
ECHO	Enforcement & Compliance History Information
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CUPA Listings	CUPA Resources List
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HAZNET	Facility and Manifest Data
ICE	ICE
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing

NPDES ---- NPDES Permits Listing
PEST LIC ---- Pesticide Regulation Licenses Listing
PROC ---- Certified Processors Database
Notify 65 ---- Proposition 65 Records
UIC ---- UIC Listing
UIC GEO ---- UIC GEO (GEOTRACKER)
WASTEWATER PITS ---- Oil Wastewater Pits Listing
WDS ---- Waste Discharge System
MILITARY PRIV SITES ---- MILITARY PRIV SITES (GEOTRACKER)
PROJECT ---- PROJECT (GEOTRACKER)
WDR ---- Waste Discharge Requirements Listing
CIWQS ---- California Integrated Water Quality System
CERS ---- CERS
WIP ---- Well Investigation Program Case List
NON-CASE INFO ---- NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS ---- OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS ---- PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT ---- SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ ---- Well Stimulation Project (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---- EDR Proprietary Manufactured Gas Plants
EDR Hist Auto ---- EDR Exclusive Historical Auto Stations

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---- Recovered Government Archive Solid Waste Facilities List
RGA LUST ---- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

EXECUTIVE SUMMARY

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALBERTSONS #6170 EPA ID:: CAR000257048	18579 BROOKHURST	NNE 0 - 1/8 (0.059 mi.)	B4	17

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/25/2019 has revealed that there are 6 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LANE CHIROPRACTIC EPA ID:: CAD983629619	***18589 BROOKHURST ST***	***ENE 0 - 1/8 (0.069 mi.)***	***A5***	***19***
CROWN CLEANERS EPA ID:: CAD983639683	***18583 BROOKHURST***	***NE 0 - 1/8 (0.073 mi.)***	***A9***	***23***
CROWN CLEANERS EPA ID:: CAR000066050	***18583 BROOKHURST ST***	***NE 0 - 1/8 (0.073 mi.)***	***A10***	***34***
ROYAL OAKS CLEANERS EPA ID:: CAD981619059	***18834 BROOKHURST***	***SE 0 - 1/8 (0.098 mi.)***	***D16***	***46***
ARCO FACILITY NO 097 EPA ID:: CAD981963754	***18520 BROOKHURST ST***	***NE 1/8 - 1/4 (0.140 mi.)***	***E22***	***51***
SHELL OIL CO EPA ID:: CAD981446651	***18976 BROOKHURST***	***SSE 1/8 - 1/4 (0.248 mi.)***	***H39***	***170***

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALBERTSONS 6170	18579 BROOKHURST STR	NNE 0 - 1/8 (0.059 mi.)	B2	8

EPA ID:: CAL000384178

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 01/28/2019 has revealed that there are 3 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER RED DOOR CLEA	***18888 BROOKHURST STR***	***SE 1/8 - 1/4 (0.162 mi.)***	***F30***	***104***
A AND G ELECTROPOLIS	***18330 WARD ST***	***ENE 1/2 - 1 (0.651 mi.)***	***51***	***204***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MAX'S CLEANERS (MAGN	19171 MAGNOLIA STREE	WSW 1/2 - 1 (0.920 mi.)	53	239

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 8 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THRIFTY OIL #383	***18520 BROOKHURST ST***	***NE 1/8 - 1/4 (0.140 mi.)***	***E25***	***89***

Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Status: Remedial action (cleanup) Underway
Global Id: T0605900650
Global ID: T0605900650
Facility Id: 87UT050

MK OIL INC	***18480 BROOKHURST ST***	***NE 1/8 - 1/4 (0.173 mi.)***	***E31***	***107***

Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019
Database: LUST, Date of Government Version: 12/10/2018

Status: Open - Remediation
Facility Status: Remedial action (cleanup) Underway
Global Id: T0605900032
Global ID: T0605900032
Facility Id: 85UT085

FOUNTAIN VALLEY AUTO ***10035 ELLIS AVENUE*** ***NE 1/8 - 1/4 (0.206 mi.)*** ***G38*** ***164***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Status: Post remedial action monitoring
Global Id: T0605900955
Global ID: T0605900955
Facility Id: 89UT071

SHELL OIL ***18976 BROOKHURST*** ***SSE 1/8 - 1/4 (0.248 mi.)*** ***H40*** ***175***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019
Database: LUST, Date of Government Version: 12/10/2018
Status: Open - Verification Monitoring
Facility Status: Pollution Characterization
Global Id: T0605900265
Global ID: T0605900265
Facility Id: 86UT033

MOBIL OIL ***19002 BROOKHURST*** ***SSE 1/4 - 1/2 (0.271 mi.)*** ***H45*** ***185***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Status: Case Closed
Global Id: T0605957667
Global Id: T0605900543
Global ID: T0605900543
Facility Id: 03UT036
Facility Id: 87UT233

MOBIL #18-KB5 ***19002 BROOKHURST ST*** ***SSE 1/4 - 1/2 (0.271 mi.)*** ***H47*** ***192***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Preliminary site assessment workplan submitted
Global ID: T0605957667

GARFIELD CHEVRON ***19001 BROOKHURST*** ***SSE 1/4 - 1/2 (0.289 mi.)*** ***I49*** ***197***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Status: Preliminary site assessment underway
Global Id: T0605920613
Global Id: T0605900778
Global ID: T0605900778
Facility Id: 01UT013

EXXON USA 19001 N BROOKHURST S SSE 1/4 - 1/2 (0.289 mi.) I50 204
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019
Facility Id: 88UT137

EXECUTIVE SUMMARY

CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 2 CPS-SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CROWN CLEANERS	***18583 BROOKHURST***	***NE 0 - 1/8 (0.073 mi.)***	***A9***	***23***
Database: CPS-SLIC, Date of Government Version: 12/10/2018 Global Id: SLT8R0643948 Facility Status: Completed - Case Closed				
CROWN CLEANERS	***18583 BROOKHURST ST***	***NE 0 - 1/8 (0.073 mi.)***	***A10***	***34***
Database: SLIC REG 8, Date of Government Version: 04/03/2008				

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 6 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JOSEPH CALLENS & SON	9736 ELLIS AVE	NNW 0 - 1/8 (0.069 mi.)	C7	22
Database: UST, Date of Government Version: 12/10/2018 Facility Id: 18543				
THRIFTY OIL STN #383	18520 BROOKHURST ST	NE 1/8 - 1/4 (0.140 mi.)	E26	99
Database: ORANGE CO. UST, Date of Government Version: 01/02/2019 Database: UST, Date of Government Version: 12/10/2018 Facility Id: FA0059621 Facility Id: FA0059621 Facility Id: 5092				
THRIFTY OIL COMPANY	18520 BROOKHURST STR	NE 1/8 - 1/4 (0.140 mi.)	E28	101
Database: UST CLOSURE, Date of Government Version: 03/11/2019				
MK OIL INC	***18480 BROOKHURST ST***	***NE 1/8 - 1/4 (0.173 mi.)***	***E31***	***107***
Database: ORANGE CO. UST, Date of Government Version: 01/02/2019 Database: UST, Date of Government Version: 12/10/2018 Facility Id: FA0062548 Facility Id: 2373				
BEACON BAY AUTO WASH	***10035 ELLIS AVE***	***NE 1/8 - 1/4 (0.206 mi.)***	***G37***	***161***
Database: UST, Date of Government Version: 12/10/2018 Facility Id: 5094				
SHELL (3835-0710)	18976 BROOKHURST ST	SSE 1/8 - 1/4 (0.248 mi.)	H43	184
Database: UST, Date of Government Version: 12/10/2018 Facility Id: 2379				

State and tribal voluntary cleanup sites

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the VCP list, as provided by EDR, and dated 01/28/2019 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER RED DOOR CLEA	***18888 BROOKHURST STR***	***SE 1/8 - 1/4 (0.162 mi.)***	***F30***	***104***
Status: Active				
Facility Id: 60002715				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 03/11/2019 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
REPLANET LLC	18405 BROOKHURST	NNE 1/4 - 1/2 (0.271 mi.)	44	185
Cert Id: RC156195.001				

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 04/09/2019 has revealed that there are 5 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALBERTSONS #170	***18579 BROOKHURST ST***	***NNE 0 - 1/8 (0.059 mi.)***	***B3***	***12***
CROWN CLEANERS	***18583 BROOKHURST***	***NE 0 - 1/8 (0.073 mi.)***	***A9***	***23***
AUTOZONE #4037	***18533 BROOKHURST ST***	***NNE 0 - 1/8 (0.097 mi.)***	***B13***	***37***
TESORO (USA) 63383	***18520 BROOKHURST ST***	***NE 1/8 - 1/4 (0.140 mi.)***	***E24***	***55***
BP WEST COAST PRODUC	***18480 BROOKHURST ST***	***NE 1/8 - 1/4 (0.173 mi.)***	***E34***	***117***

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 4 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THRIFTY OIL STN #383 Status: A Tank Status: A Comp Number: 5092	***18520 BROOKHURST AVE***	***NE 1/8 - 1/4 (0.140 mi.)***	***E27***	***99***
MK OIL INC Status: A Tank Status: A Comp Number: 2373	***18480 BROOKHURST ST***	***NE 1/8 - 1/4 (0.173 mi.)***	***E31***	***107***
BEACON BAY AUTO WASH Status: A Tank Status: A Comp Number: 5094	***10035 ELLIS AVE***	***NE 1/8 - 1/4 (0.206 mi.)***	***G37***	***161***
SHELL OIL CO Status: A Tank Status: A Comp Number: 2379	***18976 BROOKHURST***	***SSE 1/8 - 1/4 (0.248 mi.)***	***H39***	***170***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 8 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JOSEPH R. CALLENS Facility Id: 00000048322	9736 ELLIS AVE	NNW 0 - 1/8 (0.069 mi.)	C6	21
JOSEPH R CALLENS AND	***9736 E ELLIS AVE***	***NNW 0 - 1/8 (0.069 mi.)***	***C8***	***22***
ARCO FACILITY NO 097 Facility Id: 00000006156	***18520 BROOKHURST ST***	***NE 1/8 - 1/4 (0.140 mi.)***	***E22***	***51***
ROBERT STRAZZ Facility Id: 00000026657	18480 BROOKHURST ST	NE 1/8 - 1/4 (0.173 mi.)	E33	116
FOUNTAIN VALLEY AUTO Facility Id: 00000042394	10035 ELLIS AVE	NE 1/8 - 1/4 (0.206 mi.)	G36	159
FOUNTAIN VALLEY AUTO	***10035 ELLIS AVENUE***	***NE 1/8 - 1/4 (0.206 mi.)***	***G38***	***164***
TONY P MANAGO Facility Id: 00000004478	18976 BROOKHURST	SSE 1/8 - 1/4 (0.248 mi.)	H41	182
TONYS SHELL SERVICE Facility Id: 00000063334	18976 BROOKHURST ST	SSE 1/8 - 1/4 (0.248 mi.)	H42	183

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 04/09/2019 has revealed that there are 2 CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TESORO (USA) 63383	***18520 BROOKHURST ST***	***NE 1/8 - 1/4 (0.140 mi.)***	***E24***	***55***
BP WEST COAST PRODUC	***18480 BROOKHURST ST***	***NE 1/8 - 1/4 (0.173 mi.)***	***E34***	***117***

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 4 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THRIFTY OIL STN #383 Facility Id: 30000776 Status: A	***18520 BROOKHURST AVE***	***NE 1/8 - 1/4 (0.140 mi.)***	***E27***	***99***
ARCO #1912 Facility Id: 30000482 Status: A	***18480***	***NE 1/8 - 1/4 (0.173 mi.)***	***E32***	***116***
FOUNTAIN VALLEY AUTO Facility Id: 30000922 Status: A	***10035 ELLIS AVENUE***	***NE 1/8 - 1/4 (0.206 mi.)***	***G38***	***164***
SHELL OIL CO Facility Id: 30000411 Status: A	***18976 BROOKHURST***	***SSE 1/8 - 1/4 (0.248 mi.)***	***H39***	***170***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/25/2019 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TESORO USA 63383 EPA ID:: CAL000373929	18520 BROOKHURST ST	NE 1/8 - 1/4 (0.140 mi.)	E23	54
HOME CARE SAMARITANS EPA ID:: CAL000262164	18444 BROOKHURST	NE 1/8 - 1/4 (0.189 mi.)	E35	158

EXECUTIVE SUMMARY

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 03/25/2019 has revealed that there are 2 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MK OIL INC	***18480 BROOKHURST ST***	***NE 1/8 - 1/4 (0.173 mi.)***	***E31***	***107***
Cleanup Status: OPEN - REMEDIATION				
SHELL OIL	***18976 BROOKHURST***	***SSE 1/8 - 1/4 (0.248 mi.)***	***H40***	***175***
Cleanup Status: OPEN - VERIFICATION MONITORING				

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, has revealed that there are 9 DRYCLEANERS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CROWN CLEANERS	***18583 BROOKHURST***	***NE 0 - 1/8 (0.073 mi.)***	***A9***	***23***
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/19/2019				
CROWN CLEANERS, LUPE	18583 BROOKHURST ST	NE 0 - 1/8 (0.073 mi.)	A11	36
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/19/2019				
EUROPEAN DRY CLEANER	18834 BROOKHURST ST	SE 0 - 1/8 (0.098 mi.)	D14	45
Database: DRYCLEANERS, Date of Government Version: 03/01/2019				
EPA Id: CAL000289168				
EPA Id: CAL000295367				
TAYLOR'S CLEANERS	18834 BROOKHURST ST	SE 0 - 1/8 (0.098 mi.)	D15	46
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/19/2019				
MAGBUAL'S CLEANERS	18834 BROOKHURST ST	SE 0 - 1/8 (0.098 mi.)	D17	48
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/19/2019				
CRYSTAL CLEAR CLEANE	18834 BROOKHURST	SE 0 - 1/8 (0.098 mi.)	D18	49
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/19/2019				
EUROPEAN CLEANERS OF	18834 BROOKHURST ST	SE 0 - 1/8 (0.098 mi.)	D19	49
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/19/2019				
ROYAL OAK CLEANER	18834 BROOKHURST AVE	SE 0 - 1/8 (0.098 mi.)	D21	50
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/19/2019				
NORGETOWN CLEANERS	18888 BROOKHURST ST	SE 1/8 - 1/4 (0.162 mi.)	F29	101
Database: DRYCLEANERS, Date of Government Version: 03/01/2019				
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/19/2019				
EPA Id: CAD030576797				
EPA Id: CAL000271865				

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 7 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THRIFTY OIL STN #383 Reg Id: 083000824T	***18520 BROOKHURST AVE***	***NE 1/8 - 1/4 (0.140 mi.)***	***E27***	***99***
ARCO #1912 Reg Id: 083000038T	***18480***	***NE 1/8 - 1/4 (0.173 mi.)***	***E32***	***116***
FOUNTAIN VALLEY AUTO Reg Id: 083001219T	***10035 ELLIS AVENUE***	***NE 1/8 - 1/4 (0.206 mi.)***	***G38***	***164***
SHELL OIL CO Reg Id: 083000339T	***18976 BROOKHURST***	***SSE 1/8 - 1/4 (0.248 mi.)***	***H39***	***170***
MOBIL #18-KB5 Reg Id: 083000687T	***19002 BROOKHURST***	***SSE 1/4 - 1/2 (0.271 mi.)***	***H46***	***192***
EXXON #7-3616 Reg Id: 083002614T	***19001 BROOKHURST ST***	***SSE 1/4 - 1/2 (0.289 mi.)***	***I48***	***195***
GARFIELD CHEVRON Reg Id: 083000983T	***19001 BROOKHURST***	***SSE 1/4 - 1/2 (0.289 mi.)***	***I49***	***197***

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 02/19/2019 has revealed that there is 1 HWP site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CIBA-GEIGY CORP EPA Id: CAD094718590 Cleanup Status: PROTECTIVE FILER	***18435 BANDILIER CIRC***	***ENE 1/2 - 1 (0.868 mi.)***	***52***	***238***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 3 EDR Hist

EXECUTIVE SUMMARY

Cleaner sites within approximately 0.125 miles of the target property.

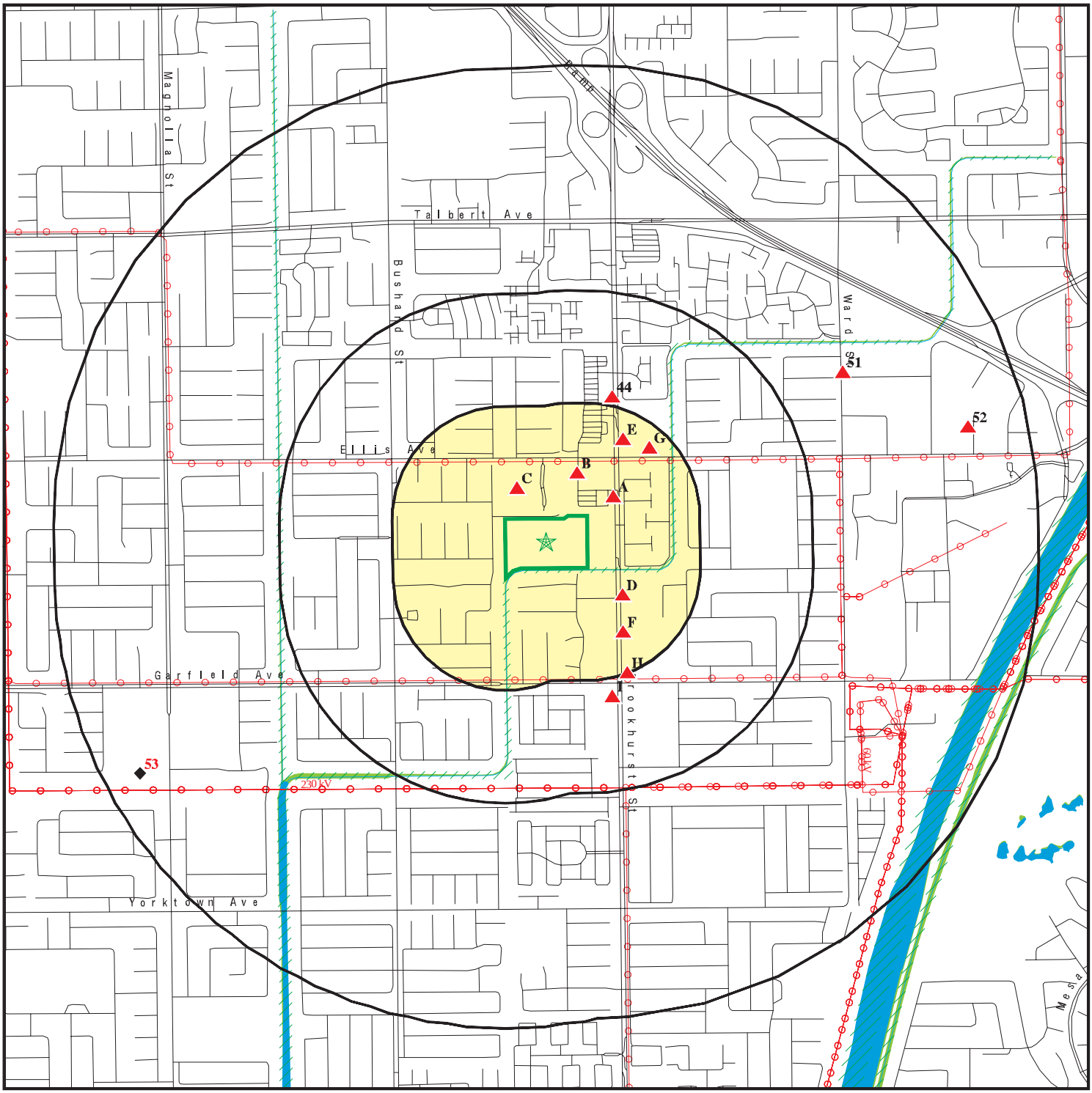
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DYE MASTERS	18627 BROOKHURST ST	ENE 0 - 1/8 (0.059 mi.)	A1	8
CROWN CLEANERS	18583 BROOKHURST ST	NE 0 - 1/8 (0.073 mi.)	A12	37
ELEGANTE CLEANERS	18834 BROOKHURST ST	SE 0 - 1/8 (0.098 mi.)	D20	50

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 5 records.

Site Name	Database(s)
PRIME CLEANERS,HOOSHANG MOVAFAGHI;	DRYCLEANERS
KARE MORE CLEANERS	DRYCLEANERS
KAREMORE CLEANERS	DRYCLEANERS
KAREMORE CLEANERS	DRYCLEANERS
KAREMORE CLEANERS, VICTOR LUONG, D	DRYCLEANERS

OVERVIEW MAP - 5682876.2S



0 1/4 1/2 1 Miles

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

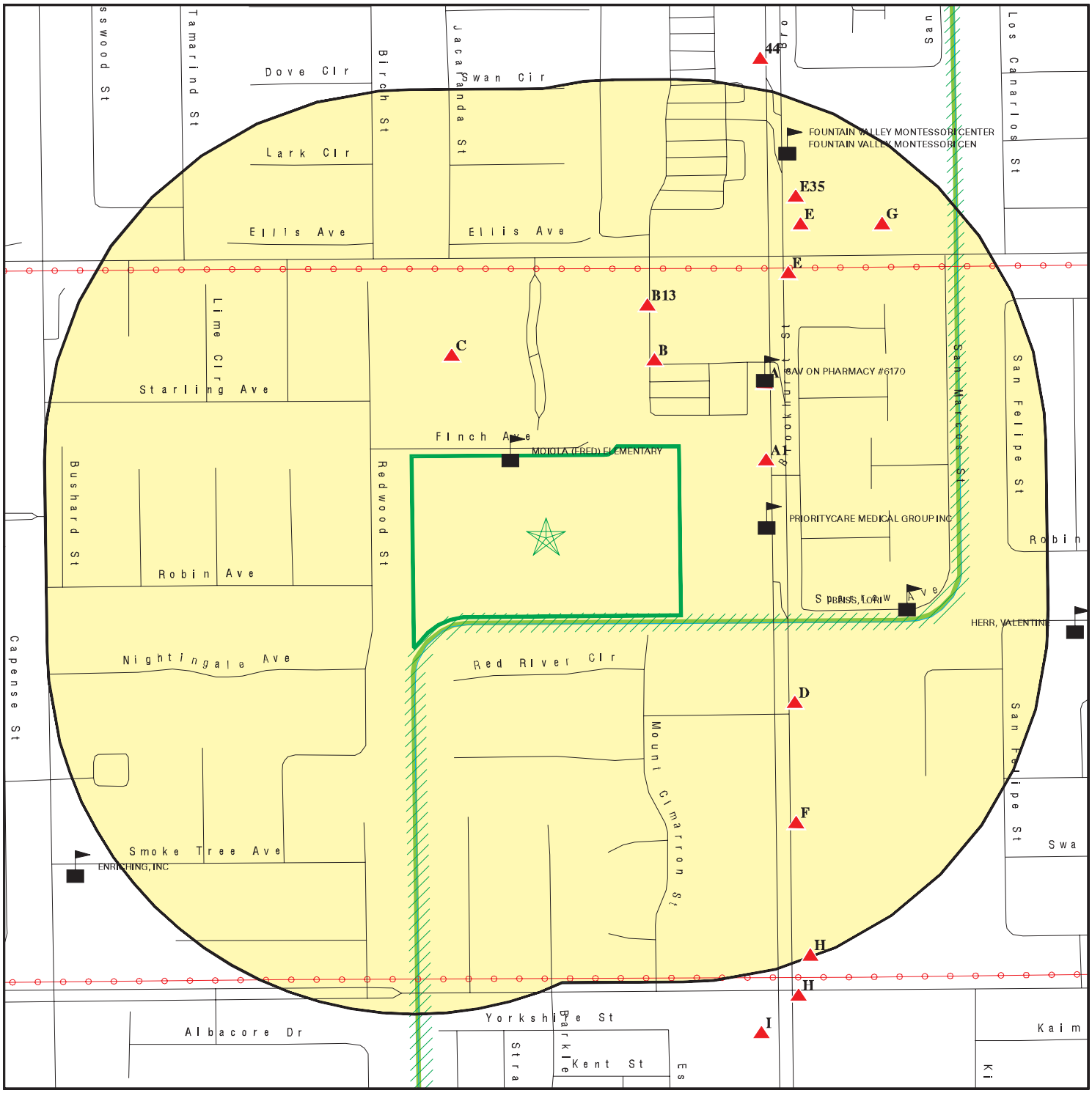
Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Brookfield LA- Fountain Valley	CLIENT:	Leighton and Associates, Inc.
ADDRESS:	9790 Finch Avenue Fountain Valley CA 92708	CONTACT:	Sabrina Gonzalez
LAT/LONG:	33.691358 / 117.9569	INQUIRY #:	5682876.2s
		DATE:	June 13, 2019 12:07 pm

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DETAIL MAP - 5682876.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Brookfield LA- Fountain Valley	CLIENT:	Leighton and Associates, Inc.
ADDRESS:	9790 Finch Avenue Fountain Valley CA 92708	CONTACT:	Sabrina Gonzalez
LAT/LONG:	33.691358 / 117.9569	INQUIRY #:	5682876.2s
		DATE:	June 13, 2019 12:09 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		1	0	NR	NR	NR	1
RCRA-SQG	0.250		4	2	NR	NR	NR	6
RCRA-CESQG	0.250		1	0	NR	NR	NR	1
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	1	0	2	NR	3
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	4	4	NR	NR	8

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		2	0	0	NR	NR	2
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		1	5	NR	NR	NR	6
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	1	0	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	1	NR	NR	1
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		3	2	NR	NR	NR	5
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	4	NR	NR	NR	4
HIST UST	0.250		2	6	NR	NR	NR	8
CERS TANKS	0.250		0	2	NR	NR	NR	2
CA FID UST	0.250		0	4	NR	NR	NR	4
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
Orange Co. Industrial Site	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	2	NR	NR	NR	2
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	2	0	NR	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		8	1	NR	NR	NR	9
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	4	3	NR	NR	7
HWP	1.000		0	0	0	1	NR	1
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		3	NR	NR	NR	NR	3
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	25	40	8	3	0	76

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
ENE
< 1/8
0.059 mi.
313 ft.

DYE MASTERS
18627 BROOKHURST ST 123
FOUNTAIN VALLEY, CA 92708

Site 1 of 6 in cluster A

EDR Hist Cleaner **1018667939**
N/A

Relative:
Higher

Actual:
14 ft.

EDR Hist Cleaner

Year:	Name:	Type:
1991	LANGENWALTER DYE CONCEPTS	Carpet And Upholstery Cleaning Plants
1992	LANGENWALTER DYE CONCEPTS	Carpet And Upholstery Cleaning Plants
1993	LANGENWALTER DYE CONCEPTS	Carpet And Upholstery Cleaning Plants
1994	LANGENWALTER DYE CONCEPTS	Carpet And Upholstery Cleaning Plants
1995	LANGENWALTER DYE CONCEPTS	Carpet And Upholstery Cleaning Plants
1996	LANGENWALTER DYE CONCEPTS	Carpet And Upholstery Cleaning Plants
1997	DYE MASTERS	Carpet And Upholstery Cleaning Plants
1997	CALIFORNIA CARPET DYERS	Carpet And Upholstery Cleaning Plants
1998	DYE MASTERS	Carpet And Upholstery Cleaning Plants
1998	CALIFORNIA CARPET DYERS	Carpet And Upholstery Cleaning Plants
1999	DYE MASTERS	Carpet And Upholstery Cleaning Plants
1999	CALIFORNIA CARPET DYERS	Carpet And Upholstery Cleaning Plants
2000	CALIFORNIA CARPET DYERS	Carpet And Upholstery Cleaning Plants
2000	DYE MASTERS	Carpet And Upholstery Cleaning Plants
2001	CALIFORNIA CARPET DYERS	Carpet And Upholstery Cleaning Plants
2002	CALIFORNIA CARPET DYERS	Carpet And Upholstery Cleaning Plants
2003	CALIFORNIA CARPET DYERS	Carpet And Upholstery Cleaning Plants
2004	CALIFORNIA CARPET DYERS	Carpet And Upholstery Cleaning Plants
2005	CALIFORNIA CARPET DYERS	Carpet And Upholstery Cleaning Plants
2014	AFFORDABLE STONE CARE ON OC	Drycleaning Plants, Except Rugs, NEC

B2
NNE
< 1/8
0.059 mi.
313 ft.

ALBERTSONS 6170
18579 BROOKHURST STREET
FOUNTAIN VALLEY, CA 92708

Site 1 of 4 in cluster B

RCRA-CESQG **1016954934**
CAL000384178

Relative:
Higher

Actual:
15 ft.

RCRA-CESQG:

Date form received by agency:	02/26/2016
Facility name:	ALBERTSONS 6170
Facility address:	18579 BROOKHURST STREET FOUNTAIN VALLEY, CA 92708
EPA ID:	CAL000384178
Mailing address:	P.O. BOX 20, DEPT 81014 BOISE, ID 83726
Contact:	ERICA FRANSEN
Contact address:	P.O. BOX 20, DEPT 81014 BOISE, ID 83726
Contact country:	US
Contact telephone:	208-395-4793
Contact email:	ERICA.FRANSEN@ALBERTSONS.COM
EPA Region:	09
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting

ALBERTSONS 6170 (Continued) **1016954934**

from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	ALBERTSONS-SAVON 6170
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	08/29/1972
Owner/Op end date:	Not reported

Owner/operator name:	ALBERTSONS, LLC
Owner/operator address:	P.O. BOX 20, DEPT 81014
	BOISE, ID 83726
Owner/operator country:	US
Owner/operator telephone:	208-395-4793
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	03/21/2013
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	03/01/2014
Site name:	ALBERTSONS 6170
Classification:	Conditionally Exempt Small Quantity Generator

ALBERTSONS 6170 (Continued) **1016954934**

Hazardous Waste Summary:

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 131
. Waste name: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 232
. Waste name: Pesticides and other waste associated with pesticide production

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

ALBERTSONS 6170 (Continued) **1016954934**

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs):	120
Waste code:	D002
Waste name:	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs):	72
Waste code:	D007
Waste name:	CHROMIUM
Amount (Lbs):	11
Waste code:	D009
Waste name:	MERCURY
Amount (Lbs):	12
Waste code:	D010
Waste name:	SELENIUM
Amount (Lbs):	11
Waste code:	D024
Waste name:	M-CRESOL
Amount (Lbs):	12
Waste code:	P001
Waste name:	2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%
Amount (Lbs):	13
Waste code:	P075
Waste name:	NICOTINE, & SALTS
Amount (Lbs):	13

Violation Status: No violations found

B3 **ALBERTSONS #170** **CERS HAZ WASTE** **S113157533**
NNE **18579 BROOKHURST ST** **CERS** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.059 mi.
313 ft. **Site 2 of 4 in cluster B**

Relative:
Higher

Actual:
15 ft.

CERS HAZ WASTE:

Site ID:	410628
CERS ID:	10138897
CERS Description:	Hazardous Waste Generator

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-05-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-15-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-19-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-14-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for routine hazardous waste inspection. Consent to enter and inspect was given by James Lacombe. Observed the facility and inspected the hazardous waste storage areas. The containers are stored closed and properly labeled. Manifests and emergency plan are available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-02-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Hazardous waste observed onsite: - Universal waste - Various consumer product damaged/returns (e.g. corrosives, flammables, toxic, etc.) - RCRA pharmaceutical waste
Eval Division:	Orange County Environmental Health

ALBERTSONS #170 (Continued) **S113157533**

Eval Program: HW
Eval Source: CERS

Coordinates:
Site ID: 410628
Facility Name: Albertsons #170
Env Int Type Code: HMBP
Program ID: 10138897
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.693110
Longitude: -117.955620

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Jill Washburn
Entity Title: Not reported
Affiliation Address: PO Box 20, Dept. #81014
Affiliation City: Boise
Affiliation State: ID
Affiliation Country: Not reported
Affiliation Zip: 83726
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: PO Box 20, Dept. #81014
Affiliation City: Boise
Affiliation State: ID
Affiliation Country: Not reported
Affiliation Zip: 83726
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Albertsons #170
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (714) 963-7503

Affiliation Type Desc: Legal Owner
Entity Name: Albertsons LLC
Entity Title: Not reported
Affiliation Address: PO Box 20, Dept. #81014
Affiliation City: Boise
Affiliation State: ID
Affiliation Country: United States
Affiliation Zip: 83726
Affiliation Phone: (208) 395-3949

Affiliation Type Desc: Identification Signer
Entity Name: Jill Washburn

ALBERTSONS #170 (Continued) **S113157533**

Entity Title: Environmental Coordinator
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6000

Affiliation Type Desc: Document Preparer
Entity Name: Jill Washburn
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: Albertsons
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

CERS TANKS:
Site ID: 410628
CERS ID: 10138897
Site Name: ALBERTSONS #170
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-05-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fountain Valley Fire
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-15-2014

ALBERTSONS #170 (Continued) **S113157533**

Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-19-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-14-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for routine hazardous waste inspection. Consent to enter and inspect was given by James Lacombe. Observed the facility and inspected the hazardous waste storage areas. The containers are stored closed and properly labeled. Manifests and emergency plan are available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-02-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Hazardous waste observed onsite: - Universal waste - Various consumer product damaged/returns (e.g. corrosives, flammables, toxic, etc.) - RCRA pharmaceutical waste
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	410628
Facility Name:	Albertsons #170
Env Int Type Code:	HMBP
Program ID:	10138897
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.693110
Longitude:	-117.955620

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Jill Washburn
Entity Title:	Not reported
Affiliation Address:	PO Box 20, Dept. #81014
Affiliation City:	Boise

ALBERTSONS #170 (Continued) **S113157533**

Affiliation State:	ID
Affiliation Country:	Not reported
Affiliation Zip:	83726
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO Box 20, Dept. #81014
Affiliation City:	Boise
Affiliation State:	ID
Affiliation Country:	Not reported
Affiliation Zip:	83726
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Albertsons #170
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 963-7503
Affiliation Type Desc:	Legal Owner
Entity Name:	Albertsons LLC
Entity Title:	Not reported
Affiliation Address:	PO Box 20, Dept. #81014
Affiliation City:	Boise
Affiliation State:	ID
Affiliation Country:	United States
Affiliation Zip:	83726
Affiliation Phone:	(208) 395-3949
Affiliation Type Desc:	Identification Signer
Entity Name:	Jill Washburn
Entity Title:	Environmental Coordinator
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	Document Preparer
Entity Name:	Jill Washburn

ALBERTSONS #170 (Continued) **S113157533**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Albertsons
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

B4 **ALBERTSONS #6170** **RCRA-LQG** **1018273579**
NNE **18579 BROOKHURST** **CAR000257048**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.059 mi.
313 ft. **Site 3 of 4 in cluster B**

Relative:
Higher

Actual:
15 ft.

RCRA-LQG:

Date form received by agency:	11/06/2015
Facility name:	ALBERTSONS #6170
Facility address:	18579 BROOKHURST FOUNTAIN VALLEY, CA 92708
EPA ID:	CAR000257048
Mailing address:	PO BOX 20 DEPT 81014 BOISE, ID 83726
Contact:	ERICA FRANSEN
Contact address:	PO BOX 20 DEPT 81014 BOISE, ID 83726
Contact country:	US
Contact telephone:	208-395-4793
Contact email:	ERICA.FRANSEN@ALBERTSONS.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	ALBERTSONS #6170
Owner/operator address:	Not reported

ALBERTSONS #6170 (Continued) **1018273579**

Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 11/01/1988
Owner/Op end date: Not reported

Owner/operator name: DONAHUE SCHRIBER REALTY GROUP
Owner/operator address: E BAKER ST #100
COSTA MESA, CA 92626
Owner/operator country: US
Owner/operator telephone: 714-545-1400
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 03/10/1988
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 131
. Waste name: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

ALBERTSONS #6170 (Continued) **1018273579**

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 232
. Waste name: Pesticides and other waste associated with pesticide production

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

Violation Status: No violations found

A5 **LANE CHIROPRACTIC** **RCRA-SQG** **1000685995**
ENE **18589 BROOKHURST ST** **FINDS** **CAD983629619**
< 1/8 **FOUNTAIN VALLEY, CA 92708** **ECHO**
0.069 mi.
364 ft. **Site 2 of 6 in cluster A**

Relative:
Higher

Actual:
14 ft.

RCRA-SQG:
Date form received by agency: 04/03/1992
Facility name: LANE CHIROPRACTIC
Facility address: 18589 BROOKHURST ST
FOUNTAIN VALLEY, CA 92708
EPA ID: CAD983629619
Contact: DONALD DR LANE
Contact address: 18589 BROOKHURST ST
FOUNTAIN VALLEY, CA 92708
Contact country: US
Contact telephone: 714-962-1674
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

LANE CHIROPRACTIC (Continued) **1000685995**

hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: DONALD LANE
Owner/operator address: 18589 BROOKHURST ST
FOUNTAIN VALLEY, CA 92708
Owner/operator country: Not reported
Owner/operator telephone: 714-962-1674
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002873383

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000685995
Registry ID: 110002873383
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002873383

C6
NNW
< 1/8
0.069 mi.
365 ft.

JOSEPH R. CALLENS
9736 ELLIS AVE
FOUNTAIN VALLEY, CA 92708

Site 1 of 3 in cluster C

HIST UST **U001578372**
N/A

Relative:
Higher

Actual:
16 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000048322
Facility Type:	Other
Other Type:	FARMING
Contact Name:	JOSEPH CALLENS
Telephone:	7149621212
Owner Name:	JOSEPH R. CALLENS
Owner Address:	9736 E. ELLIS
Owner City,St,Zip:	FOUNTAIN VALLEY, CA 02708
Total Tanks:	0004
Tank Num:	001
Container Num:	#2
Year Installed:	1962
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	#1
Year Installed:	1928
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	003
Container Num:	2-DIESEL
Year Installed:	1965
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor
Tank Num:	004
Container Num:	1-GAS
Year Installed:	1965
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor

C7 **JOSEPH CALLENS & SONS** **UST** **U003940223**
NNW **9736 ELLIS AVE** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.069 mi.
365 ft. **Site 2 of 3 in cluster C**

Relative: Higher
Actual: 16 ft.

UST:

Facility ID:	18543
Permitting Agency:	ORANGE COUNTY
Latitude:	33.694502
Longitude:	-117.956669

C8 **JOSEPH R CALLENS AND SONS RANCHES** **HIST UST** **S112842287**
NNW **9736 E ELLIS AVE** **HAZNET** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.069 mi.
365 ft. **Site 3 of 3 in cluster C**

Relative: Higher
Actual: 16 ft.

HIST UST:

File Number:	0002EA5E
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002EA5E.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

HAZNET:

Site Name:	JOSEPH R CALLENS AND SONS RANCHES
Year:	1997
GEPAID:	CAC000744824
Contact:	JOSEPH CALLENS/OWNER
Telephone:	7149621212
Mailing Name:	Not reported
Mailing Address:	9736 E ELLIS AVE
Mailing City,St,Zip:	FOUNTAIN VALLEY, CA 927080000
Gen County:	Orange
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Tons:	0.494
CA Waste Code:	221-Waste oil and mixed oil
Method:	R01-Recycler
Facility County:	Orange

A9
NE
< 1/8
0.073 mi.
386 ft.

Relative:
Higher

Actual:
14 ft.

CROWN CLEANERS
18583 BROOKHURST
FOUNTAIN VALLEY, CA 92708

Site 3 of 6 in cluster A

Database(s): RCRA-SQG, CPS-SLIC, CERS HAZ WASTE, Orange Co. Industrial Site, FINDS, ECHO, DRYCLEANERS, EMI, HAZNET, CERS

EDR ID Number: 1000686629
EPA ID Number: CAD983639683

RCRA-SQG:

Date form received by agency:	08/01/1996
Facility name:	CROWN CLEANERS
Facility address:	18583 BROOKHURST FOUNTAIN VALLEY, CA 92708
EPA ID:	CAD983639683
Contact:	JAGDISH TANEJA
Contact address:	18583 BROOKHURST FOUNTAIN VALLEY, CA 92708
Contact country:	US
Contact telephone:	714-968-9955
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	JAGDISH TANEJA
Owner/operator address:	18583 BROOKHURST FOUNTAIN VALLEY, CA 92708
Owner/operator country:	Not reported
Owner/operator telephone:	714-968-9955
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No

CROWN CLEANERS (Continued) **1000686629**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

CPS-SLIC:
Site Name: CROWN CLEANERS
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 05/29/2003
Global Id: SLT8R0643948
Lead Agency: ORANGE COUNTY
Lead Agency Case Number: Not reported
Latitude: 33.693438
Longitude: -117.952945
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: SLT8R064
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

CERS HAZ WASTE:
Site ID: 419243
CERS ID: 10539007
CERS Description: Hazardous Waste Generator

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-12-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine hazardous waste inspection. Consent to enter and inspect was given by Lupe Taneja. Observed the facility and inspected hazardous waste storage. The containers are stored closed and properly labeled. No evidence of hazardous waste spillage or runoff were observed. Manifests are available for review. Emergency plan is posted in the shop.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-02-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-04-2014

CROWN CLEANERS (Continued) **1000686629**

Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-10-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	RUR: PE change from 5111 to 5110
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-10-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	less than 55 gal
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-03-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Consent to inspect and take photos was granted by the , . A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date, and no photos were taken. The following were observed: 55-gallon drum of 55-gallon drum of The containers were observed properly stored and labeled. Hazardous waste disposal documents were reviewed. No hazardous waste violations were observed on this date. A copy of this report will be sent to crowncleanersfv@gmail.com
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	419243
Facility Name:	CROWN CLEANERS
Env Int Type Code:	HWG
Program ID:	10539007
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.693320
Longitude:	-117.954320

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported

CROWN CLEANERS (Continued) **1000686629**

Affiliation Address:	18583 Brookhurst Street
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Guadalupe Taneja
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Jagdish Taneja & Guadalupe Taneja
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 336-0006
Affiliation Type Desc:	Document Preparer
Entity Name:	Guadalupe Taneja
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Guadalupe Taneja
Entity Title:	Not reported
Affiliation Address:	18583 BROOKHURST ST
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Jagdish Taneja & Guadalupe Taneja
Entity Title:	Not reported
Affiliation Address:	18583 Brookhurst Street
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-9955

CROWN CLEANERS (Continued) **1000686629**

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Parent Corporation
Entity Name:	CROWN CLEANERS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Orange Co. Industrial Site:

Case ID:	13IC008
Record ID:	RO0003597
Current Status:	CLOSED 5/23/2013
Closure Type:	Voluntary Cleanup Program Termination
Released Chemical:	Not reported

Case ID:	96IC031
Record ID:	RO0000553
Current Status:	CLOSED 5/30/2003
Closure Type:	Closure certification issued
Released Chemical:	PERCHLOROETHYLENE; TRICHLOROETHYLENE

FINDS:

Registry ID: 110002878627

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

CROWN CLEANERS (Continued) **1000686629**

ECHO:
Envid: 1000686629
Registry ID: 110002878627
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002878627

DRYCLEAN SOUTH COAST:
Facility ID: 53226
Application Number: 145035
Permit Number: Not reported
Status: I
Representative Name: JOHN KELLEHER
Representative Telephone: 213 4221257
Permit Status: Not reported
BCAT Number: 000234
BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number: 04
CCAT Description: VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East: 411.70001221
UTM North: 3728.3000488

Facility ID: 53226
Application Number: 226493
Permit Number: D25943
Status: I
Representative Name: JOHN KELLEHER
Representative Telephone: 213 4221257
Permit Status: INACTIVE
BCAT Number: 000234
BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number: 04
CCAT Description: VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East: 411.70001221
UTM North: 3728.3000488

Facility ID: 53226
Application Number: 248571
Permit Number: D38727
Status: I
Representative Name: JOHN KELLEHER
Representative Telephone: 213 4221257
Permit Status: INACTIVE
BCAT Number: 000234
BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number: 04
CCAT Description: VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East: 411.70001221
UTM North: 3728.3000488

Facility ID: 103774
Application Number: 299545
Permit Number: D87457
Status: S
Representative Name: GREGORY K BROWN
Representative Telephone: 714 9689955
Permit Status: INACTIVE
BCAT Number: 000234

CROWN CLEANERS (Continued) **1000686629**

BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number: 04
CCAT Description: VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East: 411.70001221
UTM North: 3728.3000488

EMI:
Year: 1990
County Code: 30
Air Basin: SC
Facility ID: 53226
Air District Name: SC
SIC Code: 7216
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 1993
County Code: 30
Air Basin: SC
Facility ID: 53226
Air District Name: SC
SIC Code: 7216
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 1995
County Code: 30
Air Basin: SC
Facility ID: 53226
Air District Name: SC
SIC Code: 7216
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

CROWN CLEANERS (Continued) **1000686629**

HAZNET:

Site Name:	CROWN CLEANERS
Year:	2008
GEPAID:	CAD983639683
Contact:	JAGDISH TANEJA
Telephone:	7149689955
Mailing Name:	Not reported
Mailing Address:	18583 BROOKHURST ST
Mailing City,St,Zip:	FOUNTAIN VALLEY, CA 927086746
Gen County:	Orange
TSD EPA ID:	TXD077603371
TSD County:	99
Tons:	0.525
CA Waste Code:	343-Unspecified organic liquid mixture
Method:	H061-Fuel Blending Prior To Energy Recovery At Another Site
Facility County:	Orange

Site Name:	CROWN CLEANERS
Year:	2007
GEPAID:	CAD983639683
Contact:	JAGDISH TANEJA
Telephone:	7149689955
Mailing Name:	Not reported
Mailing Address:	18583 BROOKHURST ST
Mailing City,St,Zip:	FOUNTAIN VALLEY, CA 927086746
Gen County:	Orange
TSD EPA ID:	TXD077603371
TSD County:	99
Tons:	0.4
CA Waste Code:	343-Unspecified organic liquid mixture
Method:	H061-Fuel Blending Prior To Energy Recovery At Another Site
Facility County:	Orange

Site Name:	CROWN CLEANERS
Year:	2005
GEPAID:	CAD983639683
Contact:	JAGDISH TANEJA
Telephone:	7149689955
Mailing Name:	Not reported
Mailing Address:	18583 BROOKHURST ST
Mailing City,St,Zip:	FOUNTAIN VALLEY, CA 927086746
Gen County:	Orange
TSD EPA ID:	CAT000613893
TSD County:	Los Angeles
Tons:	1.6
CA Waste Code:	741-Liquids with halogenated organic compounds >= 1,000 Mg./L
Method:	H01-Transfer Station
Facility County:	Orange

Site Name:	CROWN CLEANERS
Year:	2005
GEPAID:	CAD983639683
Contact:	JAGDISH TANEJA
Telephone:	7149689955
Mailing Name:	Not reported
Mailing Address:	18583 BROOKHURST ST
Mailing City,St,Zip:	FOUNTAIN VALLEY, CA 927086746

CROWN CLEANERS (Continued) **1000686629**

Gen County: Orange
TSD EPA ID: CAT000613893
TSD County: Los Angeles
Tons: 0.475
CA Waste Code: 741-Liquids with halogenated organic compounds >= 1,000 Mg./L
Method: -
Facility County: Orange

Site Name: CROWN CLEANERS
Year: 2005
GEPAID: CAD983639683
Contact: JAGDISH TANEJA
Telephone: 7149689955
Mailing Name: Not reported
Mailing Address: 18583 BROOKHURST ST
Mailing City,St,Zip: FOUNTAIN VALLEY, CA 927086746
Gen County: Orange
TSD EPA ID: CAT000613893
TSD County: Los Angeles
Tons: Not reported
CA Waste Code: -
Method: H01-Transfer Station
Facility County: Orange

Click this hyperlink while viewing on your computer to access
26 additional CA_HAZNET: record(s) in the EDR Site Report.

CERS TANKS:
Site ID: 419243
CERS ID: 10539007
Site Name: CROWN CLEANERS
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-12-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine hazardous waste inspection. Consent to enter and inspect was given by Lupe Taneja. Observed the facility and inspected hazardous waste storage. The containers are stored closed and properly labeled. No evidence of hazardous waste spillage or runoff were observed. Manifests are available for review. Emergency plan is posted in the shop.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-02-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

CROWN CLEANERS (Continued) **1000686629**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-04-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	11-10-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	RUR: PE change from 5111 to 5110
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-10-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	less than 55 gal
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-03-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Consent to inspect and take photos was granted by the , . A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date, and no photos were taken. The following were observed: 55-gallon drum of 55-gallon drum of The containers were observed properly stored and labeled. Hazardous waste disposal documents were reviewed. No hazardous waste violations were observed on this date. A copy of this report will be sent to crowncleanersfv@gmail.com
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	419243
Facility Name:	CROWN CLEANERS
Env Int Type Code:	HWG
Program ID:	10539007
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.693320
Longitude:	-117.954320

Affiliation:

Affiliation Type Desc:	Facility Mailing Address

CROWN CLEANERS (Continued) **1000686629**

Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	18583 Brookhurst Street
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Guadalupe Taneja
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Jagdish Taneja & Guadalupe Taneja
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 336-0006
Affiliation Type Desc:	Document Preparer
Entity Name:	Guadalupe Taneja
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Guadalupe Taneja
Entity Title:	Not reported
Affiliation Address:	18583 BROOKHURST ST
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Jagdish Taneja & Guadalupe Taneja
Entity Title:	Not reported
Affiliation Address:	18583 Brookhurst Street
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708

CROWN CLEANERS (Continued) **1000686629**

Affiliation Phone:	(714) 968-9955
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	Parent Corporation
Entity Name:	CROWN CLEANERS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

A10 **CROWN CLEANERS** **RCRA-SQG** **1001959905**
NE **18583 BROOKHURST ST** **CPS-SLIC** **CAR000066050**
< 1/8 **FOUNTAIN VALLEY, CA 92708** **HAZNET**
0.073 mi. **CERS**
386 ft. **Site 4 of 6 in cluster A**

Relative:
Higher

Actual:
14 ft.

RCRA-SQG:

Date form received by agency:	07/23/2002
Facility name:	CROWN CLEANERS
Facility address:	18583 BROOKHURST ST FOUNTAIN VALLEY, CA 92708
EPA ID:	CAR000066050
Mailing address:	2200 W FLORIDA AVE STE 300 HEMET, CA 92545-3669
Contact:	HENRY AVILA
Contact address:	2200 W FLORIDA AVE STE 300 HEMET, CA 92545-3669
Contact country:	US
Contact telephone:	909-652-7771
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	DONAHUE SCHRIBER
Owner/operator address:	3501 JAMBOREE RD STE 300 NEWPORT BEACH, CA 92660
Owner/operator country:	Not reported
Owner/operator telephone:	949-854-2100

CROWN CLEANERS (Continued) **1001959905**

Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 07/23/2002
Site name: CROWN CLEANERS
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

SLIC REG 8:
Type: Soil
Facility Status: 3
Staff: MGC
Substance: TCE, PCE
Lead Agency: Regional Board
Location Code: FV-2
Thomas Bros Code: Not reported

CROWN CLEANERS (Continued) **1001959905**

HAZNET:

Site Name:	CROWN CLEANERS
Year:	2002
GEPAID:	CAR000066050
Contact:	Henry Avila
Telephone:	9096527771
Mailing Name:	Not reported
Mailing Address:	2200 W Florida Ave Ste 300
Mailing City,St,Zip:	Hemet, CA 925453669
Gen County:	Orange
TSD EPA ID:	CAT000646117
TSD County:	Kings
Tons:	25.284
CA Waste Code:	611-Contaminated soil from site clean-up
Method:	D80-Disposal, Land Fill
Facility County:	Orange

CERS TANKS:

Site ID:	217142
CERS ID:	SLT8R0643948
Site Name:	CROWN CLEANERS
CERS Description:	Cleanup Program Site

A11 **CROWN CLEANERS, LUPE AND JACK TANEJA** **DRYCLEANERS** **S121693855**
NE **18583 BROOKHURST ST** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.073 mi.
386 ft. **Site 5 of 6 in cluster A**

Relative:
Higher

Actual:
14 ft.

DRYCLEAN SOUTH COAST:

Facility ID:	110558
Application Number:	450501
Permit Number:	F79472
Status:	A
Representative Name:	GUADALUPE/JACK TANEJA
Representative Telephone:	714 9689955
Permit Status:	ACTIVE
BCAT Number:	000233
BCAT Description:	DRY CLEANING EQUIP PETROLEUM SOLVENT
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	411.54400635
UTM North:	3728.3110352

Facility ID:	110558
Application Number:	322127
Permit Number:	F4162
Status:	A
Representative Name:	GUADALUPE/JACK TANEJA
Representative Telephone:	714 9689955
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	411.54400635
UTM North:	3728.3110352

A12 **CROWN CLEANERS** **EDR Hist Cleaner** **1019965644**
NE **18583 BROOKHURST ST** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.073 mi.
386 ft. **Site 6 of 6 in cluster A**

Relative: EDR Hist Cleaner
Higher

Actual:
14 ft.

Year:	Name:	Type:
1994	CROWN CLEANERS	Drycleaning Plants, Except Rugs
1995	CROWN CLEANERS	Drycleaning Plants, Except Rugs
1997	CROWN CLEANERS	Drycleaning Plants, Except Rugs
1999	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2000	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2001	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2002	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2003	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2004	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2005	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2005	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2006	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2006	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2007	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2007	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2008	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2008	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2009	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2009	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2010	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2010	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2011	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2011	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2012	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2012	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2013	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2013	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC
2014	CROWN CLEANERS	Drycleaning Plants, Except Rugs
2014	CROWN CLEANERS FOUNTAIN VALLEY	Drycleaning Plants, Except Rugs, NEC

B13 **AUTOZONE #4037** **CERS HAZ WASTE** **S113159267**
NNE **18533 BROOKHURST ST** **HAZNET** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708** **CERS**
0.097 mi.
510 ft. **Site 4 of 4 in cluster B**

Relative: CERS HAZ WASTE:
Higher

Actual:
15 ft.

Site ID:	386984
CERS ID:	10139715
CERS Description:	Hazardous Waste Generator

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-23-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Met with Elize Morin. Inspected used oil, drained used oil/fuel filters, absorbent, broken products/returns (flammables, reactives, corrosives, toxics). Drums were provided with a lid, stored in a secure manner and appear to be in good condition. The operator completes a maintenance

AUTOZONE #4037 (Continued) **S113159267**

inspection on the drums on a weekly basis. A Hazardous Waste label was noted on all drums with the required identification. Municipal dumpster area does not appear to contain any hazardous waste. Perimeter of facility inspected - did not observe any water runoff or staining at this time. Hazardous Waste Emergency Response plan was available for review. Manifests and bills of lading for all hazardous waste streams were reviewed today. Ensure all hazardous waste manifests/disposal documents are maintained on site for at least three years from the date of transport and are available for review during normal business [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-25-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-20-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS OW/BA x 2 - update store #
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-21-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fountain Valley Fire
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-13-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review: BA/OW pg
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-04-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP

AUTOZONE #4037 (Continued) **S113159267**

Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-12-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review: BA/OW page
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6000

Affiliation Type Desc: Environmental Contact
Entity Name: Andrew Beaven
Entity Title: Not reported
Affiliation Address: Dept 8190, 123 South Front Street
Affiliation City: Memphis
Affiliation State: TN
Affiliation Country: Not reported
Affiliation Zip: 38103
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Autozone
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (714) 965-4083

Affiliation Type Desc: Parent Corporation
Entity Name: Auto Zone
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Deborah Williams
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported

AUTOZONE #4037 (Continued) **S113159267**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	Dept 8190, 123 South Front St
Affiliation City:	MEMPHIS
Affiliation State:	TN
Affiliation Country:	Not reported
Affiliation Zip:	38103
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	AutoZone Inc
Entity Title:	Not reported
Affiliation Address:	123 S SOUTH FRONT ST
Affiliation City:	MEMPHIS
Affiliation State:	TN
Affiliation Country:	United States
Affiliation Zip:	38103
Affiliation Phone:	(901) 495-6500
Affiliation Type Desc:	Property Owner
Entity Name:	Donahue Schriber Realty Group LP
Entity Title:	Not reported
Affiliation Address:	200 East Baker St., Suite 100
Affiliation City:	Costa Mesa
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92626
Affiliation Phone:	(714) 966-3201
Affiliation Type Desc:	Identification Signer
Entity Name:	Deborah Williams
Entity Title:	Environmental Coordinator
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

HAZNET:

Site Name:	AUTOZONE #4037
Year:	2017
GEPAID:	CAL000355048
Contact:	BRYAN BLAIR
Telephone:	9014957217
Mailing Name:	Not reported
Mailing Address:	DEPT 8190, 123 S FRONT ST
Mailing City,St,Zip:	MEMPHIS, TN 381033607
Gen County:	Orange
TSD EPA ID:	CAD044429835

AUTOZONE #4037 (Continued) **S113159267**

TSD County: Los Angeles
Tons: 0.34
CA Waste Code: 352-Other organic solids
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Site Name: AUTOZONE #4037
Year: 2016
GEPAID: CAL000355048
Contact: BRYAN BLAIR
Telephone: 9014957217
Mailing Name: Not reported
Mailing Address: 123 S FRONT ST
Mailing City,St,Zip: MEMPHIS, TN 381033607
Gen County: Orange
TSD EPA ID: CAD044429835
TSD County: Los Angeles
Tons: 0.24
CA Waste Code: 352-Other organic solids
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Site Name: AUTOZONE #4037
Year: 2015
GEPAID: CAL000355048
Contact: BRYAN BLAIR
Telephone: 9014957217
Mailing Name: Not reported
Mailing Address: 123 S FRONT ST
Mailing City,St,Zip: MEMPHIS, TN 381033607
Gen County: Orange
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Tons: 0.014
CA Waste Code: 331-Off-specification, aged or surplus organics
Method: H061-Fuel Blending Prior To Energy Recovery At Another Site
Facility County: Orange

Site Name: AUTOZONE #4037
Year: 2015
GEPAID: CAL000355048
Contact: BRYAN BLAIR
Telephone: 9014957217
Mailing Name: Not reported
Mailing Address: 123 S FRONT ST
Mailing City,St,Zip: MEMPHIS, TN 381033607
Gen County: Orange
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Tons: 0.0185
CA Waste Code: 214-Unspecified solvent mixture
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

AUTOZONE #4037 (Continued) **S113159267**

Site Name:	AUTOZONE #4037
Year:	2015
GEPAID:	CAL000355048
Contact:	BRYAN BLAIR
Telephone:	9014957217
Mailing Name:	Not reported
Mailing Address:	123 S FRONT ST
Mailing City,St,Zip:	MEMPHIS, TN 381033607
Gen County:	Orange
TSD EPA ID:	CAD044429835
TSD County:	Los Angeles
Tons:	0.335
CA Waste Code:	352-Other organic solids
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Orange

Click this hyperlink while viewing on your computer to access
11 additional CA_HAZNET: record(s) in the EDR Site Report.

CERS TANKS:

Site ID:	386984
CERS ID:	10139715
Site Name:	AUTOZONE #4037
CERS Description:	Chemical Storage Facilities

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-23-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Met with Elize Morin. Inspected used oil, drained used oil/fuel filters, absorbent, broken products/returns (flammables, reactives, corrosives, toxics). Drums were provided with a lid, stored in a secure manner and appear to be in good condition. The operator completes a maintenance inspection on the drums on a weekly basis. A Hazardous Waste label was noted on all drums with the required identification. Municipal dumpster area does not appear to contain any hazardous waste. Perimeter of facility inspected - did not observe any water runoff or staining at this time. Hazardous Waste Emergency Response plan was available for review. Manifests and bills of lading for all hazardous waste streams were reviewed today. Ensure all hazardous waste manifests/disposal documents are maintained on site for at least three years from the date of transport and are available for review during normal business [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-25-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HW

AUTOZONE #4037 (Continued) **S113159267**

Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-20-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS OW/BA x 2 - update store #
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-21-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fountain Valley Fire
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-13-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review: BA/OW pg
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-04-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-12-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review: BA/OW page
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6000

AUTOZONE #4037 (Continued) **S113159267**

Affiliation Type Desc:	Environmental Contact
Entity Name:	Andrew Beaven
Entity Title:	Not reported
Affiliation Address:	Dept 8190, 123 South Front Street
Affiliation City:	Memphis
Affiliation State:	TN
Affiliation Country:	Not reported
Affiliation Zip:	38103
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Autozone
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 965-4083

Affiliation Type Desc:	Parent Corporation
Entity Name:	Auto Zone
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Deborah Williams
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	Dept 8190, 123 South Front St
Affiliation City:	MEMPHIS
Affiliation State:	TN
Affiliation Country:	Not reported
Affiliation Zip:	38103
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	AutoZone Inc
Entity Title:	Not reported
Affiliation Address:	123 S SOUTH FRONT ST
Affiliation City:	MEMPHIS
Affiliation State:	TN
Affiliation Country:	United States

AUTOZONE #4037 (Continued) **S113159267**

Affiliation Zip:	38103
Affiliation Phone:	(901) 495-6500
Affiliation Type Desc:	Property Owner
Entity Name:	Donahue Schriber Realty Group LP
Entity Title:	Not reported
Affiliation Address:	200 East Baker St., Suite 100
Affiliation City:	Costa Mesa
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92626
Affiliation Phone:	(714) 966-3201
Affiliation Type Desc:	Identification Signer
Entity Name:	Deborah Williams
Entity Title:	Environmental Coordinator
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

D14 **EUROPEAN DRY CLEANERS** **DRYCLEANERS** **S103962632**
SE **18834 BROOKHURST ST** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.098 mi.
515 ft. **Site 1 of 8 in cluster D**

Relative: **Higher**

Actual: **14 ft.**

DRYCLEANERS:

EPA Id:	CAL000289168
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	12/16/2004
Facility Active:	No
Inactive Date:	06/30/2005
Facility Addr2:	Not reported
Owner Name:	ERIC ALVAREZ
Owner Address:	18834 BROOKHURST ST
Owner Address 2:	Not reported
Owner Telephone:	7149652477
Contact Name:	ANGELA POGOSIAN
Contact Address:	18834 BROOKHURST ST
Contact Address 2:	Not reported
Contact Telephone:	7149652477
Mailing Name:	Not reported
Mailing Address 1:	18834 BROOKHURST ST
Mailing Address 2:	Not reported
Mailing City:	FOUNTAIN VALLEY
Mailing State:	CA
Mailing Zip:	92708
Owner Fax:	Not reported
Region Code:	4
EPA Id:	CAL000295367

EUROPEAN DRY CLEANERS (Continued) **S103962632**

NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	06/17/2005
Facility Active:	No
Inactive Date:	06/30/2006
Facility Addr2:	Not reported
Owner Name:	JAVIER MORALES
Owner Address:	1638 W BROOK ST
Owner Address 2:	Not reported
Owner Telephone:	7146676837
Contact Name:	TERRY MORALES
Contact Address:	2002 N PONDEROSA #224
Contact Address 2:	Not reported
Contact Telephone:	7145852473
Mailing Name:	Not reported
Mailing Address 1:	18834 BROOKHURST ST
Mailing Address 2:	Not reported
Mailing City:	FOUNTAIN VALLEY
Mailing State:	CA
Mailing Zip:	927087304
Owner Fax:	Not reported
Region Code:	4

D15 **TAYLOR'S CLEANERS** **DRYCLEANERS** **S121697850**
SE **18834 BROOKHURST ST** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA**
0.098 mi.
515 ft. **Site 2 of 8 in cluster D**

Relative: **Higher**
Actual: **14 ft.**

DRYCLEAN SOUTH COAST:

Facility ID:	44102
Application Number:	122504
Permit Number:	M40457
Status:	S
Representative Name:	JAMES TAYLOR
Representative Telephone:	714 5814216
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	02
CCAT Description:	ADSORBER (DRY CLEANING) REGENERATIVE
UTM East:	0
UTM North:	0

D16 **ROYAL OAKS CLEANERS** **RCRA-SQG** **1000290870**
SE **18834 BROOKHURST** **FINDS** **CAD981619059**
< 1/8 **FOUNTAIN VALLEY, CA 92708** **ECHO**
0.098 mi.
515 ft. **Site 3 of 8 in cluster D**

Relative: **Higher**
Actual: **14 ft.**

RCRA-SQG:

Date form received by agency:	06/07/1994
Facility name:	ROYAL OAKS CLEANERS
Facility address:	18834 BROOKHURST

ROYAL OAKS CLEANERS (Continued) **1000290870**

FOUNTAIN VALLEY, CA 92708
EPA ID: CAD981619059
Mailing address: BROOKHURST
FOUNTAIN VALLEY, CA 92708
Contact: NABIL CAPTAN
Contact address: 18834 BROOKHURST
FOUNTAIN VALLEY, CA 92708
Contact country: US
Contact telephone: 714-965-2477
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NABIL CAPTAN
Owner/operator address: 18834 BROOKHURST ST
FOUNTAIN VALLEY, CA 92708
Owner/operator country: Not reported
Owner/operator telephone: 714-965-2477
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002726088

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource

ROYAL OAKS CLEANERS (Continued) **1000290870**

Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000290870
Registry ID:	110002726088
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002726088

D17 **MAGBUAL'S CLEANERS** **DRYCLEANERS** **S121698711**
SE **18834 BROOKHURST ST** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.098 mi.
515 ft. **Site 4 of 8 in cluster D**

Relative:
Higher

Actual:
14 ft.

DRYCLEAN SOUTH COAST:

Facility ID:	58586
Application Number:	161372
Permit Number:	M61296
Status:	S
Representative Name:	AMANTE MAGBUAL
Representative Telephone:	714 8638386
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	411.70001221
UTM North:	3727.8999023

Facility ID:	58586
Application Number:	169590
Permit Number:	D01394
Status:	S
Representative Name:	AMANTE MAGBUAL
Representative Telephone:	714 8638386
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	411.70001221
UTM North:	3727.8999023

D18 **CRYSTAL CLEAR CLEANERS** **DRYCLEANERS** **S121693937**
SE **18834 BROOKHURST** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92704**
0.098 mi.
515 ft. **Site 5 of 8 in cluster D**

Relative: DRYCLEAN SOUTH COAST:
Higher

Facility ID:	112498
Application Number:	329536
Permit Number:	F10163
Status:	A
Representative Name:	BILL ALVAREZ
Representative Telephone:	714 9652477
Permit Status:	INACT_NR
BCAT Number:	000601
BCAT Description:	DRY CLEANING, DRY-TO-DRY NON-VENT, PERC
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	411.57000732
UTM North:	3727.8930664

Actual:
14 ft.

Facility ID:	112498
Application Number:	364324
Permit Number:	F30762
Status:	A
Representative Name:	BILL ALVAREZ
Representative Telephone:	714 9652477
Permit Status:	INACT_NR
BCAT Number:	000603
BCAT Description:	DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	411.57000732
UTM North:	3727.8930664

D19 **EUROPEAN CLEANERS OF FOUNTAIN VALLEY** **DRYCLEANERS** **S121695638**
SE **18834 BROOKHURST ST** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.098 mi.
515 ft. **Site 6 of 8 in cluster D**

Relative: DRYCLEAN SOUTH COAST:
Higher

Facility ID:	143641
Application Number:	440472
Permit Number:	Not reported
Status:	O
Representative Name:	JAVIER MORALES
Representative Telephone:	714 9652477
Permit Status:	Not reported
BCAT Number:	000603
BCAT Description:	DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	0
UTM North:	0

Actual:
14 ft.

D20 **ELEGANTE CLEANERS** **EDR Hist Cleaner** **1018731793**
SE **18834 BROOKHURST ST** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.098 mi.
515 ft. **Site 7 of 8 in cluster D**

Relative: EDR Hist Cleaner
Higher

Actual:
14 ft.

Year:	Name:	Type:
1993	SUN CLEANERS	Drycleaning Plants, Except Rugs, NEC
1994	SUN CLEANERS	Drycleaning Plants, Except Rugs, NEC
1997	ELEGANTE CLEANERS	Garment Pressing And Cleaners' Agents
1998	ELEGANTE CLEANERS	Garment Pressing And Cleaners' Agents
1999	ELEGANTE CLEANERS	Garment Pressing And Cleaners' Agents
2000	ELEGANTE CLEANERS	Garment Pressing And Cleaners' Agents
2001	ELEGANTE CLEANERS	Garment Pressing And Cleaners' Agents
2002	ELEGANTE CLEANERS	Garment Pressing And Cleaners' Agents
2003	ELEGANTE CLEANERS	Garment Pressing And Cleaners' Agents
2004	EUROPEAN CLEANERS BY HI STEAM	Drycleaning Plants, Except Rugs
2004	ELEGANTE CLEANERS	Garment Pressing And Cleaners' Agents

D21 **ROYAL OAK CLEANER** **DRYCLEANERS** **S121693459**
SE **18834 BROOKHURST AVE** **N/A**
< 1/8 **FOUNTAIN VALLEY, CA 92708**
0.098 mi.
515 ft. **Site 8 of 8 in cluster D**

Relative: DRYCLEAN SOUTH COAST:
Higher

Actual:
14 ft.

Facility ID:	101886
Application Number:	303328
Permit Number:	D90927
Status:	O
Representative Name:	NABIL CAPTAN
Representative Telephone:	714 9652477
Permit Status:	INACT_NR
BCAT Number:	000601
BCAT Description:	DRY CLEANING, DRY-TO-DRY NON-VENT, PERC
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	0
UTM North:	0

Facility ID:	101886
Application Number:	294163
Permit Number:	D84308
Status:	O
Representative Name:	NABIL CAPTAN
Representative Telephone:	714 9652477
Permit Status:	INACTIVE
BCAT Number:	000604
BCAT Description:	DRY CLEANING, DRY-TO-DRY, CONVERTED PERC
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	0
UTM North:	0

E22
NE
1/8-1/4
0.140 mi.
741 ft.

ARCO FACILITY NO 09743
18520 BROOKHURST ST
FOUNTAIN VALLEY, CA 92708

Site 1 of 12 in cluster E

Database(s): RCRA-SQG, HIST UST, FINDS, ECHO

EDR ID Number: 1000252478
EPA ID Number: CAD981963754

Relative:
Higher

Actual:
15 ft.

RCRA-SQG:

Date form received by agency:	07/15/2002
Facility name:	ARCO FACILITY NO 09743
Facility address:	18520 BROOKHURST ST FOUNTAIN VALLEY, CA 92708
EPA ID:	CAD981963754
Mailing address:	P O BOX 6038 ARTESIA, CA 90702-6038
Contact:	JACK OMAN
Contact address:	P O BOX 6038 ARTESIA, CA 90702-6038
Contact country:	US
Contact telephone:	714-690-2425
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	B P W COAST PRODUCTS LLC
Owner/operator address:	P O BOX 6038 ARTESIA, CA 90702
Owner/operator country:	Not reported
Owner/operator telephone:	714-690-2425
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

ARCO FACILITY NO 09743 (Continued) **1000252478**

Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/01/1996
Site name: ARCO FACILITY NO 09743
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

HIST UST:
File Number: 0002EF3B
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002EF3B.pdf
Region: STATE
Facility ID: 00000006156
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 2139239876
Owner Name: THRIFTY OIL CO.
Owner Address: 10000 LAKEWOOD BLVD.
Owner City,St,Zip: DOWNEY, CA 90240
Total Tanks: 0006

Tank Num: 001
Container Num: 383-1
Year Installed: 1981
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: .267
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 383-2

ARCO FACILITY NO 09743 (Continued) **1000252478**

Year Installed:	1966
Tank Capacity:	00008139
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	003
Container Num:	383-3
Year Installed:	1966
Tank Capacity:	00010164
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	004
Container Num:	383-7
Year Installed:	1966
Tank Capacity:	00008139
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	005
Container Num:	383-10
Year Installed:	Not reported
Tank Capacity:	00000280
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	12
Leak Detection:	Stock Inventor

Tank Num:	006
Container Num:	383-11
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Click here for Geo Tracker PDF:

FINDS:

Registry ID: 110002757062

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ARCO FACILITY NO 09743 (Continued) **1000252478**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000252478
Registry ID: 110002757062
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002757062

E23 **TESORO USA 63383** **RCRA NonGen / NLR** **1024834017**
NE **18520 BROOKHURST ST** **CAL000373929**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.140 mi.
741 ft. **Site 2 of 12 in cluster E**

Relative:
Higher

Actual:
15 ft.

RCRA NonGen / NLR:
Date form received by agency: 04/25/2012
Facility name: TESORO USA 63383
Facility address: 18520 BROOKHURST ST
FOUNTAIN VALLEY, CA 92708-6708
EPA ID: CAL000373929
Mailing address: 19100 RIDGEWOOD PKWY
SAN ANTONIO, TX 78259-0000
Contact: BRENDA RAMIREZ
Contact address: 19100 RIDGEWOOD PKWY
SAN ANTONIO, TX 78259
Contact country: Not reported
Contact telephone: 210-626-5153
Contact email: BRENDA.RAMIREZ@TSOCORP.COM
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: TESORO REFINING & MARKETING COMPANY
Owner/operator address: 19100 RIDGEWOOD PKWY
SAN ANTONIO, TX 78259
Owner/operator country: Not reported
Owner/operator telephone: 210-626-6153
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: BRENDA RAMIREZ
Owner/operator address: 19100 RIDGEWOOD PKWY
SAN ANTONIO, TX 78259
Owner/operator country: Not reported
Owner/operator telephone: 210-626-5153
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator

TESORO USA 63383 (Continued) **1024834017**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

E24 NE 1/8-1/4 0.140 mi. 741 ft. **TESORO (USA) 63383**
18520 BROOKHURST ST
FOUNTAIN VALLEY, CA 92708
Site 3 of 12 in cluster E

CERS HAZ WASTE **S113098017**
CERS TANKS **N/A**
HAZNET
CERS

Relative: Higher
Actual: 15 ft.

CERS HAZ WASTE:
Site ID: 160247
CERS ID: 10403803
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 160247
Site Name: TESORO (USA) 63383
Violation Date: 08-21-2014
Citation: 23 CCR 16 2636(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)
Violation Description: Failure to continuously monitor the interstitial space of the tank, piping and/or sumps sump such that the leak detection activates an audible/visual alarm when a leak is detected.
Violation Notes: Returned to compliance on 05/18/2015. The annulars sensors for the 91 and 87 aux tanks were determined to be non-operational during testing. They were replaced during the inspection and determined to be operational. This violation was corrected during the inspection. No further corrective action is required.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 160247
Site Name: TESORO (USA) 63383
Violation Date: 11-12-2013
Citation: 23 CCR 16 2666(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2666(c)
Violation Description: Failure of line leak detector to detect a leak and/or failure of audible and visual alarm.
Violation Notes: Returned to compliance on 11/12/2013. The 91-grade leak detector

TESORO (USA) 63383 (Continued) **S113098017**

initially failed testing on 9/11/13. The leak detector was repaired during the testing and determined to be operational. The violation was corrected during the inspection. No further action is required.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 05-15-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and ACCEPTED CERS ID#10403803 Facility Information and UST submittals dated 3/30/17.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-20-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: SB 989 test notification for 8-23
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-08-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Monitor cert notification
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-28-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received Secondary Containment Testing Report Form dated 8/23/17. The results indicate all sumps, tank annulars, piping secondaries and UDCs PASSED. A copy of this report will be sent to Burke.D.Albelda@tsocorp.com
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-11-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Accepted UST documents in CERS
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

TESORO (USA) 63383 (Continued) **S113098017**

Eval General Type:	Other/Unknown
Eval Date:	05-18-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Fix violation status in EC (close > open for previously corrected violations)
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-20-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Consent to inspect and take photos was granted by the assistant manager, Jeanne Strickler. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster area, and no photos were taken. The following were observed: 55-gallon drum of liquid with fuel 55-gallon drum of solids with fuel The containers were observed properly stored and labeled. Hazardous waste disposal documents were reviewed. No hazardous waste violations were observed on this date. A copy of this report will be sent to Albelda, Burke D <Burke.D.Albelda@tsocorp.com>
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-30-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification for 7-20
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-13-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Provide emergency shut off sign
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-02-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Innactive
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-22-2015

TESORO (USA) 63383 (Continued) **S113098017**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-01-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine UST inspection during the annual monitoring system certification. Aaron Medina of Fastech provided the following valid credentials: Veeder-Root, ICC, VMI. The manager, Nicole Foltz was also present during this inspection. There are three 12,000-gallon USTs onsite: 87 main, 87 secondary, 91. PLLDs are installed on the 87 main and 91 product lines. Overfill prevention is provided by ATGs and an outside annunciator. There are VR-420 sensors in the dry annulars. The fill sumps, STP sumps and all four UDCs have VR-208 sensors installed. The UST system is monitored by a Veeder-Root TLS-350R panel. The following documents were reviewed: Permit Monitor Cert, SB989 DO inspections, DO Training 7/6/16 Owner/Operator Agreement Monitoring Plan, Response Plan No UST violations were observed on this date. A copy of this report will be sent to Burke.D.Albelda@tsocorp.com
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-11-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine hazardous waste inspection. Observed the facility and inspected hazardous waste storage. The containers are stored closed and properly labeled. No evidence of hazardous waste spillage or runoff was observed. Manifests and emergency plan are available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-06-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received Monitoring System Certification and Site Map dated 7/12/17 for the testing of one VR-420 sensor in the 87 auxiliary annular. The results indicate the sensor PASSED. A copy of this report will be sent to Burke.D.Albelda@tsocorp.com
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-12-2013
Violations Found:	Yes

TESORO (USA) 63383 (Continued) **S113098017**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received the following documents: Monitoring system certification dated 9/11/13 Spill bucket test (visual) report dated 9/11/13 Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-12-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review. NOT ACCEPTED. Expired CFO letter.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-15-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST documents accepted in CERS. CFR valid from 3/27/15-3/28/16 Belshire remains DO Revised facility diagram and leak response plan received Owner Operator agreement submitted (operator Seung Kim, owner Tesoro)
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-12-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor certification notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-21-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for routine UST inspection, monitoring system certification, and spill bucket testing. The facility has three double-walled tanks monitored by a Veeder Root system monitoring system. The monitoring panel reads ?all functions normal.? Positive shutdown and fail safe programming was verified. The in-tank probes are used for overfill prevention. The sensors in the tank annulars, turbine sumps, fill sumps, and UDCs all shutdown the turbines when submerged in fuel. The annulars sensors for the 91 and 87 aux tanks were determined to be non-operational during testing. They were replaced during the inspection and determined to be operational. The electronic line leak detectors were tested with a simulated 3 gph test and were determined to be operational. The in-tank probes are used for overfill prevention. All three probes triggered an audible and visual alarm when positioned at 90% tank capacity. Spill buckets were visually tested for 30 [Truncated]

TESORO (USA) 63383 (Continued) **S113098017**

Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-04-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received email from Burke Albelda indicating there was an onsite spill (approx 4 gallons, did not leave site) that had been reported to OES. Informed Burke that a URR is required.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-21-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Accepted UST documents in CERS. DO = Belshire personnel CFR is dated 3/22/16
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-01-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-09-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	An on-site inspection was conducted this date to witness the annual monitoring system certification. Jim Simeone (Fastech) conducted the monitoring system certification and provided current Veeder-Root and ICC certifications. This facility contains: 3 - USTs (91, 87 aux, 87 main) Monitor system is a Veeder-Root monitor panel and reads all functions normal. Overfill protection provided by audible/visual alarms. Sensors were observed positioned so as to initiate alarms at the earliest point possible. Sensors were re-positioned in a true vertical position upon installation after testing. Alarm history and setup tape reviewed while on site. The following were tested: - Sensors, initiated positive shutdown to the turbines when tested in water - ?Fail Safe? and ?Positive Shutdown? - Overfill protection (ATGs set at 90% capacity) for an external audible and visual alarm - Spill buckets using a visual hydrostatic test - Leak detectors. PLLDs reviewed onsite: - [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

TESORO (USA) 63383 (Continued) **S113098017**

Eval General Type:	Other/Unknown
Eval Date:	07-15-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor Certification Notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-17-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency received the monitoring system certification test report, site map, and spill bucket test report for a test conducted 7/9/18. The following components PASSED testing: - Tank Annular Sensors (3) - STP Sump Sensors (3) - Fill Sump Sensors (3) - UDC Sensors (4) - Line Leak Detectors - Audible/Visual Overfill Alarm - Fail Safe/Sensor Out - Spill Buckets Visual Test
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-20-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine UST inspection during the annual monitoring system certification. Cliff Gonzales of Fastech provided the following valid certifications: ICC, Veeder-Root, VMI. The assistant manager, Jeanne Strickler was also present during this inspection. There are three 12,000-gallon, double-walled tanks at this site: 87 main, 87 auxiliary, 91. VR-420 sensors are in use in the dry annulars. Overfill prevention is provided by ATGs connected to an outside annunciator. VR-208 sensors are in use in the fill and STP sumps of each tank, and in all 4 UDCs. Veeder-Root electronic leak detectors (PLLDs) are in use on the product lines (87 main and auxiliary share a single leak detector. The UST system is monitored by a Veeder-Root TLS-350R panel. All sump and annular sensors triggered positive shutdown of their respective turbines when immersed in water. Fail Safe and Sensor Out were demonstrated operational. The spill buckets were tested hydrostatically for one [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-05-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SB989 Notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-11-2015

TESORO (USA) 63383 (Continued) **S113098017**

Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine UST inspection, monitoring system certification, and spill bucket testing. The facility has three double-walled tanks monitored by a Veeder Root system monitoring system. The monitoring panel reads ?all functions normal.? Positive shutdown and fail safe programming was verified. The in-tank probes are used for overfill prevention. The sensors in the tank annulars, turbine sumps, fill sumps, and UDCs all shutdown the turbines when submerged in fuel. The sensor in the 87A fill sump was not functional. It was replaced during the inspection. The electronic line leak detectors were tested with a simulated 3 gph test and were determined to be operational. The in-tank probes are used for overfill prevention. All three probes triggered an audible and visual alarm when positioned at 90% tank capacity. Spill buckets were tested after inspector departure. Testing was conducted by Stephen Dombrowski of FasTech. Technician certifications (VR, ICC) were [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-21-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for routine hazardous waste inspection. Observed the facility and inspected hazardous waste storage. The containers are stored closed and properly labeled. Manifests and emergency plan are available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-27-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS This Agency received the following documents: - Monitoring system certification dated 8/21/14 - Spill bucket test (visual) report dated 8/21/14 Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-11-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine underground storage tank inspection, monitoring system certification, and spill bucket testing. The facility has three double-walled tanks monitored by a Veeder-Root TLS-350 system. The monitor is operational for audible and visual alarms. Positive shutdown and fail safe programming were verified. The in-tank probes are used for overfill prevention and are programmed to alarm at 90% tank capacity. The sensors in the tank annulars, turbine sumps, fill sumps, and UDCs shutdown the turbines when submerged in liquid. In-tank probes and leak detectors were tested after inspector

TESORO (USA) 63383 (Continued) **S113098017**

departure. Testing was conducted by Robert Vargas of FasTech. Technician certifications (VR, ICC, VMI) were verified. Certification stickers were attached to all tested components. Please submit the test reports to this Agency within 30 days. The following documents are available for review: permit to operate, leak response plan, monitoring plan, test reports, maintenance [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-29-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This Agency received the secondary containment test report dated 9/16/14. The test report appears consistent with the OCHCA-approved testing procedure submitted by FasTech. The following components PASSED testing: - Tank annulars (3) - Secondary product piping (4- 87, 87aux, 87 siphon, 91) - Turbine sumps (3) - Fill sumps (3) - UDCs (4) No components failed testing.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-19-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST documents accepted in CERS: - DO Owner Statement: DO is Belshire personnel
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Coordinates:
Site ID: 160247
Facility Name: TESORO (USA) 63383
Env Int Type Code: HWG
Program ID: 10403803
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.692150
Longitude: -117.954020

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City: SAN ANTONIO
Affiliation State: TX
Affiliation Country: Not reported
Affiliation Zip: 78259
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner

TESORO (USA) 63383 (Continued) **S113098017**

Entity Name: Tesoro Refining & Marketing Company LLC
Entity Title: Not reported
Affiliation Address: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City: SAN ANTONIO
Affiliation State: TX
Affiliation Country: United States
Affiliation Zip: 78259
Affiliation Phone: (210) 626-6153

Affiliation Type Desc: UST Property Owner Name
Entity Name: THRIFTY OIL COMPANY
Entity Title: Not reported
Affiliation Address: 13116 IMPERIAL HIGHWAY
Affiliation City: SANTA FE SPRINGS
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90670
Affiliation Phone: (562) 921-3581

Affiliation Type Desc: Identification Signer
Entity Name: BURKE D. ALBELDA
Entity Title: ENVIRONMENTAL COMPLIANCE SUPERVISOR
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: UST Permit Applicant
Entity Name: BURKE D. ALBELDA
Entity Title: ENVIRONMENTAL COMPLIANCE SUPERVISOR
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (310) 869-4096

Affiliation Type Desc: UST Tank Owner
Entity Name: Thrifty Oil Company
Entity Title: Not reported
Affiliation Address: 13116 IMPERIAL HIGHWAY
Affiliation City: SANTA FE SPRINGS
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90670
Affiliation Phone: (562) 921-3581

Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611

TESORO (USA) 63383 (Continued) **S113098017**

Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	Environmental Contact
Entity Name:	BURKE D. ALBELDA
Entity Title:	Not reported
Affiliation Address:	400 OCEANGATE BLVD., SUITE 600
Affiliation City:	LONG BEACH
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90802
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Tesoro Refining & Marketing Company LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(210) 626-6153
Affiliation Type Desc:	Parent Corporation
Entity Name:	Tesoro Refining and Marketing Company LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	THRIFTY OIL COMPANY
Entity Title:	Not reported
Affiliation Address:	13116 IMPERIAL HIGHWAY
Affiliation City:	SANTA FE SPRINGS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90670
Affiliation Phone:	(562) 921-3581
Affiliation Type Desc:	UST Tank Operator
Entity Name:	R&M PACIFIC RIM INC (SEUNG KIM)
Entity Title:	Not reported
Affiliation Address:	18520 BROOKHURST ST
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(562) 402-8080
Affiliation Type Desc:	Document Preparer
Entity Name:	BELSHIRE ENVIRONMENTAL SERVICES, INC.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

TESORO (USA) 63383 (Continued) **S113098017**

Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

CERS TANKS:
Facility Name: TESORO (USA) 63383
Site ID: 160247
CERS ID: 10403803
CERS Description: Underground Storage Tank

Violations:
Site ID: 160247
Site Name: TESORO (USA) 63383
Violation Date: 08-21-2014
Citation: 23 CCR 16 2636(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)
Violation Description: Failure to continuously monitor the interstitial space of the tank, piping and/or sumps sump such that the leak detection activates an audible/visual alarm when a leak is detected.
Violation Notes: Returned to compliance on 05/18/2015. The annulars sensors for the 91 and 87 aux tanks were determined to be non-operational during testing. They were replaced during the inspection and determined to be operational. This violation was corrected during the inspection. No further corrective action is required.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 160247
Site Name: TESORO (USA) 63383
Violation Date: 11-12-2013
Citation: 23 CCR 16 2666(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2666(c)
Violation Description: Failure of line leak detector to detect a leak and/or failure of audible and visual alarm.
Violation Notes: Returned to compliance on 11/12/2013. The 91-grade leak detector initially failed testing on 9/11/13. The leak detector was repaired during the testing and determined to be operational. The violation was corrected during the inspection. No further action is required.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 05-15-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and ACCEPTED CERS ID#10403803 Facility Information and UST submittals dated 3/30/17.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown

TESORO (USA) 63383 (Continued) **S113098017**

Eval Date:	06-20-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SB 989 test notification for 8-23
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-08-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-28-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received Secondary Containment Testing Report Form dated 8/23/17. The results indicate all sumps, tank annulars, piping secondaries and UDCs PASSED. A copy of this report will be sent to Burke.D.Albelda@tsocorp.com
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-11-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Accepted UST documents in CERS
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-18-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Fix violation status in EC (close > open for previously corrected violations)
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-20-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Consent to inspect and take photos was granted by the assistant manager, Jeanne Strickler. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster area, and no photos were taken. The following were observed:

TESORO (USA) 63383 (Continued) **S113098017**

55-gallon drum of liquid with fuel 55-gallon drum of solids with fuel The containers were observed properly stored and labeled. Hazardous waste disposal documents were reviewed. No hazardous waste violations were observed on this date. A copy of this report will be sent to Albelda, Burke D <Burke.D.Albelda@tsocorp.com>
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-30-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Monitor cert notification for 7-20
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Provide emergency shut off sign
Eval Division: Fountain Valley Fire
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-02-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Innactive
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-22-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Monitor cert notification
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-01-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Onsite to conduct a routine UST inspection during the annual monitoring system certification. Aaron Medina of Fastech provided the following valid credentials: Veeder-Root, ICC, VMI. The manager, Nicole Foltz was also present during this inspection. There are three 12,000-gallon USTs onsite: 87 main, 87 secondary, 91. PLLDs are installed on the 87 main and 91 product lines. Overfill prevention is provided by ATGs and an outside annunciator. There are VR-420 sensors in the dry annulars. The fill sumps, STP sumps and all four UDCs have

TESORO (USA) 63383 (Continued) **S113098017**

VR-208 sensors installed. The UST system is monitored by a Veeder-Root TLS-350R panel. The following documents were reviewed: Permit Monitor Cert, SB989 DO inspections, DO Training 7/6/16 Owner/Operator Agreement Monitoring Plan, Response Plan No UST violations were observed on this date. A copy of this report will be sent to Burke.D.Albelda@tsocorp.com

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-11-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine hazardous waste inspection. Observed the facility and inspected hazardous waste storage. The containers are stored closed and properly labeled. No evidence of hazardous waste spillage or runoff was observed. Manifests and emergency plan are available for review.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-06-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received Monitoring System Certification and Site Map dated 7/12/17 for the testing of one VR-420 sensor in the 87 auxiliary annular. The results indicate the sensor PASSED. A copy of this report will be sent to Burke.D.Albelda@tsocorp.com
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-12-2013
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: This Agency has received the following documents: Monitoring system certification dated 9/11/13 Spill bucket test (visual) report dated 9/11/13 Thank you.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-12-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review. NOT ACCEPTED. Expired CFO letter.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-15-2015

TESORO (USA) 63383 (Continued) **S113098017**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST documents accepted in CERS. CFR valid from 3/27/15-3/28/16 Belshire remains DO Revised facility diagram and leak response plan received Owner Operator agreement submitted (operator Seung Kim, owner Tesoro)
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-12-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor certification notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-21-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for routine UST inspection, monitoring system certification, and spill bucket testing. The facility has three double-walled tanks monitored by a Veeder Root system monitoring system. The monitoring panel reads ?all functions normal.? Positive shutdown and fail safe programming was verified. The in-tank probes are used for overfill prevention. The sensors in the tank annulars, turbine sumps, fill sumps, and UDCs all shutdown the turbines when submerged in fuel. The annulars sensors for the 91 and 87 aux tanks were determined to be non-operational during testing. They were replaced during the inspection and determined to be operational. The electronic line leak detectors were tested with a simulated 3 gph test and were determined to be operational. The in-tank probes are used for overfill prevention. All three probes triggered an audible and visual alarm when positioned at 90% tank capacity. Spill buckets were visually tested for 30 [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-04-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received email from Burke Albelda indicating there was an onsite spill (approx 4 gallons, did not leave site) that had been reported to OES. Informed Burke that a URR is required.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-21-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency

TESORO (USA) 63383 (Continued) **S113098017**

Eval Notes:	Accepted UST documents in CERS. DO = Belshire personnel CFR is dated 3/22/16
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-01-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-09-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	An on-site inspection was conducted this date to witness the annual monitoring system certification. Jim Simeone (Fastech) conducted the monitoring system certification and provided current Veeder-Root and ICC certifications. This facility contains: 3 - USTs (91, 87 aux, 87 main) Monitor system is a Veeder-Root monitor panel and reads all functions normal. Overfill protection provided by audible/visual alarms. Sensors were observed positioned so as to initiate alarms at the earliest point possible. Sensors were re-positioned in a true vertical position upon installation after testing. Alarm history and setup tape reviewed while on site. The following were tested: - Sensors, initiated positive shutdown to the turbines when tested in water - ?Fail Safe? and ?Positive Shutdown? - Overfill protection (ATGs set at 90% capacity) for an external audible and visual alarm - Spill buckets using a visual hydrostatic test - Leak detectors. PLLDs reviewed onsite: - [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-15-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor Certification Notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-17-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency received the monitoring system certification test report, site map, and spill bucket test report for a test conducted 7/9/18. The following components PASSED testing: - Tank Annular Sensors (3) - STP Sump Sensors (3) - Fill Sump Sensors (3) - UDC Sensors (4) - Line Leak Detectors - Audible/Visual Overfill Alarm - Fail Safe/Sensor Out - Spill Buckets Visual Test

TESORO (USA) 63383 (Continued) **S113098017**

Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-20-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine UST inspection during the annual monitoring system certification. Cliff Gonzales of Fastech provided the following valid certifications: ICC, Veeder-Root, VMI. The assistant manager, Jeanne Strickler was also present during this inspection. There are three 12,000-gallon, double-walled tanks at this site: 87 main, 87 auxiliary, 91. VR-420 sensors are in use in the dry annulars. Overfill prevention is provided by ATGs connected to an outside annunciator. VR-208 sensors are in use in the fill and STP sumps of each tank, and in all 4 UDCs. Veeder-Root electronic leak detectors (PLLDs) are in use on the product lines (87 main and auxiliary share a single leak detector. The UST system is monitored by a Veeder-Root TLS-350R panel. All sump and annular sensors triggered positive shutdown of their respective turbines when immersed in water. Fail Safe and Sensor Out were demonstrated operational. The spill buckets were tested hydrostatically for one [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-05-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SB989 Notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-11-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine UST inspection, monitoring system certification, and spill bucket testing. The facility has three double-walled tanks monitored by a Veeder Root system monitoring system. The monitoring panel reads ?all functions normal.? Positive shutdown and fail safe programming was verified. The in-tank probes are used for overfill prevention. The sensors in the tank annulars, turbine sumps, fill sumps, and UDCs all shutdown the turbines when submerged in fuel. The sensor in the 87A fill sump was not functional. It was replaced during the inspection. The electronic line leak detectors were tested with a simulated 3 gph test and were determined to be operational. The in-tank probes are used for overfill prevention. All three probes triggered an audible and visual alarm when positioned at 90% tank capacity. Spill buckets were tested after inspector departure. Testing was conducted by Stephen Dombrowski of FasTech. Technician certifications (VR, ICC) were [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST

TESORO (USA) 63383 (Continued) **S113098017**

Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-21-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for routine hazardous waste inspection. Observed the facility and inspected hazardous waste storage. The containers are stored closed and properly labeled. Manifests and emergency plan are available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-27-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS This Agency received the following documents: - Monitoring system certification dated 8/21/14 - Spill bucket test (visual) report dated 8/21/14 Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-11-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine underground storage tank inspection, monitoring system certification, and spill bucket testing. The facility has three double-walled tanks monitored by a Veeder-Root TLS-350 system. The monitor is operational for audible and visual alarms. Positive shutdown and fail safe programming were verified. The in-tank probes are used for overfill prevention and are programmed to alarm at 90% tank capacity. The sensors in the tank annulars, turbine sumps, fill sumps, and UDCs shutdown the turbines when submerged in liquid. In-tank probes and leak detectors were tested after inspector departure. Testing was conducted by Robert Vargas of FasTech. Technician certifications (VR, ICC, VMI) were verified. Certification stickers were attached to all tested components. Please submit the test reports to this Agency within 30 days. The following documents are available for review: permit to operate, leak response plan, monitoring plan, test reports, maintenance [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-29-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency received the secondary containment test report dated 9/16/14. The test report appears consistent with the OCHCA-approved testing procedure submitted by FasTech. The following components PASSED testing: - Tank annulars (3) - Secondary product piping (4- 87, 87aux, 87 siphon, 91) - Turbine sumps (3) - Fill sumps (3) - UDCs (4)

TESORO (USA) 63383 (Continued) **S113098017**

No components failed testing.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-19-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST documents accepted in CERS: - DO Owner Statement: DO is Belshire personnel
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Coordinates:
Site ID: 160247
Facility Name: TESORO (USA) 63383
Env Int Type Code: HWG
Program ID: 10403803
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.692150
Longitude: -117.954020

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City: SAN ANTONIO
Affiliation State: TX
Affiliation Country: Not reported
Affiliation Zip: 78259
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Tesoro Refining & Marketing Company LLC
Entity Title: Not reported
Affiliation Address: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City: SAN ANTONIO
Affiliation State: TX
Affiliation Country: United States
Affiliation Zip: 78259
Affiliation Phone: (210) 626-6153

Affiliation Type Desc: UST Property Owner Name
Entity Name: THRIFTY OIL COMPANY
Entity Title: Not reported
Affiliation Address: 13116 IMPERIAL HIGHWAY
Affiliation City: SANTA FE SPRINGS
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90670
Affiliation Phone: (562) 921-3581

TESORO (USA) 63383 (Continued) **S113098017**

Affiliation Type Desc:	Identification Signer
Entity Name:	BURKE D. ALBELDA
Entity Title:	ENVIRONMENTAL COMPLIANCE SUPERVISOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	BURKE D. ALBELDA
Entity Title:	ENVIRONMENTAL COMPLIANCE SUPERVISOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(310) 869-4096

Affiliation Type Desc:	UST Tank Owner
Entity Name:	Thrifty Oil Company
Entity Title:	Not reported
Affiliation Address:	13116 IMPERIAL HIGHWAY
Affiliation City:	SANTA FE SPRINGS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90670
Affiliation Phone:	(562) 921-3581

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Environmental Contact
Entity Name:	BURKE D. ALBELDA
Entity Title:	Not reported
Affiliation Address:	400 OCEANGATE BLVD., SUITE 600
Affiliation City:	LONG BEACH
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90802
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Tesoro Refining & Marketing Company LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

TESORO (USA) 63383 (Continued) **S113098017**

Affiliation Zip: Not reported
Affiliation Phone: (210) 626-6153

Affiliation Type Desc: Parent Corporation
Entity Name: Tesoro Refining and Marketing Company LLC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: THRIFTY OIL COMPANY
Entity Title: Not reported
Affiliation Address: 13116 IMPERIAL HIGHWAY
Affiliation City: SANTA FE SPRINGS
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90670
Affiliation Phone: (562) 921-3581

Affiliation Type Desc: UST Tank Operator
Entity Name: R&M PACIFIC RIM INC (SEUNG KIM)
Entity Title: Not reported
Affiliation Address: 18520 BROOKHURST ST
Affiliation City: FOUNTAIN VALLEY
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92708
Affiliation Phone: (562) 402-8080

Affiliation Type Desc: Document Preparer
Entity Name: BELSHIRE ENVIRONMENTAL SERVICES, INC.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

HAZNET:
Site Name: BP WEST COAST PRODUCTS LLC 09743
Year: 2008
GEPAID: CAL000187293
Contact: Waste Specialist
Telephone: 7146703958
Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: CAD028409019
TSD County: Los Angeles
Tons: 0.0084

TESORO (USA) 63383 (Continued) **S113098017**

CA Waste Code: 135-Unspecified aqueous solution
Method: H135-Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Facility County: Orange

Site Name: BP WEST COAST PRODUCTS LLC 09743
Year: 2004
GEPAID: CAL000187293
Contact: Waste Specialist
Telephone: 7146703958
Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 0.042
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: R01-Recycler
Facility County: Orange

Site Name: BP WEST COAST PRODUCTS LLC 09743
Year: 2004
GEPAID: CAL000187293
Contact: Waste Specialist
Telephone: 7146703958
Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Tons: 0.175
CA Waste Code: 352-Other organic solids
Method: H01-Transfer Station
Facility County: Orange

Site Name: BP WEST COAST PRODUCTS LLC 09743
Year: 2001
GEPAID: CAL000187293
Contact: Waste Specialist
Telephone: 7146703958
Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 9.702
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: -
Facility County: Orange

Site Name: BP WEST COAST PRODUCTS LLC 09743
Year: 2001
GEPAID: CAL000187293
Contact: Waste Specialist

TESORO (USA) 63383 (Continued) **S113098017**

Telephone: 7146703958
Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 4.116
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: R01-Recycler
Facility County: Orange

Click this hyperlink while viewing on your computer to access
4 additional CA_HAZNET: record(s) in the EDR Site Report.

CERS TANKS:
Site ID: 160247
CERS ID: 10403803
Site Name: TESORO (USA) 63383
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 160247
Site Name: TESORO (USA) 63383
Violation Date: 08-21-2014
Citation: 23 CCR 16 2636(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)
Violation Description: Failure to continuously monitor the interstitial space of the tank, piping and/or sumps sump such that the leak detection activates an audible/visual alarm when a leak is detected.
Violation Notes: Returned to compliance on 05/18/2015. The annulars sensors for the 91 and 87 aux tanks were determined to be non-operational during testing. They were replaced during the inspection and determined to be operational. This violation was corrected during the inspection. No further corrective action is required.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 160247
Site Name: TESORO (USA) 63383
Violation Date: 11-12-2013
Citation: 23 CCR 16 2666(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2666(c)
Violation Description: Failure of line leak detector to detect a leak and/or failure of audible and visual alarm.
Violation Notes: Returned to compliance on 11/12/2013. The 91-grade leak detector initially failed testing on 9/11/13. The leak detector was repaired during the testing and determined to be operational. The violation was corrected during the inspection. No further action is required.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 05-15-2017

TESORO (USA) 63383 (Continued) **S113098017**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed and ACCEPTED CERS ID#10403803 Facility Information and UST submittals dated 3/30/17.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-20-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SB 989 test notification for 8-23
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-08-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-28-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received Secondary Containment Testing Report Form dated 8/23/17. The results indicate all sumps, tank annulars, piping secondaries and UDCs PASSED. A copy of this report will be sent to Burke.D.Albelda@tsocorp.com
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-11-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Accepted UST documents in CERS
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-18-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Fix violation status in EC (close > open for previously corrected violations)
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

TESORO (USA) 63383 (Continued) **S113098017**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-20-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Consent to inspect and take photos was granted by the assistant manager, Jeanne Strickler. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster area, and no photos were taken. The following were observed: 55-gallon drum of liquid with fuel 55-gallon drum of solids with fuel The containers were observed properly stored and labeled. Hazardous waste disposal documents were reviewed. No hazardous waste violations were observed on this date. A copy of this report will be sent to Albelda, Burke D <Burke.D.Albelda@tsocorp.com>
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	05-30-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification for 7-20
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-13-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Provide emergency shut off sign
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-02-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Innactive
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	07-22-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-01-2016
Violations Found:	No

TESORO (USA) 63383 (Continued) **S113098017**

Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine UST inspection during the annual monitoring system certification. Aaron Medina of Fastech provided the following valid credentials: Veeder-Root, ICC, VMI. The manager, Nicole Foltz was also present during this inspection. There are three 12,000-gallon USTs onsite: 87 main, 87 secondary, 91. PLLDs are installed on the 87 main and 91 product lines. Overfill prevention is provided by ATGs and an outside annunciator. There are VR-420 sensors in the dry annulars. The fill sumps, STP sumps and all four UDCs have VR-208 sensors installed. The UST system is monitored by a Veeder-Root TLS-350R panel. The following documents were reviewed: Permit Monitor Cert, SB989 DO inspections, DO Training 7/6/16 Owner/Operator Agreement Monitoring Plan, Response Plan No UST violations were observed on this date. A copy of this report will be sent to Burke.D.Albelda@tsocorp.com
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-11-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine hazardous waste inspection. Observed the facility and inspected hazardous waste storage. The containers are stored closed and properly labeled. No evidence of hazardous waste spillage or runoff was observed. Manifests and emergency plan are available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-06-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received Monitoring System Certification and Site Map dated 7/12/17 for the testing of one VR-420 sensor in the 87 auxiliary annular. The results indicate the sensor PASSED. A copy of this report will be sent to Burke.D.Albelda@tsocorp.com
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-12-2013
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received the following documents: Monitoring system certification dated 9/11/13 Spill bucket test (visual) report dated 9/11/13 Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-12-2018

TESORO (USA) 63383 (Continued) **S113098017**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review. NOT ACCEPTED. Expired CFO letter.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-15-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST documents accepted in CERS. CFR valid from 3/27/15-3/28/16 Belshire remains DO Revised facility diagram and leak response plan received Owner Operator agreement submitted (operator Seung Kim, owner Tesoro)
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-12-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor certification notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-21-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for routine UST inspection, monitoring system certification, and spill bucket testing. The facility has three double-walled tanks monitored by a Veeder Root system monitoring system. The monitoring panel reads ?all functions normal.? Positive shutdown and fail safe programming was verified. The in-tank probes are used for overfill prevention. The sensors in the tank annulars, turbine sumps, fill sumps, and UDCs all shutdown the turbines when submerged in fuel. The annulars sensors for the 91 and 87 aux tanks were determined to be non-operational during testing. They were replaced during the inspection and determined to be operational. The electronic line leak detectors were tested with a simulated 3 gph test and were determined to be operational. The in-tank probes are used for overfill prevention. All three probes triggered an audible and visual alarm when positioned at 90% tank capacity. Spill buckets were visually tested for 30 [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-04-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received email from Burke Albelda indicating there was an onsite spill (approx 4 gallons, did not leave site) that had been reported to OES.

TESORO (USA) 63383 (Continued) **S113098017**

	Informed Burke that a URR is required.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-21-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Accepted UST documents in CERS. DO = Belshire personnel CFR is dated 3/22/16
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-01-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-09-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	An on-site inspection was conducted this date to witness the annual monitoring system certification. Jim Simeone (Fastech) conducted the monitoring system certification and provided current Veeder-Root and ICC certifications. This facility contains: 3 - USTs (91, 87 aux, 87 main) Monitor system is a Veeder-Root monitor panel and reads all functions normal. Overfill protection provided by audible/visual alarms. Sensors were observed positioned so as to initiate alarms at the earliest point possible. Sensors were re-positioned in a true vertical position upon installation after testing. Alarm history and setup tape reviewed while on site. The following were tested: - Sensors, initiated positive shutdown to the turbines when tested in water - ?Fail Safe? and ?Positive Shutdown? - Overfill protection (ATGs set at 90% capacity) for an external audible and visual alarm - Spill buckets using a visual hydrostatic test - Leak detectors. PLLDs reviewed onsite: - [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-15-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor Certification Notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown

TESORO (USA) 63383 (Continued) **S113098017**

Eval Date:	07-17-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency received the monitoring system certification test report, site map, and spill bucket test report for a test conducted 7/9/18. The following components PASSED testing: - Tank Annular Sensors (3) - STP Sump Sensors (3) - Fill Sump Sensors (3) - UDC Sensors (4) - Line Leak Detectors - Audible/Visual Overfill Alarm - Fail Safe/Sensor Out - Spill Buckets Visual Test
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-20-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine UST inspection during the annual monitoring system certification. Cliff Gonzales of Fastech provided the following valid certifications: ICC, Veeder-Root, VMI. The assistant manager, Jeanne Strickler was also present during this inspection. There are three 12,000-gallon, double-walled tanks at this site: 87 main, 87 auxiliary, 91. VR-420 sensors are in use in the dry annulars. Overfill prevention is provided by ATGs connected to an outside annunciator. VR-208 sensors are in use in the fill and STP sumps of each tank, and in all 4 UDCs. Veeder-Root electronic leak detectors (PLLDs) are in use on the product lines (87 main and auxiliary share a single leak detector. The UST system is monitored by a Veeder-Root TLS-350R panel. All sump and annular sensors triggered positive shutdown of their respective turbines when immersed in water. Fail Safe and Sensor Out were demonstrated operational. The spill buckets were tested hydrostatically for one [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-05-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SB989 Notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-11-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine UST inspection, monitoring system certification, and spill bucket testing. The facility has three double-walled tanks monitored by a Veeder Root system monitoring system. The monitoring panel reads ?all functions normal.? Positive shutdown and fail safe programming was verified. The in-tank probes are used for overfill prevention. The sensors in the tank annulars, turbine sumps, fill sumps, and UDCs all shutdown the turbines when submerged in fuel. The sensor in the 87A fill sump was not functional. It was replaced during

TESORO (USA) 63383 (Continued) **S113098017**

the inspection. The electronic line leak detectors were tested with a simulated 3 gph test and were determined to be operational. The in-tank probes are used for overfill prevention. All three probes triggered an audible and visual alarm when positioned at 90% tank capacity. Spill buckets were tested after inspector departure. Testing was conducted by Stephen Dombrowski of FasTech. Technician certifications (VR, ICC) were [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-21-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS On site for routine hazardous waste inspection. Observed the facility and inspected hazardous waste storage. The containers are stored closed and properly labeled. Manifests and emergency plan are available for review.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-27-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: INSPECTOR COMMENTS This Agency received the following documents: - Monitoring system certification dated 8/21/14 - Spill bucket test (visual) report dated 8/21/14 Thank you.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-11-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine underground storage tank inspection, monitoring system certification, and spill bucket testing. The facility has three double-walled tanks monitored by a Veeder-Root TLS-350 system. The monitor is operational for audible and visual alarms. Positive shutdown and fail safe programming were verified. The in-tank probes are used for overfill prevention and are programmed to alarm at 90% tank capacity. The sensors in the tank annulars, turbine sumps, fill sumps, and UDCs shutdown the turbines when submerged in liquid. In-tank probes and leak detectors were tested after inspector departure. Testing was conducted by Robert Vargas of FasTech. Technician certifications (VR, ICC, VMI) were verified. Certification stickers were attached to all tested components. Please submit the test reports to this Agency within 30 days. The following documents are available for review: permit to operate, leak response plan, monitoring plan, test reports, maintenance [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

TESORO (USA) 63383 (Continued) **S113098017**

Eval General Type:	Other/Unknown
Eval Date:	09-29-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency received the secondary containment test report dated 9/16/14. The test report appears consistent with the OCHCA-approved testing procedure submitted by FasTech. The following components PASSED testing: - Tank annulars (3) - Secondary product piping (4- 87, 87aux, 87 siphon, 91) - Turbine sumps (3) - Fill sumps (3) - UDCs (4) No components failed testing.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	10-19-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST documents accepted in CERS: - DO Owner Statement: DO is Belshire personnel
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Coordinates:

Site ID:	160247
Facility Name:	TESORO (USA) 63383
Env Int Type Code:	HWG
Program ID:	10403803
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.692150
Longitude:	-117.954020

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City:	SAN ANTONIO
Affiliation State:	TX
Affiliation Country:	Not reported
Affiliation Zip:	78259
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Tesoro Refining & Marketing Company LLC
Entity Title:	Not reported
Affiliation Address:	19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City:	SAN ANTONIO
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	78259
Affiliation Phone:	(210) 626-6153

Affiliation Type Desc:	UST Property Owner Name

TESORO (USA) 63383 (Continued) **S113098017**

Entity Name:	THRIFTY OIL COMPANY
Entity Title:	Not reported
Affiliation Address:	13116 IMPERIAL HIGHWAY
Affiliation City:	SANTA FE SPRINGS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90670
Affiliation Phone:	(562) 921-3581
Affiliation Type Desc:	Identification Signer
Entity Name:	BURKE D. ALBELDA
Entity Title:	ENVIRONMENTAL COMPLIANCE SUPERVISOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	BURKE D. ALBELDA
Entity Title:	ENVIRONMENTAL COMPLIANCE SUPERVISOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(310) 869-4096
Affiliation Type Desc:	UST Tank Owner
Entity Name:	Thrifty Oil Company
Entity Title:	Not reported
Affiliation Address:	13116 IMPERIAL HIGHWAY
Affiliation City:	SANTA FE SPRINGS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90670
Affiliation Phone:	(562) 921-3581
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	Environmental Contact
Entity Name:	BURKE D. ALBELDA
Entity Title:	Not reported
Affiliation Address:	400 OCEANGATE BLVD., SUITE 600
Affiliation City:	LONG BEACH
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90802

TESORO (USA) 63383 (Continued) **S113098017**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Tesoro Refining & Marketing Company LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(210) 626-6153
Affiliation Type Desc:	Parent Corporation
Entity Name:	Tesoro Refining and Marketing Company LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	THRIFTY OIL COMPANY
Entity Title:	Not reported
Affiliation Address:	13116 IMPERIAL HIGHWAY
Affiliation City:	SANTA FE SPRINGS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90670
Affiliation Phone:	(562) 921-3581
Affiliation Type Desc:	UST Tank Operator
Entity Name:	R&M PACIFIC RIM INC (SEUNG KIM)
Entity Title:	Not reported
Affiliation Address:	18520 BROOKHURST ST
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(562) 402-8080
Affiliation Type Desc:	Document Preparer
Entity Name:	BELSHIRE ENVIRONMENTAL SERVICES, INC.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

E25 **THRIFTY OIL #383** **LUST** **S103950790**
NE **18520 BROOKHURST ST** **CHMIRS** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708** **HAZNET**
0.140 mi. **CERS**
741 ft. **Site 4 of 12 in cluster E**

Relative:
Higher

Actual:
15 ft.

LUST:

Lead Agency:	ORANGE COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900650
Global Id:	T0605900650
Latitude:	33.6934045
Longitude:	-117.954263
Status:	Completed - Case Closed
Status Date:	08/14/2013
Case Worker:	SR
RB Case Number:	083000824T
Local Agency:	ORANGE COUNTY LOP
File Location:	Local Agency Warehouse
Local Case Number:	87UT050
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline, MTBE / TBA / Other Fuel Oxygenates
Site History:	Please refer to recent Site Documents or Monitoring Reports in GeoTracker for site history. Orange County is not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants for the responsible party.

LUST:

Global Id:	T0605900650
Contact Type:	Local Agency Caseworker
Contact Name:	SHYAMALA RAJAGOPAL
Organization Name:	ORANGE COUNTY LOP
Address:	1241 E. DYER ROAD SUITE 120
City:	SANTA ANA
Email:	srajagopal@ochca.com
Phone Number:	7144336262

Global Id:	T0605900650
Contact Type:	Regional Board Caseworker
Contact Name:	VALERIE JAHN-BULL
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	valerie.jahn-bull@waterboards.ca.gov
Phone Number:	9517824903

LUST:

Global Id:	T0605900650
Action Type:	RESPONSE
Date:	04/18/2012
Action:	Clean Up Fund - 5-Year Review Summary

Global Id:	T0605900650
Action Type:	RESPONSE
Date:	06/21/2013
Action:	Request for Closure - Regulator Responded

Global Id:	T0605900650
Action Type:	ENFORCEMENT

THRIFTY OIL #383 (Continued) **S103950790**

Date: 10/07/2004
Action: Staff Letter

Global Id: T0605900650
Action Type: Other
Date: 03/04/1987
Action: Leak Reported

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 03/26/2009
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 04/28/2009
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 07/02/2009
Action: Staff Letter

Global Id: T0605900650
Action Type: REMEDIATION
Date: 06/15/1987
Action: Free Product Removal

Global Id: T0605900650
Action Type: REMEDIATION
Date: 06/15/1987
Action: Excavation

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 08/09/2013
Action: File Review - Closure

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 05/24/2011
Action: File review

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 02/17/2011
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 11/29/2012
Action: File review

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 03/26/2013
Action: State Water Board Closure Order

THRIFTY OIL #383 (Continued) **S103950790**

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 07/12/2013
Action: State Water Board Closure Order

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 06/28/2013
Action: File review

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 08/14/2013
Action: File Review - Closure

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 09/28/2012
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 03/26/2013
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 06/28/2013
Action: Email Correspondence

Global Id: T0605900650
Action Type: Other
Date: 03/04/1987
Action: Leak Discovery

Global Id: T0605900650
Action Type: REMEDIATION
Date: 01/16/2001
Action: Other (Use Description Field)

Global Id: T0605900650
Action Type: REMEDIATION
Date: 02/01/2003
Action: Excavation

Global Id: T0605900650
Action Type: REMEDIATION
Date: 04/07/2009
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0605900650
Action Type: RESPONSE
Date: 05/05/2010
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0605900650
Action Type: ENFORCEMENT

THRIFTY OIL #383 (Continued) **S103950790**

Date: 02/03/1997
Action: * Historical Enforcement

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 04/12/2005
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 11/01/2005
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 12/28/2004
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 05/01/2008
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 04/03/2008
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 04/04/2007
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 04/09/2007
Action: Staff Letter

Global Id: T0605900650
Action Type: ENFORCEMENT
Date: 08/20/2007
Action: Staff Letter

LUST:
Global Id: T0605900650
Status: Completed - Case Closed
Status Date: 08/14/2013

Global Id: T0605900650
Status: Open - Case Begin Date
Status Date: 03/04/1987

Global Id: T0605900650
Status: Open - Eligible for Closure
Status Date: 03/25/2013

Global Id: T0605900650

THRIFTY OIL #383 (Continued) **S103950790**

Status: Open - Remediation
Status Date: 12/27/2000

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 87UT050
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 08/14/2013
Record ID: RO0002022

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Remedial action (cleanup) Underway
Case Number:	083000824T
Local Case Num:	87UT050
Case Type:	Other ground water affected
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	LFOR
Funding:	Not reported
How Discovered:	Tank Test
How Stopped:	Close Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605900650
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	3/4/1987
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	12/27/2000
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	=
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.6934045
Longitude:	-117.954263
MTBE Date:	3/3/2003
Max MTBE GW:	1800
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1

THRIFTY OIL #383 (Continued) **S103950790**

MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	VJJ
Staff Initials:	JK
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

CHMIRS:

OES Incident Number:	15-0545
OES notification:	01/28/2015
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Service Station
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	PETROLEUM
Measure:	Gal(s)
Other:	Not reported
Date/Time:	900
Year:	2015

THRIFTY OIL #383 (Continued) **S103950790**

Agency:	Tesoro Refining and Marketing Co LLC
Incident Date:	01/28/2015
Admin Agency:	Orange County Emergency Management Division
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Gasoline
Quantity Released:	0.5
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	RP states that due to a pump nozzle malfunction caused the release. The release entered a sump drain that has an outlet to the street. Cleanup has been completes by a third party contract with 100% recovery of the release.
OES Incident Number:	15-0547
OES notification:	01/28/2015
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported

THRIFTY OIL #383 (Continued) **S103950790**

Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Merchant/Business
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	PETROLEUM
Measure:	Gal(s)
Other:	Not reported
Date/Time:	900
Year:	2015
Agency:	NRC
Incident Date:	01/28/2015
Admin Agency:	Orange County Emergency Management Division
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Gasoline
Quantity Released:	0.5
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	Per NRC: GASOLINE DISCHARGED FROM A FAULTY NOZZLE. ABSORBENTS WERE APPLIED AND 100% WAS RECOVERED.

HAZNET:

Site Name:	TESORO USA 63383
Year:	2017
GEPAID:	CAL000373929
Contact:	BRENDA RAMIREZ
Telephone:	2106265153
Mailing Name:	Not reported
Mailing Address:	19100 RIDGEWOOD PKWY
Mailing City,St,Zip:	SAN ANTONIO, TX 782590000
Gen County:	Orange
TSD EPA ID:	NVT330010000

THRIFTY OIL #383 (Continued) **S103950790**

TSD County: 99
Tons: 0.13
CA Waste Code: 352-Other organic solids
Method: H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Orange

Site Name: TESORO USA 63383
Year: 2017
GEPAID: CAL000373929
Contact: BRENDA RAMIREZ
Telephone: 2106265153
Mailing Name: Not reported
Mailing Address: 19100 RIDGEWOOD PKWY
Mailing City,St,Zip: SAN ANTONIO, TX 782590000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 0.483
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Orange

Site Name: TESORO USA 63383
Year: 2016
GEPAID: CAL000373929
Contact: JAMES BECK
Telephone: 5624956814
Mailing Name: Not reported
Mailing Address: 19100 RIDGEWOOD PKWY
Mailing City,St,Zip: SAN ANTONIO, TX 782590000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 0.063
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Orange

Site Name: TESORO USA 63383
Year: 2016
GEPAID: CAL000373929
Contact: JAMES BECK
Telephone: 5624956814
Mailing Name: Not reported
Mailing Address: 19100 RIDGEWOOD PKWY
Mailing City,St,Zip: SAN ANTONIO, TX 782590000
Gen County: Orange
TSD EPA ID: NVT330010000
TSD County: 99
Tons: 0.08
CA Waste Code: 352-Other organic solids
Method: H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Orange

THRIFTY OIL #383 (Continued) **S103950790**

Site Name:	TESORO USA 63383
Year:	2015
GEPAID:	CAL000373929
Contact:	ROSIE RANGEL
Telephone:	2106266564
Mailing Name:	Not reported
Mailing Address:	19100 RIDGEWOOD PKWY
Mailing City,St,Zip:	SAN ANTONIO, TX 782590000
Gen County:	Orange
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Tons:	0.0084
CA Waste Code:	134-Aqueous solution with total organic residues less than 10 percent
Method:	H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Orange

Click this hyperlink while viewing on your computer to access
6 additional CA_HAZNET: record(s) in the EDR Site Report.

CERS TANKS:

Site ID:	251257
CERS ID:	T0605900650
Site Name:	THRIFTY OIL #383
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	VALERIE JAHN-BULL - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9517824903

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	SHYAMALA RAJAGOPAL - ORANGE COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1241 E. DYER ROAD SUITE 120
Affiliation City:	SANTA ANA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7144336262

E26 **THRIFTY OIL STN #383** **UST** **U003913338**
NE **18520 BROOKHURST ST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.140 mi.
741 ft. **Site 5 of 12 in cluster E**

Relative:
Higher

Actual:
15 ft.

UST:
Facility ID: 5092
Permitting Agency: ORANGE COUNTY
Latitude: 33.6949859
Longitude: -117.9526541

Facility ID: FA0059621
Permitting Agency: Orange County Environmental Health
Latitude: 33.69215
Longitude: -117.95402

ORANGE CO. UST:
Facility ID: FA0059621

E27 **THRIFTY OIL STN #383** **SWEEPS UST** **S101631329**
NE **18520 BROOKHURST AVE** **CA FID UST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708** **HIST CORTESE**
0.140 mi.
741 ft. **Site 6 of 12 in cluster E**

Relative:
Higher

Actual:
15 ft.

SWEEPS UST:
Status: Active
Comp Number: 5092
Number: 9
Board Of Equalization: 44-016333
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-005092-000001
Tank Status: A
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 4

Status: Active
Comp Number: 5092
Number: 9
Board Of Equalization: 44-016333
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-005092-000002
Tank Status: A
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: OTHER

THRIFTY OIL STN #383 (Continued) **S101631329**

Number Of Tanks: Not reported

Status: Active
Comp Number: 5092
Number: 9
Board Of Equalization: 44-016333
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-005092-000003
Tank Status: A
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 5092
Number: 9
Board Of Equalization: 44-016333
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-005092-000004
Tank Status: A
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 30000776
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7149629232
Mail To: Not reported
Mailing Address: 10000 LAKEWOOD BLVD ATTN:
Mailing Address 2: Not reported
Mailing City,St,Zip: FOUNTAIN VALLEY 92708
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HIST CORTESE:

THRIFTY OIL STN #383 (Continued) **S101631329**

Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083000824T

E28 **THRIFTY OIL COMPANY** **UST** **U004271352**
NE **18520 BROOKHURST STREET** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA**
0.140 mi.
741 ft. **Site 7 of 12 in cluster E**

Relative: **Higher**
Actual: **15 ft.**

UST CLOSURE:
Claim Number: Claim No. 13541
Type: Closure Denials and Approved Orders
Deadline Date: 2013-03-15 00:00:00
Documents: Notice, Draft Exec Order | Final Closure Review Summary
Comments: No comments received
Comments URL: Not reported
Response: Not reported
Response URL: Not reported
Comments2: Not reported
Comments2 URL: Not reported
Response2: Not reported
Response2 URL: Not reported
Closure: WQO 2013-0005-UST (03/25/2013)
Closure URL: https://pubapps.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2013/wqo2013_0005ust.pdf
Uniform: x
Uniform URL: Not reported

F29 **NORGETOWN CLEANERS** **DRYCLEANERS** **1000234368**
SE **18888 BROOKHURST ST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.162 mi.
853 ft. **Site 1 of 2 in cluster F**

Relative: **Higher**
Actual: **17 ft.**

DRYCLEANERS:
EPA Id: CAD030576797
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 04/10/1987
Facility Active: No
Inactive Date: 04/16/2003
Facility Addr2: Not reported
Owner Name: JOO CHAN JI
Owner Address: 18888 BROOKHURST ST
Owner Address 2: Not reported
Owner Telephone: 7149683556
Contact Name: JOO CHAN JI
Contact Address: 18888 BROOKHURST ST
Contact Address 2: Not reported
Contact Telephone: 7149683556
Mailing Name: Not reported
Mailing Address 1: 18888 BROOKHURST ST

NORGETOWN CLEANERS (Continued) **1000234368**

Mailing Address 2: Not reported
Mailing City: FOUNTAIN VALLEY
Mailing State: CA
Mailing Zip: 927087304
Owner Fax: Not reported
Region Code: 4

EPA Id: CAL000271865
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 06/17/2003
Facility Active: No
Inactive Date: 06/30/2013
Facility Addr2: Not reported
Owner Name: JOO CHAN JI
Owner Address: 18888 BROOKHURST ST
Owner Address 2: Not reported
Owner Telephone: 7149683556
Contact Name: JOO CHAN JI
Contact Address: 18888 BROOKHURST ST
Contact Address 2: Not reported
Contact Telephone: 7149683556
Mailing Name: Not reported
Mailing Address 1: 18888 BROOKHURST ST
Mailing Address 2: Not reported
Mailing City: FOUNTAIN VALLEY
Mailing State: CA
Mailing Zip: 927087304
Owner Fax: 0000000000
Region Code: 4

DRYCLEAN SOUTH COAST:
Facility ID: 22500
Application Number: 08040A
Permit Number: S06432
Status: S
Representative Name: Not reported
Representative Telephone: Not reported
Permit Status: INACTIVE
BCAT Number: 000234
BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 0
UTM North: 0

Facility ID: 22500
Application Number: 157725
Permit Number: M58315
Status: S
Representative Name: Not reported
Representative Telephone: Not reported
Permit Status: INACT_NR
BCAT Number: 000234
BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE

NORGETOWN CLEANERS (Continued) **1000234368**

CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 0
UTM North: 0

Facility ID: 84260
Application Number: 247904
Permit Number: D42595
Status: S
Representative Name: CHUN SOO PYO
Representative Telephone: 714 9683556
Permit Status: INACTIVE
BCAT Number: 000234
BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 411.57000732
UTM North: 3727.8291016

Facility ID: 84260
Application Number: 363931
Permit Number: F25556
Status: S
Representative Name: CHUN SOO PYO
Representative Telephone: 714 9683556
Permit Status: INACTIVE
BCAT Number: 000601
BCAT Description: DRY CLEANING, DRY-TO-DRY NON-VENT, PERC
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 411.57000732
UTM North: 3727.8291016

Facility ID: 132069
Application Number: 466477
Permit Number: F88786
Status: A
Representative Name: JOO CHAN JI
Representative Telephone: 949 5861566
Permit Status: INACT_NR
BCAT Number: 000233
BCAT Description: DRY CLEANING EQUIP PETROLEUM SOLVENT
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 411.57000732
UTM North: 3727.8291016

Facility ID: 132069
Application Number: 399789
Permit Number: F51290
Status: A
Representative Name: JOO CHAN JI
Representative Telephone: 949 5861566
Permit Status: INACTIVE
BCAT Number: 000601
BCAT Description: DRY CLEANING, DRY-TO-DRY NON-VENT, PERC
CCAT Number: Not reported

NORGETOWN CLEANERS (Continued) **1000234368**

CCAT Description: Not reported
UTM East: 411.57000732
UTM North: 3727.8291016

F30 **FORMER RED DOOR CLEANERS** **ENVIROSTOR** **S113127096**
SE **18888 BROOKHURST STREET** **VCP** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708** **HAZNET**
0.162 mi.
853 ft. **Site 2 of 2 in cluster F**

Relative: Higher

Actual: 17 ft.

ENVIROSTOR:
Facility ID: 60002715
Status: Active
Status Date: 08/28/2018
Site Code: 401842
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 7
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Angela Turner
Supervisor: Emad Yemut
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: , 72
Senate: , 34
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 33.68851
Longitude: -117.9538
APN: 156-013-26
Past Use: DRY CLEANING
Potential COC: Tetrachloroethylene (PCE Trichloroethylene (TCE Vinyl chloride 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans
Confirmed COC: Tetrachloroethylene (PCE Trichloroethylene (TCE Vinyl chloride 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans
Potential Description: OTH, SV
Alias Name: 156-013-26
Alias Type: APN
Alias Name: 401842
Alias Type: Project Code (Site Code)
Alias Name: 60002715
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 10/23/2018
Comments: VCA Executed. Advance Payment of $16,015 received by DTSC accounting office.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/26/2018

FORMER RED DOOR CLEANERS (Continued) **S113127096**

Comments: Documents describing historical work reviewed by technical staff, no comments made.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 60002715
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 7
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Angela Turner
Supervisor: Emad Yemut
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 401842
Assembly: , 72
Senate: , 34
Special Programs Code: Voluntary Cleanup Program
Status: Active
Status Date: 08/28/2018
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 33.68851 / -117.9538
APN: 156-013-26
Past Use: DRY CLEANING
Potential COC: 30022, 30027, 30028, 30195, 30196
Confirmed COC: 30022,30027,30028,30195,30196
Potential Description: OTH, SV
Alias Name: 156-013-26
Alias Type: APN
Alias Name: 401842
Alias Type: Project Code (Site Code)
Alias Name: 60002715
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 10/23/2018
Comments: VCA Executed. Advance Payment of $16,015 received by DTSC accounting office.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

FORMER RED DOOR CLEANERS (Continued) **S113127096**

Completed Document Type: Other Report
Completed Date: 11/26/2018
Comments: Documents describing historical work reviewed by technical staff, no comments made.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HAZNET:
Site Name: NORGETOWN CLEANERS
Year: 2007
GEPAID: CAL000271865
Contact: JOO CHAN JI
Telephone: 7149683556
Mailing Name: Not reported
Mailing Address: 18888 BROOKHURST ST
Mailing City,St,Zip: FOUNTAIN VALLEY, CA 927087304
Gen County: Orange
TSD EPA ID: NVR000076158
TSD County: 99
Tons: 0.1251
CA Waste Code: 211-Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Method: H020-Solvents Recovery
Facility County: Orange

Site Name: NORGETOWN CLEANERS
Year: 2007
GEPAID: CAL000271865
Contact: JOO CHAN JI
Telephone: 7149683556
Mailing Name: Not reported
Mailing Address: 18888 BROOKHURST ST
Mailing City,St,Zip: FOUNTAIN VALLEY, CA 927087304
Gen County: Orange
TSD EPA ID: NVR000076158
TSD County: 99
Tons: Not reported
CA Waste Code: 213-Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Method: H020-Solvents Recovery
Facility County: Orange

Site Name: NORGETOWN CLEANERS
Year: 2007
GEPAID: CAL000271865
Contact: JOO CHAN JI
Telephone: 7149683556
Mailing Name: Not reported
Mailing Address: 18888 BROOKHURST ST
Mailing City,St,Zip: FOUNTAIN VALLEY, CA 927087304
Gen County: Orange

FORMER RED DOOR CLEANERS (Continued) **S113127096**

TSD EPA ID: NVR000076158
TSD County: 99
Tons: Not reported
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: H020-Solvents Recovery
Facility County: Orange

Site Name: NORGETOWN CLEANERS
Year: 2006
GEPAID: CAL000271865
Contact: JOO CHAN JI
Telephone: 7149683556
Mailing Name: Not reported
Mailing Address: 18888 BROOKHURST ST
Mailing City,St,Zip: FOUNTAIN VALLEY, CA 927087304
Gen County: Orange
TSD EPA ID: NVR000076158
TSD County: 99
Tons: 0.1251
CA Waste Code: 211-Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Method: -
Facility County: Orange

Site Name: NORGETOWN CLEANERS
Year: 2006
GEPAID: CAL000271865
Contact: JOO CHAN JI
Telephone: 7149683556
Mailing Name: Not reported
Mailing Address: 18888 BROOKHURST ST
Mailing City,St,Zip: FOUNTAIN VALLEY, CA 927087304
Gen County: Orange
TSD EPA ID: NVR000076158
TSD County: 99
Tons: Not reported
CA Waste Code: -
Method: H020-Solvents Recovery
Facility County: Orange

Click this hyperlink while viewing on your computer to access
5 additional CA_HAZNET: record(s) in the EDR Site Report.

E31 **MK OIL INC** **LUST** **U003432745**
NE **18480 BROOKHURST ST** **UST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708** **SWEEPS UST**
0.173 mi. **Orange Co. Industrial Site**
915 ft. **Site 8 of 12 in cluster E** **Cortese**
CERS

Relative:
Higher

Actual:
15 ft.

LUST:
Lead Agency: ORANGE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900032
Global Id: T0605900032
Latitude: 33.694347091
Longitude: -117.953842273
Status: Open - Remediation
Status Date: 04/05/2002

MK OIL INC (Continued) **U003432745**

Case Worker:	SR
RB Case Number:	083000038T
Local Agency:	ORANGE COUNTY LOP
File Location:	Local Agency
Local Case Number:	85UT085
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Please refer to recent Site Documents or Monitoring Reports in GeoTracker for site history. Orange County is not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants for the responsible party.

LUST:

Global Id:	T0605900032
Contact Type:	Local Agency Caseworker
Contact Name:	SHYAMALA RAJAGOPAL
Organization Name:	ORANGE COUNTY LOP
Address:	1241 E. DYER ROAD SUITE 120
City:	SANTA ANA
Email:	srajagopal@ochca.com
Phone Number:	7144336262

Global Id:	T0605900032
Contact Type:	Regional Board Caseworker
Contact Name:	VALERIE JAHN-BULL
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	valerie.jahn-bull@waterboards.ca.gov
Phone Number:	9517824903

LUST:

Global Id:	T0605900032
Action Type:	ENFORCEMENT
Date:	07/12/2016
Action:	Staff Letter

Global Id:	T0605900032
Action Type:	ENFORCEMENT
Date:	09/21/2015
Action:	File review

Global Id:	T0605900032
Action Type:	Other
Date:	09/19/1985
Action:	Leak Reported

Global Id:	T0605900032
Action Type:	ENFORCEMENT
Date:	07/01/2009
Action:	Staff Letter

Global Id:	T0605900032
Action Type:	ENFORCEMENT
Date:	12/03/2015
Action:	File review

MK OIL INC (Continued) **U003432745**

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 03/29/2016
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 03/30/2016
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 12/04/2015
Action: File review

Global Id: T0605900032
Action Type: REMEDIATION
Date: 09/01/1985
Action: Excavation

Global Id: T0605900032
Action Type: REMEDIATION
Date: 03/17/2001
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 03/08/2011
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 05/20/2013
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 07/16/2013
Action: Notice of Responsibility

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 11/16/2012
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 06/10/2013
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 01/17/2013
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT

MK OIL INC (Continued) **U003432745**

Date: 10/22/2013
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 10/21/2013
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 04/03/2017
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 11/29/2017
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 11/26/2013
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 12/20/2013
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 12/24/2013
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 04/24/2015
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 06/23/2015
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 05/06/2015
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 04/24/2014
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 11/12/2014
Action: File review

MK OIL INC (Continued) **U003432745**

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 08/09/2018
Action: Staff Letter

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 08/08/2018
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 08/10/2018
Action: Staff Letter

Global Id: T0605900032
Action Type: Other
Date: 09/19/1985
Action: Leak Discovery

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 10/27/2014
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 06/06/2014
Action: File review

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 04/12/1999
Action: * Historical Enforcement

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 02/08/2005
Action: Staff Letter

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 10/21/2003
Action: Staff Letter

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 12/17/2003
Action: Staff Letter

Global Id: T0605900032
Action Type: ENFORCEMENT
Date: 10/07/2004
Action: Staff Letter

LUST:
Global Id: T0605900032

MK OIL INC (Continued) **U003432745**

Status: Open - Case Begin Date
Status Date: 09/19/1985

Global Id: T0605900032
Status: Open - Remediation
Status Date: 04/05/2002

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 85UT085
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: Not reported
Record ID: RO0002796

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Remedial action (cleanup) Underway
Case Number:	083000038T
Local Case Num:	85UT085
Case Type:	Other ground water affected
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	LFOR
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	New Tank
Leak Cause:	Unknown
Leak Source:	Tank
Global ID:	T0605900032
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	9/19/1985
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	4/5/2002
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	=
Soil Qualifies:	=
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.6943505
Longitude:	-117.95424
MTBE Date:	9/19/2001

MK OIL INC (Continued) **U003432745**

Max MTBE GW:	40000
MTBE Concentration:	0
Max MTBE Soil:	120
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	VJJ
Staff Initials:	JK
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

UST:

Facility ID:	FA0062548
Permitting Agency:	Orange County Environmental Health
Latitude:	33.69445
Longitude:	-117.95374

Facility ID:	2373
Permitting Agency:	ORANGE COUNTY
Latitude:	33.6957667
Longitude:	-117.9523263

ORANGE CO. UST:

Facility ID: FA0062548

SWEEPS UST:

Status:	Not reported
Comp Number:	2373
Number:	Not reported
Board Of Equalization:	44-000506
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002373-000001
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	1

Status:	Active
Comp Number:	2373
Number:	9
Board Of Equalization:	44-000506
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88

MK OIL INC (Continued) **U003432745**

Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002373-000003
Tank Status:	A
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	4

Status:	Active
Comp Number:	2373
Number:	9
Board Of Equalization:	44-000506
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002373-000004
Tank Status:	A
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	2373
Number:	9
Board Of Equalization:	44-000506
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002373-000005
Tank Status:	A
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	2373
Number:	9
Board Of Equalization:	44-000506
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002373-000009
Tank Status:	A
Capacity:	550
Active Date:	Not reported
Tank Use:	PETROLEUM

MK OIL INC (Continued) **U003432745**

STG: P
Content: Not reported
Number Of Tanks: Not reported

Orange Co. Industrial Site:
Case ID: 93IC014
Record ID: RO0000426
Current Status: CLOSED 8/4/1994
Closure Type: Closure certification issued
Released Chemical: WASTE (OR SLOP) OIL

CORTESE:
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0605900032
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: OPEN - REMEDIATION
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

CERS TANKS:
Site ID: 197017
CERS ID: T0605900032
Site Name: ARCO #1912
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: VALERIE JAHN-BULL - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517824903

Affiliation Type Desc: Local Agency Caseworker
Entity Name: DAN WEERASEKERA - ORANGE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1241 E. Dyer Rd. Suite 120
Affiliation City: SANTA ANA

MK OIL INC (Continued) **U003432745**

Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7144336255

E32 **ARCO #1912** **CA FID UST** **S101631320**
NE **18480** **HIST CORTESE** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.173 mi.
915 ft. **Site 9 of 12 in cluster E**

Relative: **Higher**
Actual: **15 ft.**

CA FID UST:
Facility ID: 30000482
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7149686050
Mail To: Not reported
Mailing Address: 17315 STUDEBAKER RD
Mailing Address 2: Not reported
Mailing City,St,Zip: FOUNTAIN VALLEY 92708
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083000038T

E33 **ROBERT STRAZZ** **HIST UST** **U001578379**
NE **18480 BROOKHURST ST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.173 mi.
915 ft. **Site 10 of 12 in cluster E**

Relative: **Higher**
Actual: **15 ft.**

HIST UST:
File Number: 0002E510
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002E510.pdf
Region: STATE
Facility ID: 00000026657
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 0000000000
Owner Name: ARCO PETROLEUM PRODUCTS CO.
Owner Address: 515 SOUTH FLOWER STREET
Owner City,St,Zip: LOS ANGELES, CA 90071
Total Tanks: 0005

ROBERT STRAZZ (Continued) **U001578379**

Tank Num:	001
Container Num:	0000000001
Year Installed:	1966
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	0000240
Leak Detection:	Stock Inventor, 10

Tank Num:	002
Container Num:	0000000002
Year Installed:	1966
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	0000240
Leak Detection:	Stock Inventor, 10

Tank Num:	003
Container Num:	0000000003
Year Installed:	1966
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	0000240
Leak Detection:	Stock Inventor, 10

Tank Num:	004
Container Num:	0000000004
Year Installed:	1979
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10

Tank Num:	005
Container Num:	0000000005
Year Installed:	1966
Tank Capacity:	00000280
Tank Used for:	PRODUCT
Type of Fuel:	WASTE OIL
Container Construction Thickness:	0000093
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

E34 **BP WEST COAST PRODUCTS LLC 01912** **CERS HAZ WASTE** **S113117445**
NE **18480 BROOKHURST ST** **CERS TANKS** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708** **HAZNET**
0.173 mi. **CERS**
915 ft. **Site 11 of 12 in cluster E**

Relative: CERS HAZ WASTE:
Higher

Site ID:	135730
CERS ID:	10402924
CERS Description:	Hazardous Waste Generator

Actual:
15 ft.

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Violations:

Site ID:	135730
Site Name:	MK OIL INC., DBA ARCO 83513
Violation Date:	05-17-2016
Citation:	HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes:	Returned to compliance on 07/21/2016.
Violation Division:	Fountain Valley Fire
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	135730
Site Name:	MK OIL INC., DBA ARCO 83513
Violation Date:	09-18-2017
Citation:	HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description:	Failure to obtain a valid permit to operate from the CUPA.
Violation Notes:	Returned to compliance on 03/26/2018. The UST permit to operate was not renewed by this Agency on July 1, 2017 due to noncompliance with UST laws and regulations. The facility owner and operator are currently operating the UST(s) without a permit. Please correct all violations listed on this report immediately. A permit will be issued when the site is in compliance and has paid all applicable UST fees.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	135730
Site Name:	MK OIL INC., DBA ARCO 83513
Violation Date:	05-18-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/13/2017. remodel added CO2
Violation Division:	Fountain Valley Fire
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	135730
Site Name:	MK OIL INC., DBA ARCO 83513
Violation Date:	06-09-2017
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the UST.
Violation Notes:	Returned to compliance on 03/26/2018. Secondary containment testing test result from 10/7/16 was not available for review on site. Please submit a copy to this Agency and maintain a copy on site within 30

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

days of this report.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 06-13-2016
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 09/09/2016. Certification of Financial Responsibility form has not been signed by a witness or notary. Please submit a complete form in CERS.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 06-09-2017
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Response Plan available on site.
Violation Notes: Returned to compliance on 03/26/2018. The UST response plan was not available for review on site during the inspection. Facility must obtain a copy and maintain/post it on site within 30 days. A follow-up inspection will be conducted within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 07-19-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 08/17/2017. needs to add CO2 on Map
Violation Division: Fountain Valley Fire
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 03-22-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following violations were noted on an inspection report dated 6/9/2017. The violations have not been corrected as of this date (3/22/2018) and a current UST Operating Permit was not issued to this facility because of the outstanding violations. Further enforcement (including fines) may be forthcoming. Please contact me ASAP to provide an update on the status of the violations listed in this

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

report. OUTSTANDING VIOLATIONS - 3/22/18 I673 - The UST response plan was not available for review on site during the inspection. Facility must obtain a copy and maintain/post it on site within 30 days. A follow-up inspection will be conducted within 30 days. I319 - Secondary containment testing test result from 10/7/16 was not available for review on site. Please submit a copy to this Agency and maintain a copy on site within 30 days of this report.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-08-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: An on-site inspection was conducted this date to witness the annual monitoring system certification. Peyman Nabisi (Pacific Nozzle) conducted the monitoring system certification and provided current Veeder-Root, VMI, and ICC certifications. This facility contains: 4 - USTs (87, 87 syphon, 91, waste oil) Monitor system is a Veeder-Root monitor panel and reads all functions normal. Overfill protection provided by audible/visual alarms. Sensors were observed positioned so as to initiate alarms at the earliest point possible. Sensors were re-positioned in a true vertical position upon installation after testing. Alarm history and setup tape reviewed while on site. NOTE: Sensors L4 and L8 were renamed this date to correctly reflect their positions in the tank system (7/8 dispenser and 87 siphon, respectively) The following were tested: - Sensors, initiated positive shutdown to the turbines when tested in water - ?Fail Safe? and ?Positive Shutdown? - Overfill [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-09-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received call from Tony Mansour regarding site compliance. No revisions have been submitted to CERS. Tony said he did not get an email from CERS. Checked info, Tony had a typo in his email address in CERS. Received email from Salah Mazloum regarding theother violations. Received email with various documents. Will review them onsite during the annual inspection on Friday (scan copy difficult to read).
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-09-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENT: On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Salah E. Masloum, Owner. Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed and properly labeled. Manifests were available and reviewed. Employees are reported to be

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

trained. Emergency plan is posted at the Veeder-Root panel behind the casher station. No hazardous waste or universal waste observed in the dumpster/enclosure area. No hazardous waste violations were observed this date.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-23-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Monitor cert notification
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-01-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Inspection rescheduling due to regularly scheduled day off falling on 6/9. Confirmation from the tester is pending.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-10-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST documents declined in CERS: The waste oil tank was reportedly installed at the same time as the three fuel tanks but the manufacturer is listed as unknown. Please review the tank records, secondary containment test reports, and appearance of the tank top to determine if it is the same manufacturer as the other tanks and then update the information in CERS. Overfill prevention is likely exempt. Please verify the overfill prevention method. Corrosion protection must include "isolation" for the tanks at this location. Waste oil monitoring plan: the waste oil tank does not have an electronic line leak detector installed, and no UDC monitoring is being conducted. Please remove the information from these sections of the plan. The state form for the Certification of Financial Responsibility must be signed by the witness/notary. Please have the owner/operator sign the leak response plan.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-10-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector Comments: On site to witness monitoring system certification testing activities and to conduct routine UST inspection. Waste oil tank’s annular and sump sensors alarmed properly, both visual and audible, when submerged in water. Gasoline tanks’ annular and sump

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

sensors alarmed properly (visual and audible) and shut down respective turbine when submerged in water. UDC sensors alarmed properly (visual and audible) and shut down turbines when submerged in water. Fail-safe, sensor out and emergency shut off were tested and passed. Line leak detectors were tested and passed. ATGs were tested and passed test with the enunciator functioning properly. Spill buckets were tested visually without any changes in water level. Valid permit, designated operator documentation, monthly inspection reports, monitoring plan, response plan, employee training records, daily visual UST monitoring logs, tank pages, certification of financial responsibility, [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-18-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS 2016 - Not Accepted - incorrect EPA ID - listed ARCO/BP Petroleums ID
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-23-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST submittal declined in CERS. The waste oil tank was reportedly installed at the same time as the three fuel tanks but the manufacturer is listed as unknown. Please review the tank records, secondary containment test reports, and appearance of the tank top to determine if it is the same manufacturer as the other tanks and then update the information in CERS. Overfill prevention is likely exempt. Please verify the overfill prevention method. Corrosion protection must include "isolation" for the tanks at this location.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-26-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Declined UST in CERS database. Discussed issues with operator, Salah.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-04-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Accepted UST documents in CERS- - CFR is dated 1/15/16 - DO is TM Environmental Services
Eval Division: Orange County Environmental Health

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-01-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification for 6-9
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-13-2016
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received the following documents: - Monitoring system certification dated 6/10/16 - Spill bucket test report dated 6/10/16
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-13-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS Received the Annual Monitoring System Certification Test Result, dated 6/9/17. The following tests PASSED: - Monitoring System Certification - Line Leak Detector - Spill Bucket Test
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST permiting documents declined in CERS due to: CFR State form is not legible. Please re-scan the document and upload.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-02-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-18-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following violations were cited on a previous inspection report

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

dated 6/9/17 and remain outstanding: I319- Secondary containment testing test result from 10/7/16 was not available for review on site. I673- The UST response plan was not available for review on site during the inspection. A copy of this report will be sent to tmansourenv@gmail.com

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-07-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Onsite during SB989 Secondary Containment Testing. Peyman Nabisi of Pacific Nozzles & Petroleum Services provided the following valid certifications: ICC, Incon, Veeder-Root.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-12-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and accepted CERS ID 10402924Underground Storage Tanks submittal dated 9/8/16.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-09-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENT: On site for routine UST inspection, monitoring system certification, and spill bucket testing. Testing of monitoring equipment was performed by Fernando Martinez on behalf of Pacific Nozzle and Petroleum Services; Tester provided the following verification and are all current: ICC, Veeder Root, and VMI. The facility has four double-walled underground storage tanks (87S, 87N, 91, and waste oil- not in use). The monitor was operational for audible and visual alarms. Leak sensors were located at the lowest point of the tank. Leak sensors for the annular spaces (VR-409), fill sumps (VR-208), turbine sumps (VR-208), and UDCs (VR-208) were tested and determined to be operational. Sensor out and fail safe, were tested and passed. ATGs are used for overfill prevention; tested and passed. The spill buckets were tested; bucket test passed. ELLD were tested and passed. This inspector did not witness all testing performed at this site. The following [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-15-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Eval Notes:	Change permit status to Do Not Issue Permit (03) per email from M. Le dated 6/13/17.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Change UST status to get a permit, per Berg.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The UST permit package has been accepted in the CERS database. Certification of Financial Responsibility is dated 6/9/15 Designated operator is Tony Mansour of TM Environmental Services. Violation (TR02) has been corrected. Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Added CO2
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-26-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received the following documents via CERS: - Monitoring system certification dated 6/16/14 - Spill bucket test report dated 6/16/14 - Designated Operator Owner Statement indicating DO is Tony Mansour - Certification of Financial Responsibility dated 1/16/15- form is incomplete Violation (I205) has been corrected. The following violations were cited on previous inspection reports and remain outstanding: (TR02) Failure to submit UST documents electronically: not accepted in CERS (TS05) Failure to maintain maintenance records (TS11) DO monthly records are incomplete/inaccurate (TS12) DO training records are not available for review Please submit the required records/documents to this Agency and/or CERS immediately.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Eval Date:	03-12-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review. ACCEPTED. Updated CFO letter provided.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-26-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	An off-site, follow-up inspection was conducted this date (3/26/18). The items noted below are in reference to an onsite inspection of your facility conducted on 6/9/17. OUTSTANDING VIOLATIONS ? 3/26/18 NONE CORRECTED VIOLATIONS ? 3/26/18 I319 - The operator has submitted a copy of their Secondary Containment Test Report and keeps a copy onsite and available for review I673 - The operator has submitted a copy of their UST Reponse Plan and keeps a copy onsite and available for staff UST requirements met, and operating permit to be issued.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-11-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-18-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	remodel need to add 300 lbs CO2
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-21-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Change status to not receive a permit, per Berg.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-09-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-12-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine UST inspection, monitoring system certification, and spill bucket testing. Consent to enter and inspect was given by Salah Mazloum. The facility has four double-walled tanks (87M, 87A, 91, WO) monitored by a Veeder Root TLS350 system. The monitor is operational for audible and visual alarms. The in-tank probes are used for overfill prevention. Positive shutdown and fail safe programming were verified. The sensors in the fuel tank annulars, turbine sumps, fill sumps, and UDCs all shutdown the turbines when submerged in fuel. The two electronic leak detectors were tested with a simulated 3 gph leak and were determined to be operational. The in-tank probes were positioned at 90% tank capacity, triggering an external audible/visual alarm for all three fuel tanks. The sensors in the waste oil tank annular and piping sump triggered an audible and visual alarm when submerged in fuel. Spill buckets were visually tested for 30 minutes. No indication of [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-13-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS submittal reviewed and was NOT ACCEPTED: Submittal was reviewed following on-site inspection. Please correct the following: Waste Oil Tank: Pipe Monitoring Section states that the pump automatically shut down when the leak alarm is triggered or when the tank is in fail safe. There is no pump on this tank top, please correct and re-submit. Monitoring Plan: For the Under Dispenser Containment (UDC) Monitoring Section: Under UDC Monitoring Stops Flow of Product at Dispenser- Indicate "Yes" only if flow is stopped at the individual dispensers regardless of whether or not the turbine is active (i.e. mechanical valves are closed or dispenser power is shut off). Indicate "No" if flow is not stopped at the individual dispensers (i.e. the turbine is shutdown). Please also obtain a copy of the inspection report from the owner/operator for details on other items that need to be corrected. Any questions, please feel free to contact me at minh.le@ochca.com or 714-720-1327. [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-21-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency received the monitoring system certification test report for a test conducted 6/8/18. The following components PASSED testing: - Tank Annular Sensors (4) - STP Sump Sensors (4) - Fill Sump Sensors (4) - UDC Sensors (4) - Audible/Visual Overfill Alarm - Fail

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

	Safe/Sensor Out - Spill Buckets Visual Test - Line Leak Detectors
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-19-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	needs to add CO2 on map
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-09-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has reviewed and accepted the Certification of Financial Responsibility documents in the CERS database. The form is dated 9/8/16. Violation (I583) has been corrected. Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-28-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SB 989 test notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	TONY MANSOUR
Entity Title:	Not reported
Affiliation Address:	18480 Brookhurst St
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	MK OIL INC.
Entity Title:	Not reported
Affiliation Address:	18480 Brookhurst St
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050
Affiliation Type Desc:	UST Tank Operator
Entity Name:	Salah Mazloum

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST STREET
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	Identification Signer
Entity Name:	Salah Mazloum
Entity Title:	OWNER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Salah Mazloum
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(310) 985-0699
Affiliation Type Desc:	Parent Corporation
Entity Name:	Arco # 01912
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	RASM LLC
Entity Title:	Not reported
Affiliation Address:	18480 Brookhurst St
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(310) 985-0699

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	SALAH MAZLOUM
Entity Title:	OWNER/OPERATOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 968-6050

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	SALAH MAZLOUM
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST STREET
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST ST.
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Tank Owner
Entity Name:	MK OIL INC.
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST STREET
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	Not reported
Affiliation Country:	UNITED STATES
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050

Affiliation Type Desc:	Document Preparer
Entity Name:	TONY MANSOUR, TM ENV. SVC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

CERS TANKS:

Facility Name:	MK OIL INC., DBA ARCO 83513
Site ID:	135730
CERS ID:	10402924
CERS Description:	Underground Storage Tank

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Violations:

Site ID:	135730
Site Name:	MK OIL INC., DBA ARCO 83513
Violation Date:	05-17-2016
Citation:	HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes:	Returned to compliance on 07/21/2016.
Violation Division:	Fountain Valley Fire
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	135730
Site Name:	MK OIL INC., DBA ARCO 83513
Violation Date:	09-18-2017
Citation:	HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description:	Failure to obtain a valid permit to operate from the CUPA.
Violation Notes:	Returned to compliance on 03/26/2018. The UST permit to operate was not renewed by this Agency on July 1, 2017 due to noncompliance with UST laws and regulations. The facility owner and operator are currently operating the UST(s) without a permit. Please correct all violations listed on this report immediately. A permit will be issued when the site is in compliance and has paid all applicable UST fees.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	135730
Site Name:	MK OIL INC., DBA ARCO 83513
Violation Date:	05-18-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/13/2017. remodel added CO2
Violation Division:	Fountain Valley Fire
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	135730
Site Name:	MK OIL INC., DBA ARCO 83513
Violation Date:	06-09-2017
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the UST.
Violation Notes:	Returned to compliance on 03/26/2018. Secondary containment testing test result from 10/7/16 was not available for review on site. Please submit a copy to this Agency and maintain a copy on site within 30

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

days of this report.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 06-13-2016
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 09/09/2016. Certification of Financial Responsibility form has not been signed by a witness or notary. Please submit a complete form in CERS.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 06-09-2017
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Response Plan available on site.
Violation Notes: Returned to compliance on 03/26/2018. The UST response plan was not available for review on site during the inspection. Facility must obtain a copy and maintain/post it on site within 30 days. A follow-up inspection will be conducted within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 07-19-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 08/17/2017. needs to add CO2 on Map
Violation Division: Fountain Valley Fire
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 03-22-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following violations were noted on an inspection report dated 6/9/2017. The violations have not been corrected as of this date (3/22/2018) and a current UST Operating Permit was not issued to this facility because of the outstanding violations. Further enforcement (including fines) may be forthcoming. Please contact me ASAP to provide an update on the status of the violations listed in this

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

report. OUTSTANDING VIOLATIONS - 3/22/18 I673 - The UST response plan was not available for review on site during the inspection. Facility must obtain a copy and maintain/post it on site within 30 days. A follow-up inspection will be conducted within 30 days. I319 - Secondary containment testing test result from 10/7/16 was not available for review on site. Please submit a copy to this Agency and maintain a copy on site within 30 days of this report.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-08-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: An on-site inspection was conducted this date to witness the annual monitoring system certification. Peyman Nabisi (Pacific Nozzle) conducted the monitoring system certification and provided current Veeder-Root, VMI, and ICC certifications. This facility contains: 4 - USTs (87, 87 syphon, 91, waste oil) Monitor system is a Veeder-Root monitor panel and reads all functions normal. Overfill protection provided by audible/visual alarms. Sensors were observed positioned so as to initiate alarms at the earliest point possible. Sensors were re-positioned in a true vertical position upon installation after testing. Alarm history and setup tape reviewed while on site. NOTE: Sensors L4 and L8 were renamed this date to correctly reflect their positions in the tank system (7/8 dispenser and 87 siphon, respectively) The following were tested: - Sensors, initiated positive shutdown to the turbines when tested in water - ?Fail Safe? and ?Positive Shutdown? - Overfill [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-09-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received call from Tony Mansour regarding site compliance. No revisions have been submitted to CERS. Tony said he did not get an email from CERS. Checked info, Tony had a typo in his email address in CERS. Received email from Salah Mazloum regarding theother violations. Received email with various documents. Will review them onsite during the annual inspection on Friday (scan copy difficult to read).
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-09-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENT: On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Salah E. Masloum, Owner. Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed and properly labeled. Manifests were available and reviewed. Employees are reported to be

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

trained. Emergency plan is posted at the Veeder-Root panel behind the casher station. No hazardous waste or universal waste observed in the dumpster/enclosure area. No hazardous waste violations were observed this date.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-23-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Monitor cert notification
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-01-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Inspection rescheduling due to regularly scheduled day off falling on 6/9. Confirmation from the tester is pending.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-10-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST documents declined in CERS: The waste oil tank was reportedly installed at the same time as the three fuel tanks but the manufacturer is listed as unknown. Please review the tank records, secondary containment test reports, and appearance of the tank top to determine if it is the same manufacturer as the other tanks and then update the information in CERS. Overfill prevention is likely exempt. Please verify the overfill prevention method. Corrosion protection must include "isolation" for the tanks at this location. Waste oil monitoring plan: the waste oil tank does not have an electronic line leak detector installed, and no UDC monitoring is being conducted. Please remove the information from these sections of the plan. The state form for the Certification of Financial Responsibility must be signed by the witness/notary. Please have the owner/operator sign the leak response plan.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-10-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector Comments: On site to witness monitoring system certification testing activities and to conduct routine UST inspection. Waste oil tank's annular and sump sensors alarmed properly, both visual and audible, when submerged in water. Gasoline tanks' annular and sump

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

sensors alarmed properly (visual and audible) and shut down respective turbine when submerged in water. UDC sensors alarmed properly (visual and audible) and shut down turbines when submerged in water. Fail-safe, sensor out and emergency shut off were tested and passed. Line leak detectors were tested and passed. ATGs were tested and passed test with the enunciator functioning properly. Spill buckets were tested visually without any changes in water level. Valid permit, designated operator documentation, monthly inspection reports, monitoring plan, response plan, employee training records, daily visual UST monitoring logs, tank pages, certification of financial responsibility, [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-18-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS 2016 - Not Accepted - incorrect EPA ID - listed ARCO/BP Petroleums ID
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-23-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST submittal declined in CERS. The waste oil tank was reportedly installed at the same time as the three fuel tanks but the manufacturer is listed as unknown. Please review the tank records, secondary containment test reports, and appearance of the tank top to determine if it is the same manufacturer as the other tanks and then update the information in CERS. Overfill prevention is likely exempt. Please verify the overfill prevention method. Corrosion protection must include "isolation" for the tanks at this location.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-26-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Declined UST in CERS database. Discussed issues with operator, Salah.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-04-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Accepted UST documents in CERS- - CFR is dated 1/15/16 - DO is TM Environmental Services
Eval Division: Orange County Environmental Health

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Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-01-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification for 6-9
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-13-2016
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received the following documents: - Monitoring system certification dated 6/10/16 - Spill bucket test report dated 6/10/16
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-13-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS Received the Annual Monitoring System Certification Test Result, dated 6/9/17. The following tests PASSED: - Monitoring System Certification - Line Leak Detector - Spill Bucket Test
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST permiting documents declined in CERS due to: CFR State form is not legible. Please re-scan the document and upload.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-02-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-18-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following violations were cited on a previous inspection report

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

dated 6/9/17 and remain outstanding: I319- Secondary containment testing test result from 10/7/16 was not available for review on site. I673- The UST response plan was not available for review on site during the inspection. A copy of this report will be sent to tmansourenv@gmail.com

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-07-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Onsite during SB989 Secondary Containment Testing. Peyman Nabisi of Pacific Nozzles & Petroleum Services provided the following valid certifications: ICC, Incon, Veeder-Root.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-12-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and accepted CERS ID 10402924Underground Storage Tanks submittal dated 9/8/16.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-09-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENT: On site for routine UST inspection, monitoring system certification, and spill bucket testing. Testing of monitoring equipment was performed by Fernando Martinez on behalf of Pacific Nozzle and Petroleum Services; Tester provided the following verification and are all current: ICC, Veeder Root, and VMI. The facility has four double-walled underground storage tanks (87S, 87N, 91, and waste oil- not in use). The monitor was operational for audible and visual alarms. Leak sensors were located at the lowest point of the tank. Leak sensors for the annular spaces (VR-409), fill sumps (VR-208), turbine sumps (VR-208), and UDCs (VR-208) were tested and determined to be operational. Sensor out and fail safe, were tested and passed. ATGs are used for overfill prevention; tested and passed. The spill buckets were tested; bucket test passed. ELLD were tested and passed. This inspector did not witness all testing performed at this site. The following [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-15-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Eval Notes:	Change permit status to Do Not Issue Permit (03) per email from M. Le dated 6/13/17.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Change UST status to get a permit, per Berg.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The UST permit package has been accepted in the CERS database. Certification of Financial Responsibility is dated 6/9/15 Designated operator is Tony Mansour of TM Environmental Services. Violation (TR02) has been corrected. Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Added CO2
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-26-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received the following documents via CERS: - Monitoring system certification dated 6/16/14 - Spill bucket test report dated 6/16/14 - Designated Operator Owner Statement indicating DO is Tony Mansour - Certification of Financial Responsibility dated 1/16/15- form is incomplete Violation (I205) has been corrected. The following violations were cited on previous inspection reports and remain outstanding: (TR02) Failure to submit UST documents electronically: not accepted in CERS (TS05) Failure to maintain maintenance records (TS11) DO monthly records are incomplete/inaccurate (TS12) DO training records are not available for review Please submit the required records/documents to this Agency and/or CERS immediately.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Eval Date:	03-12-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review. ACCEPTED. Updated CFO letter provided.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-26-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	An off-site, follow-up inspection was conducted this date (3/26/18). The items noted below are in reference to an onsite inspection of your facility conducted on 6/9/17. OUTSTANDING VIOLATIONS ? 3/26/18 NONE CORRECTED VIOLATIONS ? 3/26/18 I319 - The operator has submitted a copy of their Secondary Containment Test Report and keeps a copy onsite and available for review I673 - The operator has submitted a copy of their UST Reponse Plan and keeps a copy onsite and available for staff UST requirements met, and operating permit to be issued.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-11-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-18-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	remodel need to add 300 lbs CO2
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-21-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Change status to not receive a permit, per Berg.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-09-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-12-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine UST inspection, monitoring system certification, and spill bucket testing. Consent to enter and inspect was given by Salah Mazloum. The facility has four double-walled tanks (87M, 87A, 91, WO) monitored by a Veeder Root TLS350 system. The monitor is operational for audible and visual alarms. The in-tank probes are used for overfill prevention. Positive shutdown and fail safe programming were verified. The sensors in the fuel tank annulars, turbine sumps, fill sumps, and UDCs all shutdown the turbines when submerged in fuel. The two electronic leak detectors were tested with a simulated 3 gph leak and were determined to be operational. The in-tank probes were positioned at 90% tank capacity, triggering an external audible/visual alarm for all three fuel tanks. The sensors in the waste oil tank annular and piping sump triggered an audible and visual alarm when submerged in fuel. Spill buckets were visually tested for 30 minutes. No indication of [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-13-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS submittal reviewed and was NOT ACCEPTED: Submittal was reviewed following on-site inspection. Please correct the following: Waste Oil Tank: Pipe Monitoring Section states that the pump automatically shut down when the leak alarm is triggered or when the tank is in fail safe. There is no pump on this tank top, please correct and re-submit. Monitoring Plan: For the Under Dispenser Containment (UDC) Monitoring Section: Under UDC Monitoring Stops Flow of Product at Dispenser- Indicate "Yes" only if flow is stopped at the individual dispensers regardless of whether or not the turbine is active (i.e. mechanical valves are closed or dispenser power is shut off). Indicate "No" if flow is not stopped at the individual dispensers (i.e. the turbine is shutdown). Please also obtain a copy of the inspection report from the owner/operator for details on other items that need to be corrected. Any questions, please feel free to contact me at minh.le@ochca.com or 714-720-1327. [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-21-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency received the monitoring system certification test report for a test conducted 6/8/18. The following components PASSED testing: - Tank Annular Sensors (4) - STP Sump Sensors (4) - Fill Sump Sensors (4) - UDC Sensors (4) - Audible/Visual Overfill Alarm - Fail

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

	Safe/Sensor Out - Spill Buckets Visual Test - Line Leak Detectors
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-19-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	needs to add CO2 on map
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-09-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has reviewed and accepted the Certification of Financial Responsibility documents in the CERS database. The form is dated 9/8/16. Violation (I583) has been corrected. Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-28-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SB 989 test notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	TONY MANSOUR
Entity Title:	Not reported
Affiliation Address:	18480 Brookhurst St
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	MK OIL INC.
Entity Title:	Not reported
Affiliation Address:	18480 Brookhurst St
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050
Affiliation Type Desc:	UST Tank Operator
Entity Name:	Salah Mazloum

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST STREET
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	Identification Signer
Entity Name:	Salah Mazloum
Entity Title:	OWNER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Salah Mazloum
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(310) 985-0699
Affiliation Type Desc:	Parent Corporation
Entity Name:	Arco # 01912
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	RASM LLC
Entity Title:	Not reported
Affiliation Address:	18480 Brookhurst St
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(310) 985-0699

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	SALAH MAZLOUM
Entity Title:	OWNER/OPERATOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 968-6050

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	SALAH MAZLOUM
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST STREET
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST ST.
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Tank Owner
Entity Name:	MK OIL INC.
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST STREET
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	Not reported
Affiliation Country:	UNITED STATES
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050

Affiliation Type Desc:	Document Preparer
Entity Name:	TONY MANSOUR, TM ENV. SVC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

HAZNET:

Site Name:	BP WEST COAST PRODUCTS LLC 01912
Year:	2013
GEPAID:	CAL000244194
Contact:	Jackie Dougherty
Telephone:	9494605200

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 0.0084
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Orange

Site Name: BP WEST COAST PRODUCTS LLC 01912
Year: 2012
GEPAID: CAL000244194
Contact: Jackie Dougherty
Telephone: 9494605200
Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 0.084
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Orange

Site Name: BP WEST COAST PRODUCTS LLC 01912
Year: 2011
GEPAID: CAL000244194
Contact: Jackie Dougherty
Telephone: 9494605200
Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 0.252
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Orange

Site Name: BP WEST COAST PRODUCTS LLC 01912
Year: 2010
GEPAID: CAL000244194
Contact: Jackie Dougherty
Telephone: 9494605200
Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: NVT330010000
TSD County: 99

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Tons: 0.0325
CA Waste Code: 352-Other organic solids
Method: H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Orange

Site Name: BP WEST COAST PRODUCTS LLC 01912
Year: 2010
GEPAID: CAL000244194
Contact: Jackie Dougherty
Telephone: 9494605200
Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing City,St,Zip: RCHO STA MARG, CA 926880000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 0.1722
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Orange

Click this hyperlink while viewing on your computer to access
13 additional CA_HAZNET: record(s) in the EDR Site Report.

CERS TANKS:
Site ID: 135730
CERS ID: 10402924
Site Name: MK OIL INC., DBA ARCO 83513
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 05-17-2016
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 07/21/2016.
Violation Division: Fountain Valley Fire
Violation Program: HMRRP
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 09-18-2017
Citation: HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description: Failure to obtain a valid permit to operate from the CUPA.
Violation Notes: Returned to compliance on 03/26/2018. The UST permit to operate was

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

not renewed by this Agency on July 1, 2017 due to noncompliance with UST laws and regulations. The facility owner and operator are currently operating the UST(s) without a permit. Please correct all violations listed on this report immediately. A permit will be issued when the site is in compliance and has paid all applicable UST fees.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 05-18-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 07/13/2017. remodel added CO2
Violation Division: Fountain Valley Fire
Violation Program: HMRRP
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 06-09-2017
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the UST.
Violation Notes: Returned to compliance on 03/26/2018. Secondary containment testing test result from 10/7/16 was not available for review on site. Please submit a copy to this Agency and maintain a copy on site within 30 days of this report.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 06-13-2016
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 09/09/2016. Certification of Financial Responsibility form has not been signed by a witness or notary. Please submit a complete form in CERS.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 135730
Site Name: MK OIL INC., DBA ARCO 83513
Violation Date: 06-09-2017
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Response Plan available on site.

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Violation Notes:	Returned to compliance on 03/26/2018. The UST response plan was not available for review on site during the inspection. Facility must obtain a copy and maintain/post it on site within 30 days. A follow-up inspection will be conducted within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	135730
Site Name:	MK OIL INC., DBA ARCO 83513
Violation Date:	07-19-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/17/2017. needs to add CO2 on Map
Violation Division:	Fountain Valley Fire
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	03-22-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following violations were noted on an inspection report dated 6/9/2017. The violations have not been corrected as of this date (3/22/2018) and a current UST Operating Permit was not issued to this facility because of the outstanding violations. Further enforcement (including fines) may be forthcoming. Please contact me ASAP to provide an update on the status of the violations listed in this report. OUTSTANDING VIOLATIONS - 3/22/18 I673 - The UST response plan was not available for review on site during the inspection. Facility must obtain a copy and maintain/post it on site within 30 days. A follow-up inspection will be conducted within 30 days. I319 - Secondary containment testing test result from 10/7/16 was not available for review on site. Please submit a copy to this Agency and maintain a copy on site within 30 days of this report.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-08-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	An on-site inspection was conducted this date to witness the annual monitoring system certification. Peyman Nabisi (Pacific Nozzle) conducted the monitoring system certification and provided current Veeder-Root, VMI, and ICC certifications. This facility contains: 4 - USTs (87, 87 syphon, 91, waste oil) Monitor system is a Veeder-Root monitor panel and reads all functions normal. Overfill protection provided by audible/visual alarms. Sensors were observed positioned so as to initiate alarms at the earliest point possible. Sensors were re-positioned in a true vertical position upon installation after testing. Alarm history and setup tape reviewed while on site. NOTE:

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

	Sensors L4 and L8 were renamed this date to correctly reflect their positions in the tank system (7/8 dispenser and 87 siphon, respectively) The following were tested: - Sensors, initiated positive shutdown to the turbines when tested in water - ?Fail Safe? and ?Positive Shutdown? - Overfill [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-09-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received call from Tony Mansour regarding site compliance. No revisions have been submitted to CERS. Tony said he did not get an email from CERS. Checked info, Tony had a typo in his email address in CERS. Received email from Salah Mazloum regarding theother violations. Received email with various documents. Will review them onsite during the annual inspection on Friday (scan copy difficult to read).
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-09-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENT: On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Salah E. Masloum, Owner. Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed and properly labeled. Manifests were available and reviewed. Employees are reported to be trained. Emergency plan is posted at the Veeder-Root panel behind the casher station. No hazardous waste or universal waste observed in the dumpster/enclosure area. No hazardous waste violations were observed this date.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-23-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-01-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspection rescheduling due to regularly scheduled day off falling on 6/9. Confirmation from the tester is pending.
Eval Division:	Orange County Environmental Health
Eval Program:	UST

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-10-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST documents declined in CERS: The waste oil tank was reportedly installed at the same time as the three fuel tanks but the manufacturer is listed as unknown. Please review the tank records, secondary containment test reports, and appearance of the tank top to determine if it is the same manufacturer as the other tanks and then update the information in CERS. Overfill prevention is likely exempt. Please verify the overfill prevention method. Corrosion protection must include "isolation" for the tanks at this location. Waste oil monitoring plan: the waste oil tank does not have an electronic line leak detector installed, and no UDC monitoring is being conducted. Please remove the information from these sections of the plan. The state form for the Certification of Financial Responsibility must be signed by the witness/notary. Please have the owner/operator sign the leak response plan.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-10-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Inspector Comments: On site to witness monitoring system certification testing activities and to conduct routine UST inspection. Waste oil tank’s annular and sump sensors alarmed properly, both visual and audible, when submerged in water. Gasoline tanks’ annular and sump sensors alarmed properly (visual and audible) and shut down respective turbine when submerged in water. UDC sensors alarmed properly (visual and audible) and shut down turbines when submerged in water. Fail-safe, sensor out and emergency shut off were tested and passed. Line leak detectors were tested and passed. ATGs were tested and passed test with the enunciator functioning properly. Spill buckets were tested visually without any changes in water level. Valid permit, designated operator documentation, monthly inspection reports, monitoring plan, response plan, employee training records, daily visual UST monitoring logs, tank pages, certification of financial responsibility, [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-18-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS 2016 - Not Accepted - incorrect EPA ID - listed ARCO/BP Petroleums ID
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Eval General Type:	Other/Unknown
Eval Date:	06-23-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST submittal declined in CERS. The waste oil tank was reportedly installed at the same time as the three fuel tanks but the manufacturer is listed as unknown. Please review the tank records, secondary containment test reports, and appearance of the tank top to determine if it is the same manufacturer as the other tanks and then update the information in CERS. Overfill prevention is likely exempt. Please verify the overfill prevention method. Corrosion protection must include "isolation" for the tanks at this location.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-26-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Declined UST in CERS database. Discussed issues with operator, Salah.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-04-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Accepted UST documents in CERS- - CFR is dated 1/15/16 - DO is TM Environmental Services
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-01-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification for 6-9
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-13-2016
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received the following documents: - Monitoring system certification dated 6/10/16 - Spill bucket test report dated 6/10/16
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-13-2017
Violations Found:	No

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS Received the Annual Monitoring System Certification Test Result, dated 6/9/17. The following tests PASSED: - Monitoring System Certification - Line Leak Detector - Spill Bucket Test
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST permiting documents declined in CERS due to: CFR State form is not legible. Please re-scan the document and upload.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-02-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-18-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following violations were cited on a previous inspection report dated 6/9/17 and remain outstanding: I319- Secondary containment testing test result from 10/7/16 was not available for review on site. I673- The UST response plan was not available for review on site during the inspection. A copy of this report will be sent to tmansourenv@gmail.com
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-07-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Onsite during SB989 Secondary Containment Testing. Peyman Nabisi of Pacific Nozzles & Petroleum Services provided the following valid certifications: ICC, Incon, Veeder-Root.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-12-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed and accepted CERS ID 10402924Underground Storage Tanks

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

	submittal dated 9/8/16.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-09-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENT: On site for routine UST inspection, monitoring system certification, and spill bucket testing. Testing of monitoring equipment was performed by Fernando Martinez on behalf of Pacific Nozzle and Petroleum Services; Tester provided the following verification and are all current: ICC, Veeder Root, and VMI. The facility has four double-walled underground storage tanks (87S, 87N, 91, and waste oil- not in use). The monitor was operational for audible and visual alarms. Leak sensors were located at the lowest point of the tank. Leak sensors for the annular spaces (VR-409), fill sumps (VR-208), turbine sumps (VR-208), and UDCs (VR-208) were tested and determined to be operational. Sensor out and fail safe, were tested and passed. ATGs are used for overfill prevention; tested and passed. The spill buckets were tested; bucket test passed. ELLD were tested and passed. This inspector did not witness all testing performed at this site. The following [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-15-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Change permit status to Do Not Issue Permit (03) per email from M. Le dated 6/13/17.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Change UST status to get a permit, per Berg.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The UST permit package has been accepted in the CERS database. Certification of Financial Responsibility is dated 6/9/15 Designated operator is Tony Mansour of TM Environmental Services. Violation (TR02) has been corrected. Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Added CO2
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-26-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received the following documents via CERS: - Monitoring system certification dated 6/16/14 - Spill bucket test report dated 6/16/14 - Designated Operator Owner Statement indicating DO is Tony Mansour - Certification of Financial Responsibility dated 1/16/15- form is incomplete Violation (I205) has been corrected. The following violations were cited on previous inspection reports and remain outstanding: (TR02) Failure to submit UST documents electronically: not accepted in CERS (TS05) Failure to maintain maintenance records (TS11) DO monthly records are incomplete/inaccurate (TS12) DO training records are not available for review Please submit the required records/documents to this Agency and/or CERS immediately.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-12-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review. ACCEPTED. Updated CFO letter provided.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-26-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	An off-site, follow-up inspection was conducted this date (3/26/18). The items noted below are in reference to an onsite inspection of your facility conducted on 6/9/17. OUTSTANDING VIOLATIONS ? 3/26/18 NONE CORRECTED VIOLATIONS ? 3/26/18 I319 - The operator has submitted a copy of their Secondary Containment Test Report and keeps a copy onsite and available for review I673 - The operator has submitted a copy of their UST Reponse Plan and keeps a copy onsite and available for staff UST requirements met, and operating permit to be issued.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Eval Date:	05-11-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-18-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	remodel need to add 300 lbs CO2
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-21-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Change status to not receive a permit, per Berg.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-09-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-12-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine UST inspection, monitoring system certification, and spill bucket testing. Consent to enter and inspect was given by Salah Mazloum. The facility has four double-walled tanks (87M, 87A, 91, WO) monitored by a Veeder Root TLS350 system. The monitor is operational for audible and visual alarms. The in-tank probes are used for overfill prevention. Positive shutdown and fail safe programming were verified. The sensors in the fuel tank annulars, turbine sumps, fill sumps, and UDCs all shutdown the turbines when submerged in fuel. The two electronic leak detectors were tested with a simulated 3 gph leak and were determined to be operational. The in-tank probes were positioned at 90% tank capacity, triggering an external audible/visual alarm for all three fuel tanks. The sensors in the waste oil tank annular and piping sump triggered an audible and visual alarm when submerged in fuel. Spill buckets were visually tested for 30 minutes. No indication of [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Eval General Type:	Other/Unknown
Eval Date:	06-13-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS submittal reviewed and was NOT ACCEPTED: Submittal was reviewed following on-site inspection. Please correct the following: Waste Oil Tank: Pipe Monitoring Section states that the pump automatically shut down when the leak alarm is triggered or when the tank is in fail safe. There is no pump on this tank top, please correct and re-submit. Monitoring Plan: For the Under Dispenser Containment (UDC) Monitoring Section: Under UDC Monitoring Stops Flow of Product at Dispenser- Indicate "Yes" only if flow is stopped at the individual dispensers regardless of whether or not the turbine is active (i.e. mechanical valves are closed or dispenser power is shut off). Indicate "No" if flow is not stopped at the individual dispensers (i.e. the turbine is shutdown). Please also obtain a copy of the inspection report from the owner/operator for details on other items that need to be corrected. Any questions, please feel free to contact me at minh.le@ochca.com or 714-720-1327. [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	06-21-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency received the monitoring system certification test report for a test conducted 6/8/18. The following components PASSED testing: - Tank Annular Sensors (4) - STP Sump Sensors (4) - Fill Sump Sensors (4) - UDC Sensors (4) - Audible/Visual Overfill Alarm - Fail Safe/Sensor Out - Spill Buckets Visual Test - Line Leak Detectors
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-19-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	needs to add CO2 on map
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	09-09-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has reviewed and accepted the Certification of Financial Responsibility documents in the CERS database. The form is dated 9/8/16. Violation (I583) has been corrected. Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Eval Date:	09-28-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SB 989 test notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	TONY MANSOUR
Entity Title:	Not reported
Affiliation Address:	18480 Brookhurst St
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	MK OIL INC.
Entity Title:	Not reported
Affiliation Address:	18480 Brookhurst St
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050

Affiliation Type Desc:	UST Tank Operator
Entity Name:	Salah Mazloum
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST STREET
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Identification Signer
Entity Name:	Salah Mazloum
Entity Title:	OWNER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Salah Mazloum
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(310) 985-0699
Affiliation Type Desc:	Parent Corporation
Entity Name:	Arco # 01912
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	RASM LLC
Entity Title:	Not reported
Affiliation Address:	18480 Brookhurst St
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(310) 985-0699
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	SALAH MAZLOUM
Entity Title:	OWNER/OPERATOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 968-6050
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	SALAH MAZLOUM
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST STREET
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST ST.
Affiliation City:	FOUNTAIN VALLEY

BP WEST COAST PRODUCTS LLC 01912 (Continued) **S113117445**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Tank Owner
Entity Name:	MK OIL INC.
Entity Title:	Not reported
Affiliation Address:	18480 BROOKHURST STREET
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	Not reported
Affiliation Country:	UNITED STATES
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6050
Affiliation Type Desc:	Document Preparer
Entity Name:	TONY MANSOUR, TM ENV. SVC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

E35 **HOME CARE SAMARITANS INC** **RCRA NonGen / NLR** **1024805171**
NE **18444 BROOKHURST** **CAL000262164**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.189 mi.
996 ft. **Site 12 of 12 in cluster E**

Relative: **Higher**
Actual: **17 ft.**

RCRA NonGen / NLR:

Date form received by agency:	11/13/2002
Facility name:	HOME CARE SAMARITANS INC
Facility address:	18444 BROOKHURST FOUNTAIN VALLEY, CA 92708-0000
EPA ID:	CAL000262164
Contact:	DR BJARNE KVARNSTROM
Contact address:	18444 BROOKHURST STREET FOUNTAIN VALLEY, CA 92708
Contact country:	Not reported
Contact telephone:	714-962-2471
Contact email:	KPKVARNSTROM@HOTMAIL.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	DR BJARNE KVARNSTROM
Owner/operator address:	18444 BROOKHURST STREET FOUNTAIN VALLEY, CA 92708
Owner/operator country:	Not reported
Owner/operator telephone:	714-962-2471
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported

HOME CARE SAMARITANS INC (Continued) **1024805171**

Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: DR BJARNE KVARNSTROM
Owner/operator address: 18444 BROOKHURST
FOUNTAIN VALLEY, CA 92708
Owner/operator country: Not reported
Owner/operator telephone: 714-962-2471
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

G36 **FOUNTAIN VALLEY AUTO WASH** **HIST UST** **U001578364**
NE **10035 ELLIS AVE** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.206 mi.
1087 ft. **Site 1 of 3 in cluster G**

Relative: **Higher**
Actual: **13 ft.**

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000042394
Facility Type: Gas Station
Other Type: RETAIL GAS CAR WASH
Contact Name: Not reported
Telephone: 7149622888
Owner Name: BEACON BAY ENTERPRISES, INC.
Owner Address: 260 NEWPORT CENTER DRIVE
Owner City,St,Zip: NEWPORT BEACH, CA 92660
Total Tanks: 0007

Tank Num: 001

FOUNTAIN VALLEY AUTO WASH (Continued) **U001578364**

Container Num:	1
Year Installed:	1972
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10
Tank Num:	002
Container Num:	2
Year Installed:	1972
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10
Tank Num:	003
Container Num:	3
Year Installed:	1972
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10
Tank Num:	004
Container Num:	4
Year Installed:	1972
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10
Tank Num:	005
Container Num:	5
Year Installed:	1972
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10
Tank Num:	006
Container Num:	6
Year Installed:	1972
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10
Tank Num:	007
Container Num:	7
Year Installed:	1972
Tank Capacity:	00012000

FOUNTAIN VALLEY AUTO WASH (Continued) **U001578364**

Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor, 10

G37 **BEACON BAY AUTO WASH/FN VALLEY** **UST** **U003432803**
NE **10035 ELLIS AVE** **SWEEPS UST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.206 mi.
1087 ft. **Site 2 of 3 in cluster G**

Relative:
Higher

Actual:
13 ft.

UST:
Facility ID: 5094
Permitting Agency: ORANGE COUNTY
Latitude: 33.69571
Longitude: -117.9516943

SWEEPS UST:
Status: Not reported
Comp Number: 5094
Number: Not reported
Board Of Equalization: 44-016335
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-005094-000001
Tank Status: Not reported
Capacity: 12000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: 7

Status: Not reported
Comp Number: 5094
Number: Not reported
Board Of Equalization: 44-016335
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-005094-000002
Tank Status: Not reported
Capacity: 12000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 5094
Number: Not reported
Board Of Equalization: 44-016335
Referral Date: Not reported

BEACON BAY AUTO WASH/FN VALLEY (Continued) **U003432803**

Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-005094-000003
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	5094
Number:	Not reported
Board Of Equalization:	44-016335
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-005094-000004
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	5094
Number:	Not reported
Board Of Equalization:	44-016335
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-005094-000005
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	5094
Number:	Not reported
Board Of Equalization:	44-016335
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-005094-000006
Tank Status:	Not reported
Capacity:	12000

BEACON BAY AUTO WASH/FN VALLEY (Continued) **U003432803**

Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 5094
Number: Not reported
Board Of Equalization: 44-016335
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-005094-000007
Tank Status: Not reported
Capacity: 12000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 5094
Number: 9
Board Of Equalization: 44-016335
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-005094-000008
Tank Status: A
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 2

Status: Active
Comp Number: 5094
Number: 9
Board Of Equalization: 44-016335
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-005094-000009
Tank Status: A
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

G38 **FOUNTAIN VALLEY AUTO WASH** **LUST** **U002095932**
NE **10035 ELLIS AVENUE** **HIST UST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708** **CA FID UST**
0.206 mi. **HIST CORTESE**
1087 ft. **Site 3 of 3 in cluster G** **CERS**

Relative:
Higher

Actual:
13 ft.

LUST:

Lead Agency:	ORANGE COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900955
Global Id:	T0605900955
Latitude:	33.69445
Longitude:	-117.952917
Status:	Completed - Case Closed
Status Date:	04/19/2006
Case Worker:	TE
RB Case Number:	083001219T
Local Agency:	ORANGE COUNTY LOP
File Location:	Local Agency Warehouse
Local Case Number:	89UT071
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0605900955
Contact Type:	Regional Board Caseworker
Contact Name:	NANCY OLSON-MARTIN
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	nolson-martin@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0605900955
Contact Type:	Local Agency Caseworker
Contact Name:	TAMARA ESCOBEDO
Organization Name:	ORANGE COUNTY LOP
Address:	1241 EAST DYER ROAD SUITE 120
City:	SANTA ANA
Email:	tescobedo@ochca.com
Phone Number:	7144336251

LUST:

Global Id:	T0605900955
Action Type:	Other
Date:	04/13/1989
Action:	Leak Reported

Global Id:	T0605900955
Action Type:	REMEDIATION
Date:	09/15/1997
Action:	Excavation

Global Id:	T0605900955
Action Type:	REMEDIATION
Date:	09/15/1997
Action:	Other (Use Description Field)

FOUNTAIN VALLEY AUTO WASH (Continued) **U002095932**

Global Id: T0605900955
Action Type: REMEDIATION
Date: 09/15/1997
Action: Soil Vapor Extraction (SVE)

Global Id: T0605900955
Action Type: RESPONSE
Date: 05/21/1992
Action: Final Remedial Action Report / Corrective Action Report

Global Id: T0605900955
Action Type: RESPONSE
Date: 05/21/1992
Action: Soil and Water Investigation Report

Global Id: T0605900955
Action Type: Other
Date: 04/13/1989
Action: Leak Discovery

Global Id: T0605900955
Action Type: ENFORCEMENT
Date: 04/19/2006
Action: Closure/No Further Action Letter

Global Id: T0605900955
Action Type: ENFORCEMENT
Date: 05/07/1992
Action: * Historical Enforcement

LUST:
Global Id: T0605900955
Status: Completed - Case Closed
Status Date: 04/19/2006

Global Id: T0605900955
Status: Open - Case Begin Date
Status Date: 04/13/1989

Global Id: T0605900955
Status: Open - Verification Monitoring
Status Date: 07/16/2002

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 89UT071
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 04/19/2006
Record ID: RO0002590

LUST REG 8:
Region: 8
County: Orange
Regional Board: Santa Ana Region
Facility Status: Post remedial action monitoring

FOUNTAIN VALLEY AUTO WASH (Continued) **U002095932**

Case Number:	083001219T
Local Case Num:	89UT071
Case Type:	Other ground water affected
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	LFOR
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	New Tank
Leak Cause:	Unknown
Leak Source:	Tank
Global ID:	T0605900955
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	4/13/1989
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	7/16/2002
Enter Date:	Not reported
GW Qualifies:	=
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.6941655
Longitude:	-117.953812
MTBE Date:	1/20/2004
Max MTBE GW:	3200
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	NOM
Staff Initials:	JK
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

HIST UST:

File Number:	0002E56E
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002E56E.pdf
Region:	Not reported

FOUNTAIN VALLEY AUTO WASH (Continued) **U002095932**

Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 30000922
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7146444460
Mail To: Not reported
Mailing Address: 260 NEWPORT CENTER DR
Mailing Address 2: Not reported
Mailing City,St,Zip: FOUNTAIN VALLEY 92708
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083001219T

CERS TANKS:
Site ID: 168745
CERS ID: 10165017
Site Name: VERIZON WIRELESS: TANAGER
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-06-2016
Violations Found: No

FOUNTAIN VALLEY AUTO WASH (Continued) **U002095932**

Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Identification Signer
Entity Name:	Myrna Allende
Entity Title:	Regulatory Specialist
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Myrna Allende
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	15505 Sand Canyon Avenue, MS D-104
Affiliation City:	Irvine
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92618
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Environmental Contact
Entity Name:	Environmental Compliance
Entity Title:	Not reported
Affiliation Address:	15505 Sand Canyon Avenue, MS D-104
Affiliation City:	Irvine
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92618
Affiliation Phone:	Not reported

FOUNTAIN VALLEY AUTO WASH (Continued) **U002095932**

Affiliation Type Desc: Legal Owner
Entity Name: Verizon Wireless
Entity Title: Not reported
Affiliation Address: 15505 Sand Canyon Avenue, MS D-104
Affiliation City: Irvine
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92618
Affiliation Phone: (949) 286-7000

Affiliation Type Desc: Operator
Entity Name: Verizon Wireless
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (949) 286-7000

Affiliation Type Desc: Parent Corporation
Entity Name: Verizon Wireless [Southern California]
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Site ID: 241470
CERS ID: T0605900955
Site Name: BEACON BAY AUTO WASH
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: TAMARA ESCOBEDO - ORANGE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1241 EAST DYER ROAD SUITE 120
Affiliation City: SANTA ANA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7144336251

Affiliation Type Desc: Regional Board Caseworker
Entity Name: NANCY OLSON-MARTIN - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

H39 **SHELL OIL CO** **RCRA-SQG** **1000288469**
SSE **18976 BROOKHURST** **SWEEPS UST** **CAD981446651**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708** **CA FID UST**
0.248 mi. **HIST CORTESE**
1307 ft. **Site 1 of 8 in cluster H** **CERS**

Relative: Higher

Actual: 17 ft.

RCRA-SQG:

Date form received by agency:	04/08/1998
Facility name:	SHELL OIL CO
Facility address:	18976 BROOKHURST FOUNTAIN VALLEY, CA 92708
EPA ID:	CAD981446651
Mailing address:	P O BOX 4453 HOUSTON, TX 77210-4453
Contact:	SONDRA BIENVENU
Contact address:	P O BOX 4453 HOUSTON, TX 77210-4453
Contact country:	US
Contact telephone:	713-241-2258
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	EQUILON ENTERPRISES LLC
Owner/operator address:	P O BOX 4453 HOUSTON, TX 77210
Owner/operator country:	Not reported
Owner/operator telephone:	713-241-2258
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

SHELL OIL CO (Continued) **1000288469**

Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/01/1996
Site name: SHELL OIL CO
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

SWEEPS UST:
Status: Active
Comp Number: 2379
Number: 9
Board Of Equalization: 44-000074
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002379-000001
Tank Status: A
Capacity: 550
Active Date: Not reported
Tank Use: PETROLEUM
STG: P
Content: Not reported
Number Of Tanks: 4

Status: Active
Comp Number: 2379
Number: 9
Board Of Equalization: 44-000074
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002379-000005
Tank Status: A

SHELL OIL CO (Continued) **1000288469**

Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 2379
Number: 9
Board Of Equalization: 44-000074
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002379-000006
Tank Status: A
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 2379
Number: 9
Board Of Equalization: 44-000074
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002379-000007
Tank Status: A
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 30000411
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7149625112
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: FOUNTAIN VALLEY 92708
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported

SHELL OIL CO (Continued) **1000288469**

Comments: Not reported
Status: Active

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083000339T

CERS TANKS:
Site ID: 364615
CERS ID: 10660663
Site Name: CARL'S JR. #381
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-17-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: CO2
Eval Division: Fountain Valley Fire
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 364615
Facility Name: Carl's Jr. #381
Env Int Type Code: HMBP
Program ID: 10660663
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.687210
Longitude: -117.953620

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Jazmyn Carpenter
Entity Title: Not reported
Affiliation Address: 716 Corporate Center Drive
Affiliation City: Pomona
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91768
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Carl's Jr.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (805) 672-2889

SHELL OIL CO (Continued) **1000288469**

Affiliation Type Desc:	Parent Corporation
Entity Name:	Carl's Jr.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Perla Salgado
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	716 Corporate Center Drive
Affiliation City:	Pomona
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91768
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Perla Salgado
Entity Title:	District Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	OC Burger Boys, LLC
Entity Title:	Not reported
Affiliation Address:	716 Corporate Center Drive
Affiliation City:	Pomona
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91768
Affiliation Phone:	(805) 660-0374

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported

SHELL OIL CO (Continued) **1000288469**

Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6000

H40 **SHELL OIL** **LUST** **S103638202**
SSE **18976 BROOKHURST** **Cortese** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708** **CERS**
0.248 mi.
1307 ft. **Site 2 of 8 in cluster H**

Relative:
Higher

Actual:
17 ft.

LUST:
Lead Agency: ORANGE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900265
Global Id: T0605900265
Latitude: 33.686958841
Longitude: -117.953903728
Status: Open - Verification Monitoring
Status Date: 05/06/2014
Case Worker: SR
RB Case Number: 083000339T
Local Agency: ORANGE COUNTY LOP
File Location: Local Agency
Local Case Number: 86UT033
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Please refer to recent Site Documents or Monitoring Reports in GeoTracker for site history. Orange County is not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants for the responsible party.

LUST:
Global Id: T0605900265
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: carl.bernhardt@waterboards.ca.gov
Phone Number: 9517824495

Global Id: T0605900265
Contact Type: Local Agency Caseworker
Contact Name: SHYAMALA RAJAGOPAL
Organization Name: ORANGE COUNTY LOP
Address: 1241 E. DYER ROAD SUITE 120
City: SANTA ANA
Email: srajagopal@ochca.com
Phone Number: 7144336262

LUST:
Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 12/27/2016
Action: File Review - Closure

Global Id: T0605900265
Action Type: ENFORCEMENT

SHELL OIL (Continued) **S103638202**

Date: 09/20/2016
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 12/23/2016
Action: File Review - Closure

Global Id: T0605900265
Action Type: Other
Date: 04/09/1986
Action: Leak Reported

Global Id: T0605900265
Action Type: RESPONSE
Date: 07/24/2013
Action: Request for Closure - Regulator Responded

Global Id: T0605900265
Action Type: RESPONSE
Date: 10/29/2013
Action: Request for Closure - Regulator Responded

Global Id: T0605900265
Action Type: RESPONSE
Date: 06/12/2014
Action: Request for Closure - Regulator Responded

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 12/27/2016
Action: Email Correspondence

Global Id: T0605900265
Action Type: RESPONSE
Date: 08/02/2018
Action: Other Workplan - Regulator Responded

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 07/13/2009
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 02/18/2017
Action: File review

Global Id: T0605900265
Action Type: RESPONSE
Date: 07/14/1986
Action: Preliminary Site Assessment Workplan

Global Id: T0605900265
Action Type: RESPONSE
Date: 11/28/2016
Action: Clean Up Fund - 5-Year Review Summary

SHELL OIL (Continued) **S103638202**

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 11/17/2010
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 11/17/2010
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 01/11/2011
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 02/15/2011
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 05/20/2011
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 07/20/2010
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 09/18/2013
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 09/19/2013
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 10/04/2012
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 11/09/2012
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 09/19/2013
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT

SHELL OIL (Continued) **S103638202**

Date: 09/28/2018
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 05/06/2014
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 10/23/2014
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 10/22/2014
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 05/23/2014
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 05/06/2014
Action: Staff Letter

Global Id: T0605900265
Action Type: REMEDIATION
Date: 03/01/1987
Action: Excavation

Global Id: T0605900265
Action Type: REMEDIATION
Date: 05/01/1987
Action: Excavation

Global Id: T0605900265
Action Type: REMEDIATION
Date: 04/01/1987
Action: Pump & Treat (P&T) Groundwater

Global Id: T0605900265
Action Type: REMEDIATION
Date: 04/15/1990
Action: Free Product Removal

Global Id: T0605900265
Action Type: REMEDIATION
Date: 09/01/1994
Action: Pump & Treat (P&T) Groundwater

Global Id: T0605900265
Action Type: REMEDIATION
Date: 04/01/1990
Action: Pump & Treat (P&T) Groundwater

SHELL OIL (Continued) **S103638202**

Global Id: T0605900265
Action Type: Other
Date: 04/09/1986
Action: Leak Discovery

Global Id: T0605900265
Action Type: RESPONSE
Date: 04/04/2014
Action: Other Report / Document

Global Id: T0605900265
Action Type: RESPONSE
Date: 06/19/2018
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 10/24/2014
Action: Email Correspondence

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 03/19/2015
Action: File review

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 04/14/1986
Action: Notice of Responsibility

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 05/22/2007
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 01/29/2007
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 09/17/2007
Action: Staff Letter

Global Id: T0605900265
Action Type: ENFORCEMENT
Date: 09/05/2006
Action: Staff Letter

LUST:
Global Id: T0605900265
Status: Open - Case Begin Date
Status Date: 04/09/1986

Global Id: T0605900265
Status: Open - Remediation

SHELL OIL (Continued) **S103638202**

Status Date: 03/01/1987

Global Id: T0605900265
Status: Open - Site Assessment
Status Date: 04/13/1987

Global Id: T0605900265
Status: Open - Verification Monitoring
Status Date: 05/06/2014

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 86UT033
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: Not reported
Record ID: RO0001552

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Pollution Characterization
Case Number:	083000339T
Local Case Num:	86UT033
Case Type:	Other ground water affected
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	NOR
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	New Tank
Leak Cause:	Unknown
Leak Source:	Tank
Global ID:	T0605900265
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	4/9/1986
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	4/13/1987
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	3/1/1987
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	=
Soil Qualifies:	=
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST

SHELL OIL (Continued) **S103638202**

Latitude:	33.6871407
Longitude:	-117.954092
MTBE Date:	6/24/2002
Max MTBE GW:	810
MTBE Concentration:	0
Max MTBE Soil:	130
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	CAB
Staff Initials:	JK
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

CORTESE:

Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0605900265
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	OPEN - VERIFICATION MONITORING
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

CERS TANKS:

Site ID:	191047
CERS ID:	T0605900265
Site Name:	SHELL OIL
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	SHYAMALA RAJAGOPAL - ORANGE COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1241 E. DYER ROAD SUITE 120
Affiliation City:	SANTA ANA
Affiliation State:	CA
Affiliation Country:	Not reported

SHELL OIL (Continued) **S103638202**

Affiliation Zip:	Not reported
Affiliation Phone:	7144336262
Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	CARL BERNHARDT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9517824495

H41 **TONY P MANAGO** **HIST UST** **U001578396**
SSE **18976 BROOKHURST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.248 mi.
1307 ft. **Site 3 of 8 in cluster H**

Relative: **Higher**

Actual: **17 ft.**

HIST UST:

File Number:	0002EDCF
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002EDCF.pdf
Region:	STATE
Facility ID:	00000004478
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	TONY P. MANAGO
Telephone:	7149625112
Owner Name:	SHELL OIL COMPANY
Owner Address:	P.O. BOX 4848
Owner City,St,Zip:	ANAHEIM, CA 92803
Total Tanks:	0005
Tank Num:	001
Container Num:	1
Year Installed:	1965
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10
Tank Num:	002
Container Num:	2
Year Installed:	1965
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	12
Leak Detection:	Stock Inventor, 10
Tank Num:	003
Container Num:	3
Year Installed:	1965
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED

TONY P MANAGO (Continued) **U001578396**

Container Construction Thickness: 1/4
Leak Detection: Stock Inventor, 10

Tank Num: 004
Container Num: 4
Year Installed: 1965
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor, 10

Tank Num: 005
Container Num: 5
Year Installed: 1970
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor, 10

Click here for Geo Tracker PDF:

H42 **TONYS SHELL SERVICE** **HIST UST** **U001578397**
SSE **18976 BROOKHURST ST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.248 mi.
1307 ft. **Site 4 of 8 in cluster H**

Relative: **Higher**
Actual: **17 ft.**

HIST UST:
File Number: 0002EDC1
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002EDC1.pdf
Region: STATE
Facility ID: 00000063334
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 7145451268
Owner Name: SHELL OIL CO.
Owner Address: ONE SHELL PLAZA, P.O. BOX 2463
Owner City,St,Zip: HOUSTON, TX 77001
Total Tanks: 0006

Tank Num: 001
Container Num: I
Year Installed: Not reported
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, None, 10

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED

TONYS SHELL SERVICE (Continued) **U001578397**

Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Tank Num: 003
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Tank Num: 004
Container Num: 4
Year Installed: Not reported
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Tank Num: 005
Container Num: 5
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 006
Container Num: 6
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: None

Click here for Geo Tracker PDF:

H43 **SHELL (3835-0710)** **UST** **U003721225**
SSE **18976 BROOKHURST ST** **N/A**
1/8-1/4 **FOUNTAIN VALLEY, CA 92708**
0.248 mi.
1307 ft. **Site 5 of 8 in cluster H**

Relative: UST:
Higher
Facility ID: 2379
Actual: Permitting Agency: ORANGE COUNTY
17 ft. Latitude: 33.6886453
Longitude: -117.9523333

44
NNE
1/4-1/2
0.271 mi.
1430 ft.

REPLANET LLC
18405 BROOKHURST
FOUNTAIN VALLEY, CA 92708

SWRCY **S107138127**
N/A

Relative:
Higher

Actual:
20 ft.

SWRCY:

Reg Id:	156195
Cert Id:	RC156195.001
Mailing Address:	800 N Haven Ave Suite 120
Mailing City:	Ontario
Mailing State:	CA
Mailing Zip Code:	91764
Website:	http://www.replanet.com
Email:	Not reported
Phone Number:	(877) 737-5263
Rural:	N
Operation Begin Date:	05/01/2012
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Hours of Operation:	Mon Closed; Tue - Sat 10:00 am - 4:30 pm, Closed 1:00 pm - 1:30 pm; Sun Closed
Organization ID:	151891
Organization Name:	rePlanet LLC

H45
SSE
1/4-1/2
0.271 mi.
1430 ft.

MOBIL OIL
19002 BROOKHURST
HUNTINGTON BEACH, CA 92646

Site 6 of 8 in cluster H

LUST **S106175863**
CERS **N/A**

Relative:
Higher

Actual:
17 ft.

LUST:

Lead Agency:	ORANGE COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605957667
Global Id:	T0605957667
Latitude:	33.686452689
Longitude:	-117.953610155
Status:	Completed - Case Closed
Status Date:	04/07/2015
Case Worker:	TE
RB Case Number:	Not reported
Local Agency:	ORANGE COUNTY LOP
File Location:	Local Agency
Local Case Number:	03UT036
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Please refer to recent Site Documents or Monitoring Reports in GeoTracker for site history. Orange County is not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants for the responsible party.

LUST:

Global Id:	T0605957667
Contact Type:	Regional Board Caseworker
Contact Name:	ROSE SCOTT
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE

MOBIL OIL (Continued) **S106175863**

Email: rose.scott@waterboards.ca.gov
Phone Number: 9513206375

Global Id: T0605957667
Contact Type: Local Agency Caseworker
Contact Name: TAMARA ESCOBEDO
Organization Name: ORANGE COUNTY LOP
Address: 1241 EAST DYER ROAD SUITE 120
City: SANTA ANA
Email: tescobedo@ochca.com
Phone Number: 7144336251

LUST:
Global Id: T0605957667
Action Type: RESPONSE
Date: 11/27/2012
Action: Request for Closure - Regulator Responded

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 11/24/2008
Action: Staff Letter

Global Id: T0605957667
Action Type: Other
Date: 07/30/2003
Action: Leak Reported

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 09/22/2008
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 07/10/2009
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 07/20/2010
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 12/21/2010
Action: Staff Letter

Global Id: T0605957667
Action Type: RESPONSE
Date: 10/30/2003
Action: Preliminary Site Assessment Workplan

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 05/10/2013
Action: Staff Letter

MOBIL OIL (Continued) **S106175863**

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 11/04/2014
Action: Notification - Preclosure

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 12/15/2006
Action: Waste Discharge Requirements

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 04/07/2015
Action: Closure/No Further Action Letter

Global Id: T0605957667
Action Type: REMEDIATION
Date: 12/07/2006
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0605957667
Action Type: REMEDIATION
Date: 07/18/2011
Action: Pump & Treat (P&T) Groundwater

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 06/03/2014
Action: Notification - Public Notice of Case Closure

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 06/03/2014
Action: Notification - Public Participation Document

Global Id: T0605957667
Action Type: Other
Date: 07/30/2003
Action: Leak Discovery

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 09/22/2003
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 10/10/2006
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 07/01/2004
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT

MOBIL OIL (Continued) **S106175863**

Date: 08/30/2007
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 07/30/2003
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 08/11/2006
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 03/19/2007
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 11/28/2006
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 01/07/2005
Action: * Corrective Action Orders

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 06/21/2007
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 08/13/2007
Action: Staff Letter

Global Id: T0605957667
Action Type: ENFORCEMENT
Date: 11/09/2007
Action: Staff Letter

LUST:
Global Id: T0605957667
Status: Completed - Case Closed
Status Date: 04/03/2015

Global Id: T0605957667
Status: Completed - Case Closed
Status Date: 04/07/2015

Global Id: T0605957667
Status: Open - Case Begin Date
Status Date: 07/01/2003

Global Id: T0605957667

MOBIL OIL (Continued) **S106175863**

Status: Open - Eligible for Closure
Status Date: 03/22/2013

Global Id: T0605957667
Status: Open - Remediation
Status Date: 12/07/2006

Global Id: T0605957667
Status: Open - Remediation
Status Date: 07/28/2011

Global Id: T0605957667
Status: Open - Site Assessment
Status Date: 07/01/2003

Global Id: T0605957667
Status: Open - Site Assessment
Status Date: 07/30/2003

Global Id: T0605957667
Status: Open - Verification Monitoring
Status Date: 09/30/2010

Lead Agency: ORANGE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900543
Global Id: T0605900543
Latitude: 33.686517
Longitude: -117.953661
Status: Completed - Case Closed
Status Date: 12/05/1988
Case Worker: GH
RB Case Number: 083000687T
Local Agency: ORANGE COUNTY LOP
File Location: Local Agency
Local Case Number: 87UT233
Potential Media Affect: Under Investigation
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

LUST:
Global Id: T0605900543
Contact Type: Local Agency Caseworker
Contact Name: GENIECE HIGGINS
Organization Name: ORANGE COUNTY LOP
Address: 1241 EAST DYER ROAD SUITE 120
City: SANTA ANA
Email: ghiggins@ochca.com
Phone Number: 7144336260

Global Id: T0605900543
Contact Type: Regional Board Caseworker
Contact Name: ROSE SCOTT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: rose.scott@waterboards.ca.gov

MOBIL OIL (Continued) **S106175863**

Phone Number: 9513206375

LUST:
Global Id: T0605900543
Status: Completed - Case Closed
Status Date: 12/05/1988

Global Id: T0605900543
Status: Open - Case Begin Date
Status Date: 12/05/1988

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 03UT036
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 04/07/2015
Record ID: RO0003223

Region: ORANGE
Facility Id: 87UT233
Released Substance: Waste oil/Used oil
Date Closed: 12/05/1988
Record ID: RO0001784

LUST REG 8:
Region: 8
County: Orange
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083000687T
Local Case Num: 87UT233
Case Type: Undefined
Substance: Waste Oil
Qty Leaked: 0
Abate Method: Not reported
Cross Street: Not reported
Enf Type: Not reported
Funding: Not reported
How Discovered: Tank Closure
How Stopped: Close Tank
Leak Cause: Unknown
Leak Source: Unknown
Global ID: T0605900543
How Stopped Date: 9/9/9999
Enter Date: Not reported
Date Confirmation of Leak Began: Not reported
Date Preliminary Assessment Began: Not reported
Discover Date: 1/1/1965
Enforcement Date: Not reported
Close Date: 12/5/1988
Date Prelim Assessment Workplan Submitted: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring: Not reported

MOBIL OIL (Continued) **S106175863**

Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.6867008
Longitude:	-117.954075
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	RS
Staff Initials:	KC
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

CERS TANKS:

Site ID:	188470
CERS ID:	T0605900543
Site Name:	MOBIL OIL
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	ROSE SCOTT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9513206375

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	GENIECE HIGGINS - ORANGE COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1241 EAST DYER ROAD SUITE 120
Affiliation City:	SANTA ANA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7144336260

H46 **MOBIL #18-KB5** **HIST CORTESE** **S102433829**
SSE **19002 BROOKHURST** **CERS** **N/A**
1/4-1/2 **HUNTINGTON BEACH, CA 92646**
0.271 mi.
1430 ft. **Site 7 of 8 in cluster H**

Relative:
Higher

Actual:
17 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083000687T

CERS TANKS:
Site ID: 250796
CERS ID: T0605957667
Site Name: MOBIL #18-KB5
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: TAMARA ESCOBEDO - ORANGE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1241 EAST DYER ROAD SUITE 120
Affiliation City: SANTA ANA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7144336251

Affiliation Type Desc: Regional Board Caseworker
Entity Name: ROSE SCOTT - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9513206375

H47 **MOBIL #18-KB5** **LUST** **U003982220**
SSE **19002 BROOKHURST ST** **UST** **N/A**
1/4-1/2 **HUNTINGTON BEACH, CA 92646** **SWEEPS UST**
0.271 mi.
1430 ft. **Site 8 of 8 in cluster H**

Relative:
Higher

Actual:
17 ft.

LUST REG 8:
Region: 8
County: Orange
Regional Board: Santa Ana Region
Facility Status: Preliminary site assessment workplan submitted
Case Number: Not reported
Local Case Num: 03UT036
Case Type: Other ground water affected
Substance: Gasoline
Qty Leaked: 0
Abate Method: Not reported
Cross Street: Not reported
Enf Type: SEL
Funding: Not reported

MOBIL #18-KB5 (Continued) **U003982220**

How Discovered:	Tank Closure
How Stopped:	Close Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605957667
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	7/1/2003
Discover Date:	7/30/2003
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	7/30/2003
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	=
Soil Qualifies:	=
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	0
Longitude:	0
MTBE Date:	6/30/2003
Max MTBE GW:	370000
MTBE Concentration:	0
Max MTBE Soil:	78.2
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	RS
Staff Initials:	KC
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

UST:

Facility ID:	2136
Permitting Agency:	ORANGE COUNTY
Latitude:	33.6878923
Longitude:	-117.9524196

SWEEPS UST:

Status:	Active
Comp Number:	2136
Number:	9
Board Of Equalization:	44-000400
Referral Date:	09-30-92

MOBIL #18-KB5 (Continued) **U003982220**

Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002136-000001
Tank Status:	A
Capacity:	550
Active Date:	Not reported
Tank Use:	PETROLEUM
STG:	P
Content:	Not reported
Number Of Tanks:	4

Status:	Active
Comp Number:	2136
Number:	9
Board Of Equalization:	44-000400
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002136-000003
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	2136
Number:	9
Board Of Equalization:	44-000400
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002136-000004
Tank Status:	A
Capacity:	6000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	2136
Number:	9
Board Of Equalization:	44-000400
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002136-000005
Tank Status:	A
Capacity:	8000

MOBIL #18-KB5 (Continued) **U003982220**

Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

I48 **EXXON #7-3616** **SWEEPS UST** **S101589409**
SSE **19001 BROOKHURST ST** **CA FID UST** **N/A**
1/4-1/2 **HUNTINGTON BEACH, CA 92646** **HIST CORTESE**
0.289 mi.
1528 ft. **Site 1 of 3 in cluster I**

Relative:
Higher

Actual:
17 ft.

SWEEPS UST:
Status: Not reported
Comp Number: 2139
Number: Not reported
Board Of Equalization: 44-000285
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002139-000004
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: 3

Status: Not reported
Comp Number: 2139
Number: Not reported
Board Of Equalization: 44-000285
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002139-000005
Tank Status: Not reported
Capacity: 8000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 2139
Number: Not reported
Board Of Equalization: 44-000285
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002139-000006
Tank Status: Not reported
Capacity: 6000

EXXON #7-3616 (Continued) **S101589409**

Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 2139
Number: 9
Board Of Equalization: 44-000285
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002139-000001
Tank Status: A
Capacity: 1000
Active Date: Not reported
Tank Use: PETROLEUM
STG: P
Content: Not reported
Number Of Tanks: 4

Status: Active
Comp Number: 2139
Number: 9
Board Of Equalization: 44-000285
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002139-000007
Tank Status: A
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 2139
Number: 9
Board Of Equalization: 44-000285
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-002139-000008
Tank Status: A
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

EXXON #7-3616 (Continued) **S101589409**

Status:	Active
Comp Number:	2139
Number:	9
Board Of Equalization:	44-000285
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002139-000009
Tank Status:	A
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	30011002
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7149645988
Mail To:	Not reported
Mailing Address:	CONSTRUCTION & MAINT
Mailing Address 2:	Not reported
Mailing City,St,Zip:	HUNTINGTON BEACH 92646
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083002614T

I49 **GARFIELD CHEVRON** **LUST** **U003433036**
SSE **19001 BROOKHURST** **HIST CORTESE** **N/A**
1/4-1/2 **HUNTINGTON BEACH, CA 92646** **CERS**
0.289 mi.
1528 ft. **Site 2 of 3 in cluster I**

Relative:
Higher

Actual:
17 ft.

LUST:

Lead Agency:	ORANGE COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605920613
Global Id:	T0605920613
Latitude:	33.6865104
Longitude:	-117.9545782
Status:	Completed - Case Closed
Status Date:	01/27/2006

GARFIELD CHEVRON (Continued) **U003433036**

Case Worker: GH
RB Case Number: Not reported
Local Agency: ORANGE COUNTY LOP
File Location: Local Agency
Local Case Number: 01UT013
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0605920613
Contact Type: Local Agency Caseworker
Contact Name: GENIECE HIGGINS
Organization Name: ORANGE COUNTY LOP
Address: 1241 EAST DYER ROAD SUITE 120
City: SANTA ANA
Email: ghiggins@ochca.com
Phone Number: 7144336260

Global Id: T0605920613
Contact Type: Regional Board Caseworker
Contact Name: MIGUEL OVIEDO
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 Main Street, Suite 500
City: RIVERSIDE
Email: miguel.oviedo@waterboards.ca.gov
Phone Number: 9517823238

LUST:
Global Id: T0605920613
Action Type: Other
Date: 06/04/2001
Action: Leak Reported

Global Id: T0605920613
Action Type: RESPONSE
Date: 09/30/2003
Action: Other Report / Document

Global Id: T0605920613
Action Type: ENFORCEMENT
Date: 10/27/2005
Action: LOP Case Closure Summary to RB

Global Id: T0605920613
Action Type: Other
Date: 06/04/2001
Action: Leak Began

Global Id: T0605920613
Action Type: Other
Date: 06/04/2001
Action: Leak Discovery

Global Id: T0605920613
Action Type: ENFORCEMENT
Date: 01/27/2006

GARFIELD CHEVRON (Continued) **U003433036**

Action: Closure/No Further Action Letter

Global Id: T0605920613
Action Type: ENFORCEMENT
Date: 04/22/2005
Action: Staff Letter

Global Id: T0605920613
Action Type: ENFORCEMENT
Date: 05/03/2004
Action: Staff Letter

Global Id: T0605920613
Action Type: ENFORCEMENT
Date: 07/19/2005
Action: Staff Letter

Global Id: T0605920613
Action Type: ENFORCEMENT
Date: 07/23/2003
Action: Staff Letter

Global Id: T0605920613
Action Type: ENFORCEMENT
Date: 03/11/2005
Action: Staff Letter

LUST:
Global Id: T0605920613
Status: Completed - Case Closed
Status Date: 01/27/2006

Global Id: T0605920613
Status: Open - Case Begin Date
Status Date: 06/04/2001

Global Id: T0605920613
Status: Open - Site Assessment
Status Date: 06/04/2001

Global Id: T0605920613
Status: Open - Site Assessment
Status Date: 03/11/2005

Lead Agency: ORANGE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900778
Global Id: T0605900778
Latitude: 33.6867267
Longitude: -117.95434
Status: Completed - Case Closed
Status Date: 10/26/1990
Case Worker: GH
RB Case Number: 083000983T
Local Agency: ORANGE COUNTY LOP
File Location: Local Agency

GARFIELD CHEVRON (Continued) **U003433036**

Local Case Number: 88UT137
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0605900778
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: carl.bernhardt@waterboards.ca.gov
Phone Number: 9517824495

Global Id: T0605900778
Contact Type: Local Agency Caseworker
Contact Name: GENIECE HIGGINS
Organization Name: ORANGE COUNTY LOP
Address: 1241 EAST DYER ROAD SUITE 120
City: SANTA ANA
Email: ghiggins@ochca.com
Phone Number: 7144336260

LUST:
Global Id: T0605900778
Action Type: Other
Date: 06/17/1988
Action: Leak Reported

Global Id: T0605900778
Action Type: Other
Date: 06/17/1988
Action: Leak Discovery

LUST:
Global Id: T0605900778
Status: Completed - Case Closed
Status Date: 10/26/1990

Global Id: T0605900778
Status: Open - Case Begin Date
Status Date: 06/17/1988

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 01UT013
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 01/27/2006
Record ID: RO0001424

LUST REG 8:
Region: 8
County: Orange
Regional Board: Santa Ana Region

GARFIELD CHEVRON (Continued) **U003433036**

Facility Status:	Case Closed
Case Number:	083000983T
Local Case Num:	88UT137
Case Type:	Other ground water affected
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Close Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605900778
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	6/17/1988
Enforcement Date:	Not reported
Close Date:	10/26/1990
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.6867267
Longitude:	-117.95434
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	CAB
Staff Initials:	KC
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

Region:	8
County:	Orange
Regional Board:	Santa Ana Region

GARFIELD CHEVRON (Continued) **U003433036**

Facility Status:	Preliminary site assessment underway
Case Number:	Not reported
Local Case Num:	01UT013
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	SEL
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	New Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605920613
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	6/4/2001
Discover Date:	6/4/2001
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	Not reported
Longitude:	Not reported
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	TME
Staff Initials:	KC
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30

GARFIELD CHEVRON (Continued) **U003433036**

Reg By: LTNKA
Reg Id: 083000983T

CERS TANKS:
Site ID: 218099
CERS ID: T0605900778
Site Name: EXXON USA
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: GENIECE HIGGINS - ORANGE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1241 EAST DYER ROAD SUITE 120
Affiliation City: SANTA ANA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7144336260

Affiliation Type Desc: Regional Board Caseworker
Entity Name: CARL BERNHARDT - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517824495

Site ID: 240428
CERS ID: T0605920613
Site Name: GARFIELD CHEVRON
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: GENIECE HIGGINS - ORANGE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1241 EAST DYER ROAD SUITE 120
Affiliation City: SANTA ANA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7144336260

Affiliation Type Desc: Regional Board Caseworker
Entity Name: MIGUEL OVIEDO - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 Main Street, Suite 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517823238

I50 **EXXON USA** **LUST** **S120834751**
SSE **19001 N BROOKHURST ST** **N/A**
1/4-1/2 **HUNTINGTON BEACH, CA 92646**
0.289 mi.
1528 ft. **Site 3 of 3 in cluster I**

Relative:
Higher

Actual:
17 ft.

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 88UT137
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 10/26/1990
Record ID: RO0002180

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51 **A AND G ELECTROPOLISH** **RCRA-SQG** **1000905600**
ENE **18330 WARD ST** **ENVIROSTOR** **CA0000883322**
1/2-1 **FOUNTAIN VALLEY, CA 92708** **CERS HAZ WASTE**
0.651 mi. **FINDS**
3438 ft. **ECHO**
HAZNET

Relative:
Higher

Actual:
25 ft.

CERS

RCRA-SQG:
Date form received by agency: 12/08/2004
Facility name: A AND G ELECTROPOLISH
Facility address: 18330 WARD ST
FOUNTAIN VALLEY, CA 92708
EPA ID: CA0000883322
Contact: CARLOS A PACHECO
Contact address: 18330 WARD ST
FOUNTAIN VALLEY, CA 92708
Contact country: US
Contact telephone: 714-968-6438
Contact email: Not reported
EPA Region: 09
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: GARY W LAKIN
Owner/operator address: 18330 WARD ST
FOUNTAIN VALLEY, CA 92708
Owner/operator country: Not reported
Owner/operator telephone: 714-968-6438
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: CARLOS PACHECO
Owner/operator address: Not reported
Not reported

A AND G ELECTROPOLISH (Continued) **1000905600**

Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 08/13/2004
Owner/Op end date: Not reported

Owner/operator name: CARLOS PACHECO
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 08/13/2004
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: Yes
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 12/08/2004
Site name: A AND G ELECTROPOLISH
Classification: Large Quantity Generator

Date form received by agency: 10/13/1994
Site name: A AND G ELECTROPOLISH
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON

A AND G ELECTROPOLISH (Continued) **1000905600**

STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 09/18/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: Local

Evaluation date: 08/25/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

ENVIROSTOR:
Facility ID: 71003582
Status: No Further Action
Status Date: 05/07/2015
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: 1
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Robert Senga
Division Branch: Cleanup Cypress
Assembly: 72
Senate: 34
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.69659
Longitude: -117.9454
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA0000883322
Alias Type: EPA Identification Number
Alias Name: 110002620744
Alias Type: EPA (FRS #)
Alias Name: 71003582
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported

A AND G ELECTROPOLISH (Continued) **1000905600**

Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS HAZ WASTE:
Site ID: 383989
CERS ID: 10538935
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 383989
Site Name: A & G ELECTROPOLISH
Violation Date: 03-30-2017
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description: Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes: Returned to compliance on 03/30/2017. The filter cake container was observed stored open. An employee covered the container upon request. CORRECTED
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 383989
Site Name: A & G ELECTROPOLISH
Violation Date: 03-18-2015
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 10/06/2015. The container of filter cake was stored closed and properly labeled. The accumulation start date was initially not on the container. It was properly labeled during the inspection. This violation was corrected during the inspection. No further corrective action is required. Please make sure all containers of hazardous waste are labeled with the required information as soon as the waste begins to accumulate.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 383989

A AND G ELECTROPOLISH (Continued) **1000905600**

Site Name:	A & G ELECTROPOLISH
Violation Date:	04-10-2017
Citation:	22 CCR 45 67450.13(a)(1) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.13(a)(1)
Violation Description:	Failure to prepare a written estimate of the cost of closing each unit which includes the cost that would be incurred for closing a treatment unit when using the owner or operator or generator's own staff and/or personal equipment taking into account any salvage value that may be realized from the sale of wastes, facility structure or equipment, land or other facility assets. This estimate shall be submitted as an attachment to the Certification of Financial Assurance for Permit by Rule and Conditionally Authorized Operations/ Maintenance page(s) of the Unified Program Consolidated Form (x/99)).
Violation Notes:	Returned to compliance on 06/06/2017. Required annual Certification Of Financial Assurance forms that should have been submitted by 3/1/17 have not been submitted. Required documents must be submitted electronically to CERS by 4/24/17.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	03-30-2017
Citation:	22 CCR 45 67450.2(b)(2) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.2(b)(2)
Violation Description:	Failure to submit the signature page for the onsite treatment notification.
Violation Notes:	A complete, valid Professional Engineer certification for the waste and treatment tanks and secondary containment structures was not available. Please have the tank system certified by a California Registered Professional Engineer and provide a copy of the certification to this Agency within 60 days. Title 22 of the California Code of Regulations (22 CCR), Chapter 15, Article 10, Sections 66265.190-202 For more information about requirements, please visit the following link: http://www.occupainfo.com/civicax/filebank/blobdload.aspx?BlobID=14782
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	03-18-2015
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 10/06/2015. VIOLATION- Generator does not comply with Article 10 (Tank Management Standards) 23CCR 66262.34(a)(1), 67450.3(c)(9)(F). The process area containment floor contains 1-1.5? of standing liquid. Previous sampling of this liquid indicated the pH was 0-1. The containment tanks are reportedly emptied every two days. Containment areas and rinse containment tanks are regulated as hazardous waste tanks unless the hazardous waste is removed within 24 hours. This is a recurring violation.
Violation Division:	Orange County Environmental Health
Violation Program:	HW

A AND G ELECTROPOLISH (Continued) **1000905600**

Violation Source: CERS

Site ID: 383989
Site Name: A & G ELECTROPOLISH
Violation Date: 03-30-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 03/30/2017. The filter cake container was observed improperly labeled. An employee affixed a proper label to the container. CORRECTED
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 383989
Site Name: A & G ELECTROPOLISH
Violation Date: 06-26-2017
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 08/02/2017. maintain housekeeping
Violation Division: Fountain Valley Fire
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-18-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for routine hazardous waste inspection. Consent to enter, inspect, and take photographs was given by Haley Lakin. The facility is regulated under the permit by rule tier for treatment of rinse waters that are hazardous due to metal concentration and corrosivity. Four rinses are treated on site. Laboratory results dated 7/11/14 indicate the following: - Alkaline soak rinse: non-hazardous for Cd, Cr, Cu, Pb, Ni, Ag, Zn, and pH - Electropolish rinse: hazardous for chromium, copper, nickel, and pH - Nitric acid rinse: hazardous for pH - DI water rinse: non-hazardous for Cd, Cr, Cu, Pb, Ni, Ag, Zn, and pH Michael Lakin stated that one batch per week is typically treated. Facility documents indicate a batch is approximately 250 gallons. The volume of hazardous wastes being treated appears likely to meet large quantity generator (LQG) volumes of 275 gallons per month for RCRA waste or 3100 gallons non-RCRA waste per year. The facility will be regulated as a [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-10-2017
Violations Found: Yes

A AND G ELECTROPOLISH (Continued) **1000905600**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	Your business is required to submit an Annual Permit Renewal Package Certification Of Financial Assurance for the onsite treatment of hazardous waste. A letter dated January 6, 2017, was mailed to your facility along with instructions on how to electronically submit the required documents by the due date of March 1, 2017. To date, your documents have not been electronically submitted to the California Environmental Reporting System (CERS). Required documents must be submitted to CERS via http://cers.calepa.ca.gov/ by April 24, 2017. Failure to submit the required documents may result in a fine of twenty-five thousand dollars ($25,000) for each day of the violation pursuant to Section 25189 of the California Health and Safety Code (H&SC).
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-06-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site for follow up inspection. Consent to enter, inspect, and take photographs was given by Haley Lakin. The facility has installed a containment tank under the process area to capture the rinse waters from hosing down of parts following processing. The containment is sloped to a low point, which allows for liquid removal. The existing secondary containment that is not covered by the containment tank was observed to be dry or had minimal moisture from the processes conducted above. The containment tank is being used for accumulation of hazardous waste and is subject to Article 10 tank management standards [22CCR 66262.34(a)(1)]. Violation (I045) was corrected during the inspection. Photographs of the new containment structure were taken during the inspection.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-26-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	PBR documents acceptable in CERS, put under review until reviewed for FA.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-30-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Consent to inspect and take photos was granted by the CEO, Gary Lakin. Susan Berg (Supervising Hazardous Materials Specialist) and Haley Lakin (Office Manager) were also present during this inspection. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date. Photos

A AND G ELECTROPOLISH (Continued) **1000905600**

were taken. The following were observed: Filter cake The filter cake container was observed stored open and improperly labeled. An employee covered the container upon request and affixed a proper label to the container. Hazardous waste disposal documents and employee training records dated 6/29/16 were reviewed. The Business Emergency Plan was available for review. A copy of this report will be sent to haley@agelectropolish.com

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-26-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: updated need BEP
Eval Division: Fountain Valley Fire
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-10-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On site for follow up inspection to discuss facility compliance and violations observed on 6/25/14. The following conditions were observed: - Container of oily liquid has been removed from the outside storage area - Manifest for hauling of oily liquid dated 6/30/14 Violations (W009), (W010), and (W013) have been corrected. Violation (W022) was cited on a previous inspection report and remains outstanding. Chemical spillage was observed in the secondary containment on this date. Michael Lakin measured the depth of the liquid in containment to be 1/2-3/4" at two separate locations. A pH measurement of the liquid in containment was taken on 6/26/14, and indicated a pH of 0-1. The secondary containment under the chemical process tanks was observed to be continuously wet. Mr. Lakin stated that the containment floor is not cleaned daily, and could not specify the last time the grates/walkway had been removed to allow for cleaning. Due to the hazardous nature of [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-08-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: INSPECTOR COMMENTS On site for follow up inspection to assess conditions that were cited for violations during the routine inspection on 6/25/14. Consent to enter was given by Haley and Michael Lakin. Observed the process area containment. Tanks to catch rinse waters and process chemicals have been installed under the work platform, within the secondary containment. Mr. Lakin confirmed that the tanks are emptied into the treatment system daily. The waste analysis plan, waste analysis records, written inspection schedule, and closure plan are available for review. The waste analysis records dated 7/24/14 indicate the following: - Pre-grab alkaline soak:

A AND G ELECTROPOLISH (Continued) **1000905600**

	non-hazardous for metals and pH - Electropolish rinse: hazardous for Cr, Cu, Ni, and pH (1.1) - Nitric rinse: hazardous for pH (1.4) - DI water: non-hazardous for metals and pH Violations (X009), (X016), and (X018) have been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Tiered permitting annual notification documents declined in CERS due to: Facility and Unit pages: the facility is regulated for hazardous waste treatment under the PBR tier. It has a PBR unit, not CA (conditionally authorized). Please make the necessary revisions and resubmit. FA information will be reviewed separately.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-08-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for follow up inspection to assess conditions that were cited for violations during the routine inspection on 6/25/14. Consent to enter was given by Haley and Michael Lakin. Observed the process area containment. Tanks to catch rinse waters and process chemicals have been installed under the work platform, within the secondary containment. Mr. Lakin confirmed that the tanks are emptied into the treatment system daily. Violation (W022) has been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-22-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspector Comments: Please be advised that this Agency has reviewed the 2016 Tiered Permitting Financial Assurance Self Certification for this facility. Breakdown of closure costs was not submitted. Breakdown of closure costs must be submitted electronically by 3/4/16.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS

A AND G ELECTROPOLISH (Continued) **1000905600**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-18-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine Permit by Rule inspection. Consent to enter, inspect, and take photographs was given by Haley Lakin. The facility conducts treatment of rinses with aqueous waste with metals and acid under Permit by Rule regulation. There is one treatment unit. There have been no changes to the system and no releases in the previous three years. The tank system is labeled with the required information. The process area containment floor contains 1-1.5? of standing liquid. Previous sampling of this liquid indicated the pH was 0-1. The following documents were available for review: inspection log, waste analysis plan, waste analysis records, closure plan, sewer agency permit and discharge records, Phase 1 Environmental checklist, and PE certification for hazardous waste treatment tanks and secondary containment dated 7/29/11. The PE certification for tanks and containment must be conducted every 5 years.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-30-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine Tiered Permit, Permit by Rule (PBR) inspection. Consent to inspect and take photos was granted by the CEO, Gary Lakin. Susan Berg (Supervising Hazardous Materials Specialist) and Haley Lakin (Office Manager) were also present during this inspection. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date, and no photos were taken. The following were properly labeled: T2 Waste Water Tank T3 Settling Tank T4 Filter Press The following documents were reviewed: Industrial Wastewater Discharge Class I Permit, tank inspection schedule and log, wastewater discharge log, waste analysis plan, annual notification (made via CERS), annual notification acknowledgment letter from this Agency, and the Closure Plan. Hazardous waste disposal documents, employee training records and the Business Emergency Plan were also available for review. A complete, valid [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-17-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine Tiered Permit, Permit by Rule (PBR) inspection. Consent to inspect and take photos was granted by the Mike Lakin. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date, and no photos were taken. The following were properly labeled: T2 Waste Water Tank T3 Settling Tank T4 Filter Press The following documents were reviewed: Industrial Wastewater Discharge Class I Permit, tank inspection schedule and log, wastewater discharge

A AND G ELECTROPOLISH (Continued) **1000905600**

log, waste analysis plan, annual notification (made via CERS), annual notification acknowledgment letter from this Agency, and the Closure Plan. Professional Engineer Site Assessment from the previous year was reviewed as well. Hazardous waste manifests and tank logs were reviewed during the continuation inspection conducted 4/27/18. The weight of hazardous waste generated per month indicate that this facility falls [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-02-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: ADMINISTRATIVE ENFORCEMENT ORDER Administrative Enforcement Order Issued this date. Consent Order signed for the following corrective actions: 11.1 By Thursday, June 30, 2016, Respondent must remove any accumulated hazardous waste liquid from the process area containment floor. Respondent must develop a system to maintain the process floors free of any accumulation of hazardous waste liquid. 11.2 Respondent must properly label all hazardous waste containers, including the filter cake container, with all required elements to include ?Hazardous Waste?, name and address of generator, physical and chemical characteristics of the Hazardous Waste, and the starting accumulation date. At the time of the meeting, Respondent has complied with this requirement. SEP Supplemental Environmental Project (SEP) for modification of the current secondary containment system to prevent accumulation of hazardous waste inside the process area floor and containment. The SEP shall [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-06-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and accepted annual financial assurance form submitted to CERS on 6/5/17. Violation I278 regarding failure to prepare a written estimate of the cost of closing treatment unit cited in the inspection report dated 4/10/17, has been corrected.

Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Enforcement Action:
Site ID: 383989
Site Name: A & G ELECTROPOLISH
Site Address: 18330 WARD ST
Site City: FOUNTAIN VALLEY
Site Zip: 92708
Enf Action Date: 06-02-2015
Enf Action Type: AEO - Unified Program
Enf Action Description: Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes: Fines/Penalties Assessed: $20,000.00. SEPs Value: $15,000.00. A&G ELECTROPOLISH CEO GARY LAKIN 18330 WARD STREET FOUNTAIN VALLEY, CA

A AND G ELECTROPOLISH (Continued) **1000905600**

92708 FA0052258 HW PR0062372 PBR PR0062375.
Enf Action Division: Orange County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 383989
Facility Name: A & G ELECTROPOLISH
Env Int Type Code: HMBP
Program ID: 10538935
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.697160
Longitude: -117.945530

Affiliation:
Affiliation Type Desc: Onsite Treatment Unit Owner Operator
Entity Name: Haley Lakin
Entity Title: Office Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Michael Lakin
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (714) 968-6438

Affiliation Type Desc: Document Preparer
Entity Name: Haley Lakin
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Gary Lakin
Entity Title: Not reported
Affiliation Address: 18330 WARD ST
Affiliation City: FOUNTAIN VALLEY
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92708
Affiliation Phone: Not reported

A AND G ELECTROPOLISH (Continued) **1000905600**

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	18330 WARD STREET
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Haley Lakin
Entity Title:	Office Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Gary Lakin
Entity Title:	Not reported
Affiliation Address:	18330 Ward Street
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6438

Affiliation Type Desc:	Parent Corporation
Entity Name:	A & G ELECTROPOLISH
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Site ID:	383989
CERS ID:	10538935
CERS Description:	Hazardous Waste Onsite Treatment

Violations:

Site ID:	383989
Site Name:	A & G ELECTROPOLISH

A AND G ELECTROPOLISH (Continued) **1000905600**

Violation Date:	03-30-2017
Citation:	22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 03/30/2017. The filter cake container was observed stored open. An employee covered the container upon request. CORRECTED
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	03-18-2015
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 10/06/2015. The container of filter cake was stored closed and properly labeled. The accumulation start date was initially not on the container. It was properly labeled during the inspection. This violation was corrected during the inspection. No further corrective action is required. Please make sure all containers of hazardous waste are labeled with the required information as soon as the waste begins to accumulate.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	04-10-2017
Citation:	22 CCR 45 67450.13(a)(1) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.13(a)(1)
Violation Description:	Failure to prepare a written estimate of the cost of closing each unit which includes the cost that would be incurred for closing a treatment unit when using the owner or operator or generator's own staff and/or personal equipment taking into account any salvage value that may be realized from the sale of wastes, facility structure or equipment, land or other facility assets. This estimate shall be submitted as an attachment to the Certification of Financial Assurance for Permit by Rule and Conditionally Authorized Operations/ Maintenance page(s) of the Unified Program Consolidated Form (x/99)).
Violation Notes:	Returned to compliance on 06/06/2017. Required annual Certification Of Financial Assurance forms that should have been submitted by 3/1/17 have not been submitted. Required documents must be submitted electronically to CERS by 4/24/17.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS

A AND G ELECTROPOLISH (Continued) **1000905600**

Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	03-30-2017
Citation:	22 CCR 45 67450.2(b)(2) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.2(b)(2)
Violation Description:	Failure to submit the signature page for the onsite treatment notification.
Violation Notes:	A complete, valid Professional Engineer certification for the waste and treatment tanks and secondary containment structures was not available. Please have the tank system certified by a California Registered Professional Engineer and provide a copy of the certification to this Agency within 60 days. Title 22 of the California Code of Regulations (22 CCR), Chapter 15, Article 10, Sections 66265.190-202 For more information about requirements, please visit the following link: http://www.occupainfo.com/civicax/filebank/blobdload.aspx?BlobID=14782
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS

Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	03-18-2015
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 10/06/2015. VIOLATION- Generator does not comply with Article 10 (Tank Management Standards) 23CCR 66262.34(a)(1), 67450.3(c)(9)(F). The process area containment floor contains 1-1.5? of standing liquid. Previous sampling of this liquid indicated the pH was 0-1. The containment tanks are reportedly emptied every two days. Containment areas and rinse containment tanks are regulated as hazardous waste tanks unless the hazardous waste is removed within 24 hours. This is a recurring violation.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	03-30-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 03/30/2017. The filter cake container was observed improperly labeled. An employee affixed a proper label to the container. CORRECTED
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	383989
Site Name:	A & G ELECTROPOLISH

A AND G ELECTROPOLISH (Continued) **1000905600**

Violation Date:	06-26-2017
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 08/02/2017. maintain housekeeping
Violation Division:	Fountain Valley Fire
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-18-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine hazardous waste inspection. Consent to enter, inspect, and take photographs was given by Haley Lakin. The facility is regulated under the permit by rule tier for treatment of rinse waters that are hazardous due to metal concentration and corrosivity. Four rinses are treated on site. Laboratory results dated 7/11/14 indicate the following: - Alkaline soak rinse: non-hazardous for Cd, Cr, Cu, Pb, Ni, Ag, Zn, and pH - Electropolish rinse: hazardous for chromium, copper, nickel, and pH - Nitric acid rinse: hazardous for pH - DI water rinse: non-hazardous for Cd, Cr, Cu, Pb, Ni, Ag, Zn, and pH Michael Lakin stated that one batch per week is typically treated. Facility documents indicate a batch is approximately 250 gallons. The volume of hazardous wastes being treated appears likely to meet large quantity generator (LQG) volumes of 275 gallons per month for RCRA waste or 3100 gallons non-RCRA waste per year. The facility will be regulated as a [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-10-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Your business is required to submit an Annual Permit Renewal Package Certification Of Financial Assurance for the onsite treatment of hazardous waste. A letter dated January 6, 2017, was mailed to your facility along with instructions on how to electronically submit the required documents by the due date of March 1, 2017. To date, your documents have not been electronically submitted to the California Environmental Reporting System (CERS). Required documents must be submitted to CERS via http://cers.calepa.ca.gov/ by April 24, 2017. Failure to submit the required documents may result in a fine of twenty-five thousand dollars ($25,000) for each day of the violation pursuant to Section 25189 of the California Health and Safety Code (H&SC).
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	10-06-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency

A AND G ELECTROPOLISH (Continued) **1000905600**

Eval Notes:	On site for follow up inspection. Consent to enter, inspect, and take photographs was given by Haley Lakin. The facility has installed a containment tank under the process area to capture the rinse waters from hosing down of parts following processing. The containment is sloped to a low point, which allows for liquid removal. The existing secondary containment that is not covered by the containment tank was observed to be dry or had minimal moisture from the processes conducted above. The containment tank is being used for accumulation of hazardous waste and is subject to Article 10 tank management standards [22CCR 66262.34(a)(1)]. Violation (I045) was corrected during the inspection. Photographs of the new containment structure were taken during the inspection.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-26-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	PBR documents acceptable in CERS, put under review until reviewed for FA.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-30-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Consent to inspect and take photos was granted by the CEO, Gary Lakin. Susan Berg (Supervising Hazardous Materials Specialist) and Haley Lakin (Office Manager) were also present during this inspection. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date. Photos were taken. The following were observed: Filter cake The filter cake container was observed stored open and improperly labeled. An employee covered the container upon request and affixed a proper label to the container. Hazardous waste disposal documents and employee training records dated 6/29/16 were reviewed. The Business Emergency Plan was available for review. A copy of this report will be sent to haley@agelectropolish.com
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-26-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	updated need BEP
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown

A AND G ELECTROPOLISH (Continued) **1000905600**

Eval Date:	07-10-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site for follow up inspection to discuss facility compliance and violations observed on 6/25/14. The following conditions were observed: - Container of oily liquid has been removed from the outside storage area - Manifest for hauling of oily liquid dated 6/30/14 Violations (W009), (W010), and (W013) have been corrected. Violation (W022) was cited on a previous inspection report and remains outstanding. Chemical spillage was observed in the secondary containment on this date. Michael Lakin measured the depth of the liquid in containment to be 1/2-3/4" at two separate locations. A pH measurement of the liquid in containment was taken on 6/26/14, and indicated a pH of 0-1. The secondary containment under the chemical process tanks was observed to be continuously wet. Mr. Lakin stated that the containment floor is not cleaned daily, and could not specify the last time the grates/walkway had been removed to allow for cleaning. Due to the hazardous nature of [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-08-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for follow up inspection to assess conditions that were cited for violations during the routine inspection on 6/25/14. Consent to enter was given by Haley and Michael Lakin. Observed the process area containment. Tanks to catch rinse waters and process chemicals have been installed under the work platform, within the secondary containment. Mr. Lakin confirmed that the tanks are emptied into the treatment system daily. The waste analysis plan, waste analysis records, written inspection schedule, and closure plan are available for review. The waste analysis records dated 7/24/14 indicate the following: - Pre-grab alkaline soak: non-hazardous for metals and pH - Electropolish rinse: hazardous for Cr, Cu, Ni, and pH (1.1) - Nitric rinse: hazardous for pH (1.4) - DI water: non-hazardous for metals and pH Violations (X009), (X016), and (X018) have been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Tiered permitting annual notification documents declined in CERS due to: Facility and Unit pages: the facility is regulated for hazardous waste treatment under the PBR tier. It has a PBR unit, not CA (conditionally authorized). Please make the necessary revisions and resubmit. FA information will be reviewed separately.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS

A AND G ELECTROPOLISH (Continued) **1000905600**

Eval General Type:	Other/Unknown
Eval Date:	09-08-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for follow up inspection to assess conditions that were cited for violations during the routine inspection on 6/25/14. Consent to enter was given by Haley and Michael Lakin. Observed the process area containment. Tanks to catch rinse waters and process chemicals have been installed under the work platform, within the secondary containment. Mr. Lakin confirmed that the tanks are emptied into the treatment system daily. Violation (W022) has been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-22-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspector Comments: Please be advised that this Agency has reviewed the 2016 Tiered Permitting Financial Assurance Self Certification for this facility. Breakdown of closure costs was not submitted. Breakdown of closure costs must be submitted electronically by 3/4/16.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-18-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine Permit by Rule inspection. Consent to enter, inspect, and take photographs was given by Haley Lakin. The facility conducts treatment of rinses with aqueous waste with metals and acid under Permit by Rule regulation. There is one treatment unit. There have been no changes to the system and no releases in the previous three years. The tank system is labeled with the required information. The process area containment floor contains 1-1.5? of standing liquid. Previous sampling of this liquid indicated the pH was 0-1. The following documents were available for review: inspection log, waste analysis plan, waste analysis records, closure plan, sewer agency permit and discharge records, Phase 1 Environmental checklist, and PE certification for hazardous waste treatment tanks and secondary containment dated 7/29/11. The PE certification for tanks and containment must be conducted every 5 years.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR

A AND G ELECTROPOLISH (Continued) **1000905600**

Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-30-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine Tiered Permit, Permit by Rule (PBR) inspection. Consent to inspect and take photos was granted by the CEO, Gary Lakin. Susan Berg (Supervising Hazardous Materials Specialist) and Haley Lakin (Office Manager) were also present during this inspection. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date, and no photos were taken. The following were properly labeled: T2 Waste Water Tank T3 Settling Tank T4 Filter Press The following documents were reviewed: Industrial Wastewater Discharge Class I Permit, tank inspection schedule and log, wastewater discharge log, waste analysis plan, annual notification (made via CERS), annual notification acknowledgment letter from this Agency, and the Closure Plan. Hazardous waste disposal documents, employee training records and the Business Emergency Plan were also available for review. A complete, valid [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-17-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine Tiered Permit, Permit by Rule (PBR) inspection. Consent to inspect and take photos was granted by the Mike Lakin. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date, and no photos were taken. The following were properly labeled: T2 Waste Water Tank T3 Settling Tank T4 Filter Press The following documents were reviewed: Industrial Wastewater Discharge Class I Permit, tank inspection schedule and log, wastewater discharge log, waste analysis plan, annual notification (made via CERS), annual notification acknowledgment letter from this Agency, and the Closure Plan. Professional Engineer Site Assessment from the previous year was reviewed as well. Hazardous waste manifests and tank logs were reviewed during the continuation inspection conducted 4/27/18. The weight of hazardous waste generated per month indicate that this facility falls [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-02-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	ADMINISTRATIVE ENFORCEMENT ORDER Administrative Enforcement Order Issued this date. Consent Order signed for the following corrective actions: 11.1 By Thursday, June 30, 2016, Respondent must remove any accumulated hazardous waste liquid from the process area containment floor. Respondent must develop a system to maintain the process floors

A AND G ELECTROPOLISH (Continued) **1000905600**

free of any accumulation of hazardous waste liquid. 11.2 Respondent must properly label all hazardous waste containers, including the filter cake container, with all required elements to include ?Hazardous Waste?, name and address of generator, physical and chemical characteristics of the Hazardous Waste, and the starting accumulation date. At the time of the meeting, Respondent has complied with this requirement. SEP Supplemental Environmental Project (SEP) for modification of the current secondary containment system to prevent accumulation of hazardous waste inside the process area floor and containment. The SEP shall [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-06-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and accepted annual financial assurance form submitted to CERS on 6/5/17. Violation I278 regarding failure to prepare a written estimate of the cost of closing treatment unit cited in the inspection report dated 4/10/17, has been corrected.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Enforcement Action:
Site ID: 383989
Site Name: A & G ELECTROPOLISH
Site Address: 18330 WARD ST
Site City: FOUNTAIN VALLEY
Site Zip: 92708
Enf Action Date: 06-02-2015
Enf Action Type: AEO - Unified Program
Enf Action Description: Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes: Fines/Penalties Assessed: $20,000.00. SEPs Value: $15,000.00. A&G ELECTROPOLISH CEO GARY LAKIN 18330 WARD STREET FOUNTAIN VALLEY, CA 92708 FA0052258 HW PR0062372 PBR PR0062375.
Enf Action Division: Orange County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 383989
Facility Name: A & G ELECTROPOLISH
Env Int Type Code: HMBP
Program ID: 10538935
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.697160
Longitude: -117.945530

Affiliation:
Affiliation Type Desc: Onsite Treatment Unit Owner Operator
Entity Name: Haley Lakin
Entity Title: Office Manager

A AND G ELECTROPOLISH (Continued) **1000905600**

Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Michael Lakin
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 968-6438

Affiliation Type Desc:	Document Preparer
Entity Name:	Haley Lakin
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Gary Lakin
Entity Title:	Not reported
Affiliation Address:	18330 WARD ST
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	18330 WARD STREET
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Haley Lakin
Entity Title:	Office Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

A AND G ELECTROPOLISH (Continued) **1000905600**

Affiliation Type Desc:	Legal Owner
Entity Name:	Gary Lakin
Entity Title:	Not reported
Affiliation Address:	18330 Ward Street
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6438

Affiliation Type Desc:	Parent Corporation
Entity Name:	A & G ELECTROPOLISH
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

FINDS:

Registry ID: 110002620744

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000905600
Registry ID:	110002620744
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002620744

A AND G ELECTROPOLISH (Continued) **1000905600**

HAZNET:

Site Name:	A AND G ELECTROPOLISH
Year:	2017
GEPAID:	CA0000883322
Contact:	GARY W LAKIN
Telephone:	7149686438
Mailing Name:	Not reported
Mailing Address:	18330 WARD ST
Mailing City,St,Zip:	FOUNTAIN VALLEY, CA 927080000
Gen County:	Orange
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Tons:	0.019
CA Waste Code:	221-Waste oil and mixed oil
Method:	H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Orange

Site Name:	A AND G ELECTROPOLISH
Year:	2017
GEPAID:	CA0000883322
Contact:	GARY W LAKIN
Telephone:	7149686438
Mailing Name:	Not reported
Mailing Address:	18330 WARD ST
Mailing City,St,Zip:	FOUNTAIN VALLEY, CA 927080000
Gen County:	Orange
TSD EPA ID:	NVT330010000
TSD County:	99
Tons:	0.1875
CA Waste Code:	181-Other inorganic solid waste
Method:	H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Orange

Site Name:	A AND G ELECTROPOLISH
Year:	2016
GEPAID:	CA0000883322
Contact:	GARY W LAKIN
Telephone:	7149686438
Mailing Name:	Not reported
Mailing Address:	18330 WARD ST
Mailing City,St,Zip:	FOUNTAIN VALLEY, CA 927080000
Gen County:	Orange
TSD EPA ID:	NVT330010000
TSD County:	99
Tons:	0.9
CA Waste Code:	181-Other inorganic solid waste
Method:	H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Orange

Site Name:	A AND G ELECTROPOLISH
Year:	2016
GEPAID:	CA0000883322
Contact:	GARY W LAKIN
Telephone:	7149686438

A AND G ELECTROPOLISH (Continued) **1000905600**

Mailing Name: Not reported
Mailing Address: 18330 WARD ST
Mailing City,St,Zip: FOUNTAIN VALLEY, CA 927080000
Gen County: Orange
TSD EPA ID: CAT000646117
TSD County: Kings
Tons: 0.075
CA Waste Code: 181-Other inorganic solid waste
Method: H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Orange

Site Name: A AND G ELECTROPOLISH
Year: 2016
GEPAID: CA0000883322
Contact: GARY W LAKIN
Telephone: 7149686438
Mailing Name: Not reported
Mailing Address: 18330 WARD ST
Mailing City,St,Zip: FOUNTAIN VALLEY, CA 927080000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 0.038
CA Waste Code: 221-Waste oil and mixed oil
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Orange

Click this hyperlink while viewing on your computer to access
19 additional CA_HAZNET: record(s) in the EDR Site Report.

CERS TANKS:
Site ID: 383989
CERS ID: 10538935
Site Name: A & G ELECTROPOLISH
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 383989
Site Name: A & G ELECTROPOLISH
Violation Date: 03-30-2017
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description: Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes: Returned to compliance on 03/30/2017. The filter cake container was observed stored open. An employee covered the container upon request. CORRECTED
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

A AND G ELECTROPOLISH (Continued) **1000905600**

Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	03-18-2015
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 10/06/2015. The container of filter cake was stored closed and properly labeled. The accumulation start date was initially not on the container. It was properly labeled during the inspection. This violation was corrected during the inspection. No further corrective action is required. Please make sure all containers of hazardous waste are labeled with the required information as soon as the waste begins to accumulate.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	04-10-2017
Citation:	22 CCR 45 67450.13(a)(1) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.13(a)(1)
Violation Description:	Failure to prepare a written estimate of the cost of closing each unit which includes the cost that would be incurred for closing a treatment unit when using the owner or operator or generator's own staff and/or personal equipment taking into account any salvage value that may be realized from the sale of wastes, facility structure or equipment, land or other facility assets. This estimate shall be submitted as an attachment to the Certification of Financial Assurance for Permit by Rule and Conditionally Authorized Operations/ Maintenance page(s) of the Unified Program Consolidated Form (x/99)).
Violation Notes:	Returned to compliance on 06/06/2017. Required annual Certification Of Financial Assurance forms that should have been submitted by 3/1/17 have not been submitted. Required documents must be submitted electronically to CERS by 4/24/17.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS

Site ID:	383989
Site Name:	A & G ELECTROPOLISH
Violation Date:	03-30-2017
Citation:	22 CCR 45 67450.2(b)(2) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.2(b)(2)
Violation Description:	Failure to submit the signature page for the onsite treatment notification.
Violation Notes:	A complete, valid Professional Engineer certification for the waste and treatment tanks and secondary containment structures was not available. Please have the tank system certified by a California Registered Professional Engineer and provide a copy of the certification to this Agency within 60 days. Title 22 of the California Code of Regulations (22 CCR), Chapter 15, Article 10, Sections 66265.190-202 For more information about requirements, please visit the following link:

A AND G ELECTROPOLISH (Continued) **1000905600**

http://www.occupainfo.com/civicax/filebank/blobdload.aspx?BlobID=14782
Violation Division: Orange County Environmental Health
Violation Program: PBR
Violation Source: CERS

Site ID: 383989
Site Name: A & G ELECTROPOLISH
Violation Date: 03-18-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 10/06/2015. VIOLATION- Generator does not comply with Article 10 (Tank Management Standards) 23CCR 66262.34(a)(1), 67450.3(c)(9)(F). The process area containment floor contains 1-1.5? of standing liquid. Previous sampling of this liquid indicated the pH was 0-1. The containment tanks are reportedly emptied every two days. Containment areas and rinse containment tanks are regulated as hazardous waste tanks unless the hazardous waste is removed within 24 hours. This is a recurring violation.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 383989
Site Name: A & G ELECTROPOLISH
Violation Date: 03-30-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 03/30/2017. The filter cake container was observed improperly labeled. An employee affixed a proper label to the container. CORRECTED
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 383989
Site Name: A & G ELECTROPOLISH
Violation Date: 06-26-2017
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 08/02/2017. maintain housekeeping
Violation Division: Fountain Valley Fire
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-18-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for routine hazardous waste inspection. Consent to enter,

A AND G ELECTROPOLISH (Continued) **1000905600**

inspect, and take photographs was given by Haley Lakin. The facility is regulated under the permit by rule tier for treatment of rinse waters that are hazardous due to metal concentration and corrosivity. Four rinses are treated on site. Laboratory results dated 7/11/14 indicate the following: - Alkaline soak rinse: non-hazardous for Cd, Cr, Cu, Pb, Ni, Ag, Zn, and pH - Electropolish rinse: hazardous for chromium, copper, nickel, and pH - Nitric acid rinse: hazardous for pH - DI water rinse: non-hazardous for Cd, Cr, Cu, Pb, Ni, Ag, Zn, and pH Michael Lakin stated that one batch per week is typically treated. Facility documents indicate a batch is approximately 250 gallons. The volume of hazardous wastes being treated appears likely to meet large quantity generator (LQG) volumes of 275 gallons per month for RCRA waste or 3100 gallons non-RCRA waste per year. The facility will be regulated as a [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-10-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Your business is required to submit an Annual Permit Renewal Package Certification Of Financial Assurance for the onsite treatment of hazardous waste. A letter dated January 6, 2017, was mailed to your facility along with instructions on how to electronically submit the required documents by the due date of March 1, 2017. To date, your documents have not been electronically submitted to the California Environmental Reporting System (CERS). Required documents must be submitted to CERS via http://cers.calepa.ca.gov/ by April 24, 2017. Failure to submit the required documents may result in a fine of twenty-five thousand dollars ($25,000) for each day of the violation pursuant to Section 25189 of the California Health and Safety Code (H&SC).
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-06-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On site for follow up inspection. Consent to enter, inspect, and take photographs was given by Haley Lakin. The facility has installed a containment tank under the process area to capture the rinse waters from hosing down of parts following processing. The containment is sloped to a low point, which allows for liquid removal. The existing secondary containment that is not covered by the containment tank was observed to be dry or had minimal moisture from the processes conducted above. The containment tank is being used for accumulation of hazardous waste and is subject to Article 10 tank management standards [22CCR 66262.34(a)(1)]. Violation (I045) was corrected during the inspection. Photographs of the new containment structure were taken during the inspection.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

A AND G ELECTROPOLISH (Continued) **1000905600**

Eval General Type:	Other/Unknown
Eval Date:	02-26-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	PBR documents acceptable in CERS, put under review until reviewed for FA.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-30-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Consent to inspect and take photos was granted by the CEO, Gary Lakin. Susan Berg (Supervising Hazardous Materials Specialist) and Haley Lakin (Office Manager) were also present during this inspection. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date. Photos were taken. The following were observed: Filter cake The filter cake container was observed stored open and improperly labeled. An employee covered the container upon request and affixed a proper label to the container. Hazardous waste disposal documents and employee training records dated 6/29/16 were reviewed. The Business Emergency Plan was available for review. A copy of this report will be sent to haley@agelectropolish.com
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-26-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	updated need BEP
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-10-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site for follow up inspection to discuss facility compliance and violations observed on 6/25/14. The following conditions were observed: - Container of oily liquid has been removed from the outside storage area - Manifest for hauling of oily liquid dated 6/30/14 Violations (W009), (W010), and (W013) have been corrected. Violation (W022) was cited on a previous inspection report and remains outstanding. Chemical spillage was observed in the secondary containment on this date. Michael Lakin measured the depth of the liquid in containment to be 1/2-3/4" at two separate locations. A pH measurement of the liquid in containment was taken on 6/26/14, and indicated a pH of 0-1. The secondary containment under the chemical process tanks was observed to be continuously wet. Mr. Lakin stated that the containment floor is not cleaned daily, and could not specify

A AND G ELECTROPOLISH (Continued) **1000905600**

	the last time the grates/walkway had been removed to allow for cleaning. Due to the hazardous nature of [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-08-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for follow up inspection to assess conditions that were cited for violations during the routine inspection on 6/25/14. Consent to enter was given by Haley and Michael Lakin. Observed the process area containment. Tanks to catch rinse waters and process chemicals have been installed under the work platform, within the secondary containment. Mr. Lakin confirmed that the tanks are emptied into the treatment system daily. The waste analysis plan, waste analysis records, written inspection schedule, and closure plan are available for review. The waste analysis records dated 7/24/14 indicate the following: - Pre-grab alkaline soak: non-hazardous for metals and pH - Electropolish rinse: hazardous for Cr, Cu, Ni, and pH (1.1) - Nitric rinse: hazardous for pH (1.4) - DI water: non-hazardous for metals and pH Violations (X009), (X016), and (X018) have been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Tiered permitting annual notification documents declined in CERS due to: Facility and Unit pages: the facility is regulated for hazardous waste treatment under the PBR tier. It has a PBR unit, not CA (conditionally authorized). Please make the necessary revisions and resubmit. FA information will be reviewed separately.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-08-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for follow up inspection to assess conditions that were cited for violations during the routine inspection on 6/25/14. Consent to enter was given by Haley and Michael Lakin. Observed the process area containment. Tanks to catch rinse waters and process chemicals have been installed under the work platform, within the secondary containment. Mr. Lakin confirmed that the tanks are emptied into the treatment system daily. Violation (W022) has been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

A AND G ELECTROPOLISH (Continued) **1000905600**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fountain Valley Fire
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-22-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspector Comments: Please be advised that this Agency has reviewed the 2016 Tiered Permitting Financial Assurance Self Certification for this facility. Breakdown of closure costs was not submitted. Breakdown of closure costs must be submitted electronically by 3/4/16.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-18-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine Permit by Rule inspection. Consent to enter, inspect, and take photographs was given by Haley Lakin. The facility conducts treatment of rinses with aqueous waste with metals and acid under Permit by Rule regulation. There is one treatment unit. There have been no changes to the system and no releases in the previous three years. The tank system is labeled with the required information. The process area containment floor contains 1-1.5? of standing liquid. Previous sampling of this liquid indicated the pH was 0-1. The following documents were available for review: inspection log, waste analysis plan, waste analysis records, closure plan, sewer agency permit and discharge records, Phase 1 Environmental checklist, and PE certification for hazardous waste treatment tanks and secondary containment dated 7/29/11. The PE certification for tanks and containment must be conducted every 5 years.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-30-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine Tiered Permit, Permit by Rule (PBR) inspection. Consent to inspect and take photos was granted by the CEO, Gary Lakin. Susan Berg (Supervising Hazardous Materials Specialist) and Haley Lakin (Office Manager) were also present during this inspection. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date, and no photos were taken. The following were properly labeled: T2 Waste Water Tank T3 Settling Tank T4 Filter Press The following documents were reviewed: Industrial Wastewater Discharge Class I Permit, tank inspection schedule and log, wastewater discharge

A AND G ELECTROPOLISH (Continued) **1000905600**

log, waste analysis plan, annual notification (made via CERS), annual notification acknowledgment letter from this Agency, and the Closure Plan. Hazardous waste disposal documents, employee training records and the Business Emergency Plan were also available for review. A complete, valid [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Onsite to conduct a routine Tiered Permit, Permit by Rule (PBR) inspection. Consent to inspect and take photos was granted by the Mike Lakin. A walk-through of the facility, parking lot and dumpster enclosure was conducted. There was no hazardous waste observed in the dumpster on this date, and no photos were taken. The following were properly labeled: T2 Waste Water Tank T3 Settling Tank T4 Filter Press The following documents were reviewed: Industrial Wastewater Discharge Class I Permit, tank inspection schedule and log, wastewater discharge log, waste analysis plan, annual notification (made via CERS), annual notification acknowledgment letter from this Agency, and the Closure Plan. Professional Engineer Site Assessment from the previous year was reviewed as well. Hazardous waste manifests and tank logs were reviewed during the continuation inspection conducted 4/27/18. The weight of hazardous waste generated per month indicate that this facility falls [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-02-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: ADMINISTRATIVE ENFORCEMENT ORDER Administrative Enforcement Order Issued this date. Consent Order signed for the following corrective actions: 11.1 By Thursday, June 30, 2016, Respondent must remove any accumulated hazardous waste liquid from the process area containment floor. Respondent must develop a system to maintain the process floors free of any accumulation of hazardous waste liquid. 11.2 Respondent must properly label all hazardous waste containers, including the filter cake container, with all required elements to include ?Hazardous Waste?, name and address of generator, physical and chemical characteristics of the Hazardous Waste, and the starting accumulation date. At the time of the meeting, Respondent has complied with this requirement. SEP Supplemental Environmental Project (SEP) for modification of the current secondary containment system to prevent accumulation of hazardous waste inside the process area floor and containment. The SEP shall [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-06-2017

A AND G ELECTROPOLISH (Continued) **1000905600**

Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and accepted annual financial assurance form submitted to CERS on 6/5/17. Violation I278 regarding failure to prepare a written estimate of the cost of closing treatment unit cited in the inspection report dated 4/10/17, has been corrected.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Enforcement Action:
Site ID: 383989
Site Name: A & G ELECTROPOLISH
Site Address: 18330 WARD ST
Site City: FOUNTAIN VALLEY
Site Zip: 92708
Enf Action Date: 06-02-2015
Enf Action Type: AEO - Unified Program
Enf Action Description: Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes: Fines/Penalties Assessed: $20,000.00. SEPs Value: $15,000.00. A&G ELECTROPOLISH CEO GARY LAKIN 18330 WARD STREET FOUNTAIN VALLEY, CA 92708 FA0052258 HW PR0062372 PBR PR0062375.
Enf Action Division: Orange County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 383989
Facility Name: A & G ELECTROPOLISH
Env Int Type Code: HMBP
Program ID: 10538935
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.697160
Longitude: -117.945530

Affiliation:
Affiliation Type Desc: Onsite Treatment Unit Owner Operator
Entity Name: Haley Lakin
Entity Title: Office Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Michael Lakin
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (714) 968-6438

A AND G ELECTROPOLISH (Continued) **1000905600**

Affiliation Type Desc:	Document Preparer
Entity Name:	Haley Lakin
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Gary Lakin
Entity Title:	Not reported
Affiliation Address:	18330 WARD ST
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	18330 WARD STREET
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92708
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Haley Lakin
Entity Title:	Office Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Gary Lakin
Entity Title:	Not reported
Affiliation Address:	18330 Ward Street
Affiliation City:	Fountain Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92708
Affiliation Phone:	(714) 968-6438

Affiliation Type Desc:	Parent Corporation
Entity Name:	A & G ELECTROPOLISH
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

A AND G ELECTROPOLISH (Continued) **1000905600**

Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6000

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52 **CIBA-GEIGY CORP** **HWP** **S109467273**
ENE **18435 BANDILIER CIRCLE** **CERS** **N/A**
1/2-1 **FOUNTAIN VALLEY, CA 92708**
0.868 mi.
4581 ft.

Relative:
Higher

Actual:
26 ft.

HWP:
EPA Id: CAD094718590
Cleanup Status: PROTECTIVE FILER
Latitude: 33.69505
Longitude: -117.9407
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: Not reported
Assembly District: 72
Senate District: 34
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:
EPA Id: CAD094718590
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: Protective Filer Status - PROTECTIVE FILER (APPROVED)
Actual Date: 11/01/1990

EPA Id: CAD094718590
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: Protective Filer Status - PROTECTIVE FILER (RECEIVED)
Actual Date: 09/20/1990

CERS TANKS:
Site ID: 253062
CERS ID: CAD094718590
Site Name: CIBA-GEIGY CORP
CERS Description: Hazardous Waste

Affiliation:
Affiliation Type Desc: Facility Contact
Entity Name: UNDELIVERABLE SURVEY 2-20-95LH

CIBA-GEIGY CORP (Continued) **S109467273**

Entity Title:	Not reported
Affiliation Address:	18435 BANDILIRE CIRCLE
Affiliation City:	FOUNTAIN VALLEY
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	927080000
Affiliation Phone:	7149642731
Affiliation Type Desc:	Facility Owner
Entity Name:	CLOSED COMPOSITE MATERIALS DEP
Entity Title:	Not reported
Affiliation Address:	LTR 10/15/87
Affiliation City:	--
Affiliation State:	99
Affiliation Country:	Not reported
Affiliation Zip:	--
Affiliation Phone:	0000000000

53
WSW
1/2-1
0.920 mi.
4856 ft.

MAX'S CLEANERS (MAGNOLIA CENTER) **ENVIROSTOR** **S106797633**
19171 MAGNOLIA STREET, SUITE 5 **N/A**
HUNTINGTON BEACH, CA 92646

Relative:
Lower

Actual:
12 ft.

ENVIROSTOR:

Facility ID:	30720016
Status:	Refer: 1248 Local Agency
Status Date:	07/26/2001
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0
NPL:	NO
Regulatory Agencies:	ORANGE COUNTY
Lead Agency:	ORANGE COUNTY
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Cypress
Assembly:	74
Senate:	37
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not Applicable
Latitude:	33.68394
Longitude:	-117.9725
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	30720016
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

MAX'S CLEANERS (MAGNOLIA CENTER) (Continued) **S106797633**

Completed Document Type:	SB 1248 Notification
Completed Date:	06/05/2001
Comments:	SB 1248 Orange County
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Count: 5 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
HUNTINGTON BEACH	S121698630	PRIME CLEANERS,HOOSHANG MOVAFAGHI;	18225 BROOKHURST AVE		DRYCLEANERS
HUNTINGTON BEACH	S121695586	KARE MORE CLEANERS	21501-A BROOKHURST	92646	DRYCLEANERS
HUNTINGTON BEACH	S121695698	KAREMORE CLEANERS	21501-A BROOKHURST ST	92646	DRYCLEANERS
HUNTINGTON BEACH	S121696111	KAREMORE CLEANERS	21501-A BROOKHURST ST	92646	DRYCLEANERS
HUNTINGTON BEACH	S121694427	KAREMORE CLEANERS, VICTOR LUONG, D	21501 BROOKHURST A & B	92646	DRYCLEANERS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/22/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 41

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 21

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/03/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 34
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 04/15/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/04/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/11/2018
Number of Days to Update: 29

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 32

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 27

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 49

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 10/24/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 40

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 03/07/2019
Date Data Arrived at EDR: 04/03/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 50

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/07/2019
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/22/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/24/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2019
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 34
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/07/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/07/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/02/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 51

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 30

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/27/2018
Date Data Arrived at EDR: 02/27/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 33

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/27/2019
Date Data Arrived at EDR: 03/28/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 34

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/15/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 10

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 06/05/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/07/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/21/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 39
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 04/18/2019
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 11
Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 01/23/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 34
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 03/19/2019
Date Data Arrived at EDR: 03/22/2019
Date Made Active in Reports: 04/09/2019
Number of Days to Update: 18

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/23/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 03/01/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 35

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Annually

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/22/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 11/02/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 41

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/10/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 41

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/15/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 14

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 50

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 51

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 23
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/05/2019
Number of Days to Update: 31
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/18/2019
Date Data Arrived at EDR: 03/19/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 41
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 59

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 58

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 27

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/14/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 17

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 29

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/10/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/20/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 41

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 29

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/16/2019
Date Data Arrived at EDR: 05/17/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 13

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/12/2019
Number of Days to Update: 28

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/17/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 12/19/2018
Date Data Arrived at EDR: 01/10/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 56

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/14/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/16/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/17/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/16/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Semi-Annually

UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Annually

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 28

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 13

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/19/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 50

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 34

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/23/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 02/05/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 04/01/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 9

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 31
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/07/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/12/2019
Number of Days to Update: 42
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 01/14/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46
Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/12/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 18
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/29/2019
Date Data Arrived at EDR: 01/31/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 36
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 01/04/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 60

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 67

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 33

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing
A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 03/06/2019
Date Data Arrived at EDR: 03/06/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 54
Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

SAN DIEGO CO. SAM: Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/15/2019
Date Made Active in Reports: 03/14/2019
Number of Days to Update: 27

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 15

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34
Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90
Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51
Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 53
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 27
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 03/18/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 33

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 42

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 35

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Annually

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 35
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/26/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 21
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/03/2019
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 13
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 22
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/04/2019
Number of Days to Update: 20
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/10/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/30/2019
Date Made Active in Reports: 02/14/2019
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/01/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/17/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

BROOKFIELD LA- FOUNTAIN VALLEY
9790 FINCH AVENUE
FOUNTAIN VALLEY, CA 92708

TARGET PROPERTY COORDINATES

Latitude (North):	33.691358 - 33° 41' 28.89''
Longitude (West):	117.9569 - 117° 57' 24.84''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	411310.5
UTM Y (Meters):	3728152.5
Elevation:	13 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640950 NEWPORT BEACH, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

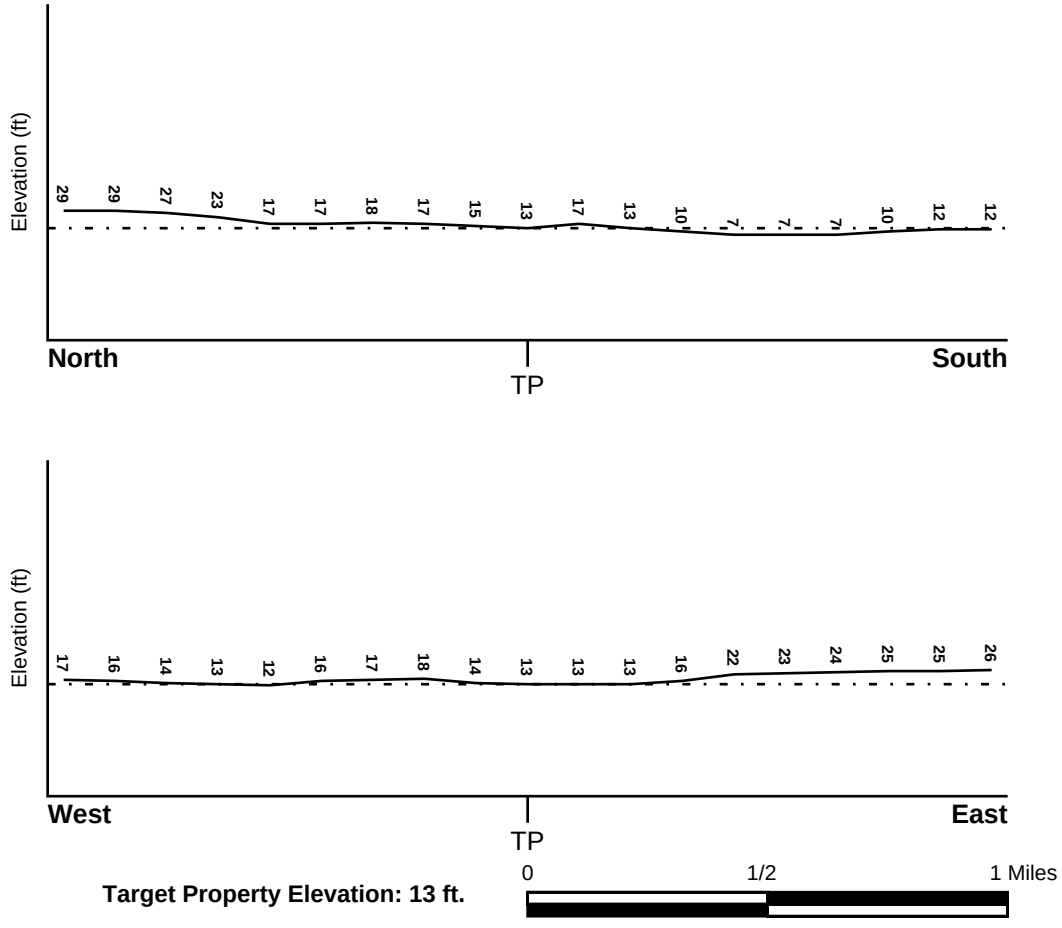
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 13 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06059C0254J	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06059C0253J	FEMA FIRM Flood data
06059C0261J	FEMA FIRM Flood data
06059C0262J	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
COSTA MESA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
A2	1/8 - 1/4 Mile NE	ENE
A3	1/4 - 1/2 Mile NE	Not Reported
B4	1/4 - 1/2 Mile SSE	Not Reported
B8	1/4 - 1/2 Mile SSE	SSW
B9	1/4 - 1/2 Mile SSE	SSW
H38	1/2 - 1 Mile NNE	SW

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
45	1/2 - 1 Mile ESE	NW,NWW,SW,SS
J46	1/2 - 1 Mile North	SW
M62	1/2 - 1 Mile WSW	S
M63	1/2 - 1 Mile WSW	S
O66	1/2 - 1 Mile WSW	SW
O69	1/2 - 1 Mile WSW	Not Reported
O70	1/2 - 1 Mile WSW	Varies
1G	1/2 - 1 Mile North	SW
2G	1/2 - 1 Mile NNE	SW
3G	1/4 - 1/2 Mile NE	Not Reported
4G	1/8 - 1/4 Mile NE	ENE
5G	1/4 - 1/2 Mile SSE	Not Reported
6G	1/2 - 1 Mile WSW	SW
7G	1/4 - 1/2 Mile SSE	SSW
8G	1/4 - 1/2 Mile SSE	SSW
9G	1/2 - 1 Mile WSW	S
10G	1/2 - 1 Mile WSW	S
11G	1/2 - 1 Mile WSW	Not Reported
12G	1/2 - 1 Mile WSW	Varies
13G	1/2 - 1 Mile ESE	NW,NWW,SW,SS

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

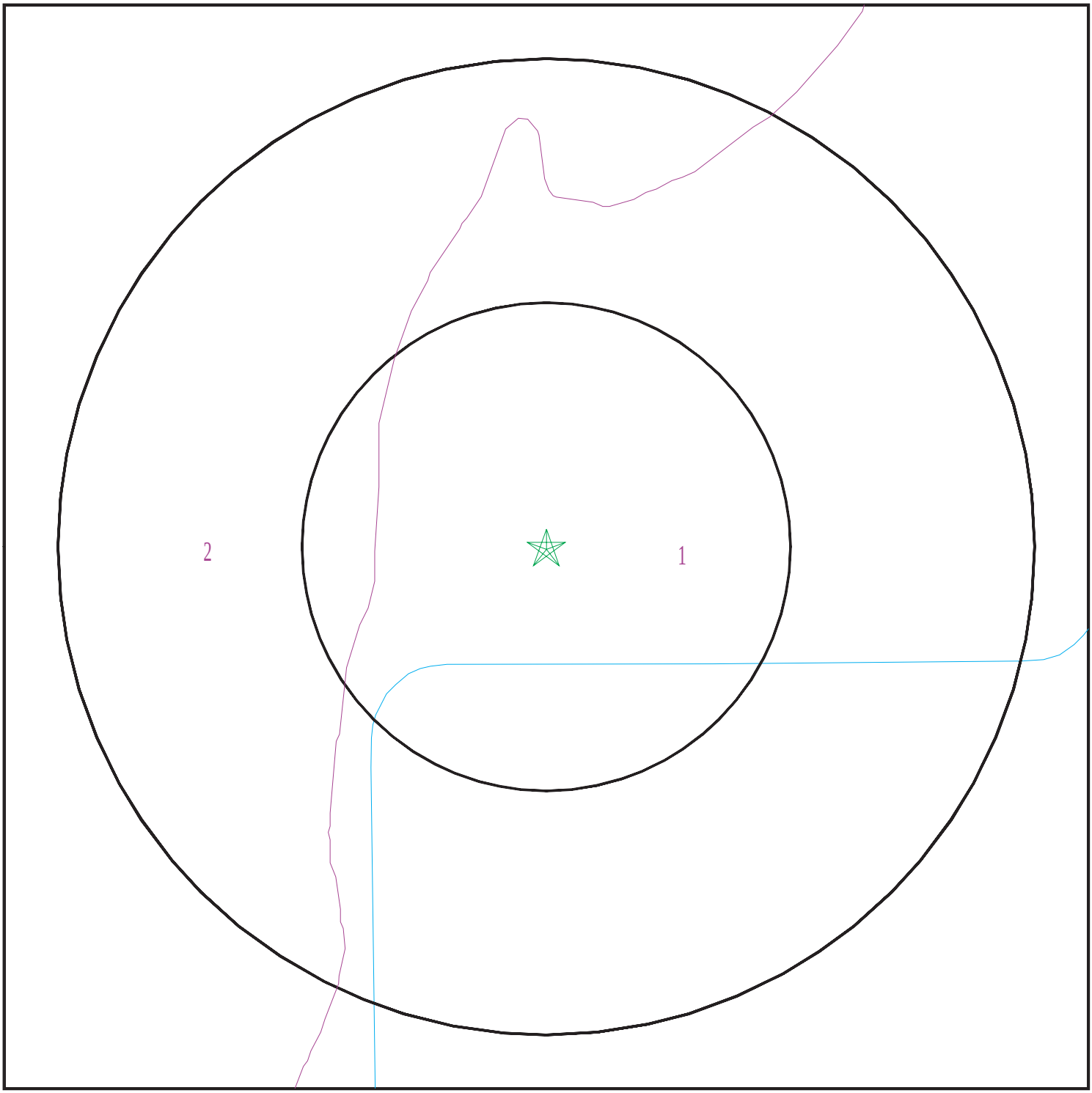
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5682876.2s



SITE NAME:	Brookfield LA- Fountain Valley	CLIENT:	Leighton and Associates, Inc.
ADDRESS:	9790 Finch Avenue Fountain Valley CA 92708	CONTACT:	Sabrina Gonzalez
LAT/LONG:	33.691358 / 117.9569	INQUIRY #:	5682876.2s
		DATE:	June 13, 2019 12:09 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: BOLSA

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	silt loam	Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9
2	11 inches	68 inches	silty clay loam	Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9

Soil Map ID: 2

Soil Component Name: HUENEME

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	27 inches	fine sandy loam	Not reported	Not reported	Max: 42 Min: 14	Max: 8.4 Min: 7.4
2	27 inches	59 inches	stratified sand to silt loam	Not reported	Not reported	Max: 42 Min: 14	Max: 8.4 Min: 7.4

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000136827	1/8 - 1/4 Mile NNW
5	USGS40000136777	1/4 - 1/2 Mile WSW
6	USGS40000136821	1/4 - 1/2 Mile WNW
B7	USGS40000136752	1/4 - 1/2 Mile SSE
B10	USGS40000136764	1/4 - 1/2 Mile SE
C11	USGS40000136798	1/4 - 1/2 Mile West
C12	USGS40000136799	1/4 - 1/2 Mile West
C13	USGS40000136800	1/4 - 1/2 Mile West
14	USGS40000136868	1/4 - 1/2 Mile NNE
15	USGS40000136735	1/4 - 1/2 Mile SSE
16	USGS40000136892	1/4 - 1/2 Mile North
D17	USGS40000136741	1/4 - 1/2 Mile SW
18	USGS40000136770	1/4 - 1/2 Mile ESE
D19	USGS40000136739	1/4 - 1/2 Mile SW
20	USGS40000136847	1/4 - 1/2 Mile ENE
21	USGS40000136894	1/2 - 1 Mile NNE
E22	USGS40000136919	1/2 - 1 Mile NNE
23	USGS40000136889	1/2 - 1 Mile NW
24	USGS40000136908	1/2 - 1 Mile NNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
E26	USGS40000136939	1/2 - 1 Mile NNE
G27	USGS40000136833	1/2 - 1 Mile ENE
F28	USGS40000136751	1/2 - 1 Mile ESE
29	USGS40000136720	1/2 - 1 Mile SW
F30	USGS40000136755	1/2 - 1 Mile ESE
G31	USGS40000136826	1/2 - 1 Mile ENE
H32	USGS40000136969	1/2 - 1 Mile NNE
H33	USGS40000136998	1/2 - 1 Mile North
H34	USGS40000136999	1/2 - 1 Mile North
35	USGS40000136808	1/2 - 1 Mile West
H36	USGS40000136997	1/2 - 1 Mile NNE
37	USGS40000136957	1/2 - 1 Mile NNW
40	USGS40000136915	1/2 - 1 Mile NE
41	USGS40000137035	1/2 - 1 Mile North
J43	USGS40000137034	1/2 - 1 Mile North
I47	USGS40000136750	1/2 - 1 Mile ESE
K48	USGS40000136769	1/2 - 1 Mile ESE
L49	USGS40000136672	1/2 - 1 Mile South
M51	USGS40000136742	1/2 - 1 Mile WSW
53	USGS40000137047	1/2 - 1 Mile NNE
N57	USGS40000137031	1/2 - 1 Mile NNW
L58	USGS40000136665	1/2 - 1 Mile South
59	USGS40000136825	1/2 - 1 Mile East
60	USGS40000136666	1/2 - 1 Mile SSW
61	USGS40000137048	1/2 - 1 Mile NNW
64	USGS40000137061	1/2 - 1 Mile NNW
65	USGS40000137014	1/2 - 1 Mile NE
N67	USGS40000137040	1/2 - 1 Mile NNW
68	USGS40000136952	1/2 - 1 Mile NE
71	USGS40000136658	1/2 - 1 Mile SSW
P72	USGS40000136652	1/2 - 1 Mile South
P73	USGS40000136651	1/2 - 1 Mile South
Q74	USGS40000136667	1/2 - 1 Mile SSW
S76	USGS40000136916	1/2 - 1 Mile NW
Q77	USGS40000136659	1/2 - 1 Mile SSW
78	USGS40000137013	1/2 - 1 Mile NE
R79	USGS40000136731	1/2 - 1 Mile ESE
80	USGS40000137091	1/2 - 1 Mile NNW
84	USGS40000137101	1/2 - 1 Mile NNE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

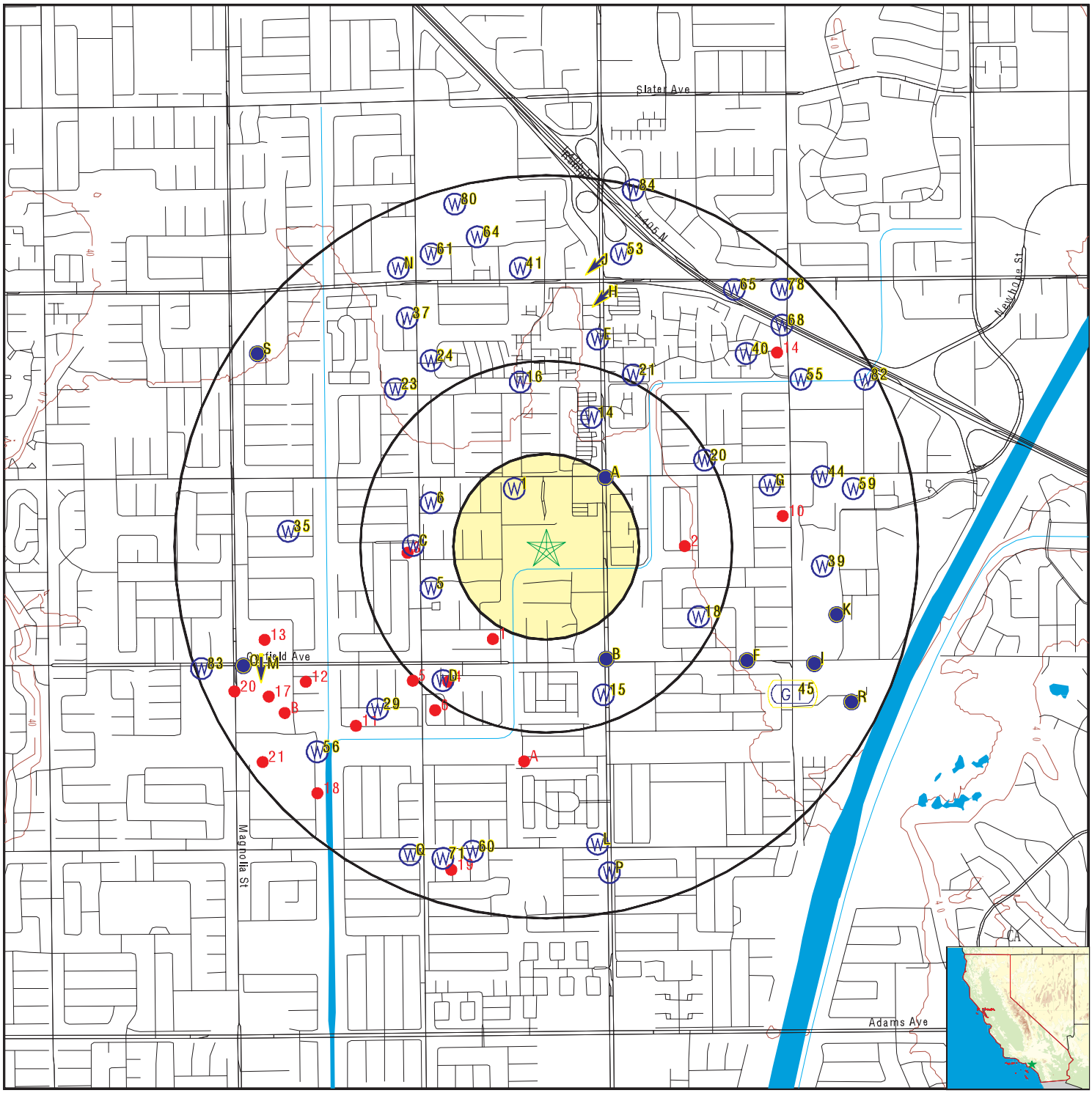
MAP ID	WELL ID	LOCATION FROM TP
F25	CADWR8000004904	1/2 - 1 Mile ESE
39	CADWR8000004916	1/2 - 1 Mile East
I42	CADWR8000004900	1/2 - 1 Mile ESE
44	CADWR8000004931	1/2 - 1 Mile ENE
I50	CADWR8000004903	1/2 - 1 Mile ESE
I52	CADWR8000004899	1/2 - 1 Mile ESE
K54	CADWR8000004911	1/2 - 1 Mile ESE
55	CADWR8000004956	1/2 - 1 Mile ENE
56	7091	1/2 - 1 Mile SW
R75	CADWR8000004888	1/2 - 1 Mile ESE
S81	CADWR8000004961	1/2 - 1 Mile WNW
82	CADWR8000004955	1/2 - 1 Mile ENE
83	CADWR8000004894	1/2 - 1 Mile WSW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CAOG13000006288	1/4 - 1/2 Mile SSW
2	CAOG13000006232	1/4 - 1/2 Mile East
3	CAOG13000005954	1/4 - 1/2 Mile West
4	CAOG13000216236	1/4 - 1/2 Mile SW
5	CAOG13000216702	1/2 - 1 Mile SW
6	CAOG13000216694	1/2 - 1 Mile SW
A7	CAOG13000216692	1/2 - 1 Mile South
A8	CAOG13000216695	1/2 - 1 Mile SSW
A9	CAOG13000216696	1/2 - 1 Mile South
10	CAOG13000006028	1/2 - 1 Mile East
11	CAOG13000216697	1/2 - 1 Mile SW
12	CAOG13000216700	1/2 - 1 Mile WSW
13	CAOG13000006269	1/2 - 1 Mile WSW
14	CAOG13000006088	1/2 - 1 Mile NE
B15	CAOG13000216699	1/2 - 1 Mile WSW
B16	CAOG13000216703	1/2 - 1 Mile WSW
17	CAOG13000216701	1/2 - 1 Mile WSW
18	CAOG13000216693	1/2 - 1 Mile SW
19	CAOG13000006093	1/2 - 1 Mile SSW
20	CAOG13000006261	1/2 - 1 Mile WSW
21	CAOG13000216698	1/2 - 1 Mile SW

PHYSICAL SETTING SOURCE MAP - 5682876.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Brookfield LA- Fountain Valley	CLIENT:	Leighton and Associates, Inc.
ADDRESS:	9790 Finch Avenue Fountain Valley CA 92708	CONTACT:	Sabrina Gonzalez
LAT/LONG:	33.691358 / 117.9569	INQUIRY #:	5682876.2s
		DATE:	June 13, 2019 12:09 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number

1
NNW
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000136827**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31J001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

A2
NE
1/8 - 1/4 Mile
Higher

Site ID:	083000824T
Groundwater Flow:	ENE
Shallow Water Depth:	8.94
Deep Water Depth:	14.02
Average Water Depth:	Not Reported
Date:	04/1999

AQUIFLOW **51921**

A3
NE
1/4 - 1/2 Mile
Higher

Site ID:	083001219T
Groundwater Flow:	Not Reported
Shallow Water Depth:	6.14
Deep Water Depth:	9.49
Average Water Depth:	Not Reported
Date:	11/14/1997

AQUIFLOW **34289**

B4
SSE
1/4 - 1/2 Mile
Higher

Site ID:	083000339T
Groundwater Flow:	Not Reported
Shallow Water Depth:	8.67
Deep Water Depth:	9.13
Average Water Depth:	Not Reported
Date:	09/23/1986

AQUIFLOW **65371**

5
WSW
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000136777**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31Q002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
6 **WNW** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000136821**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31K001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

	Database	EDR ID Number
B7 **SSE** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000136752**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31R007S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

			Database	EDR ID Number
B8 **SSE** **1/4 - 1/2 Mile** **Higher**	Site ID:	083000983T	**AQUIFLOW**	**39005**
	Groundwater Flow:	SSW		
	Shallow Water Depth:	10.45		
	Deep Water Depth:	12.87		
	Average Water Depth:	Not Reported		
	Date:	05/27/1998		

			Database	EDR ID Number
B9 **SSE** **1/4 - 1/2 Mile** **Higher**	Site ID:	083000983T	**AQUIFLOW**	**39006**
	Groundwater Flow:	SSW		
	Shallow Water Depth:	10.45		
	Deep Water Depth:	12.87		
	Average Water Depth:	Not Reported		
	Date:	05/27/1998		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

B10
SE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000136764**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32N003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

C11
West
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000136798**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31L001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

C12
West
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000136799**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31L002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C13
West
1/4 - 1/2 Mile
Higher | **FED USGS** | **USGS40000136800**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31L003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

14
NNE
1/4 - 1/2 Mile
Higher | **FED USGS** | **USGS40000136868**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31H003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

15
SSE
1/4 - 1/2 Mile
Higher | **FED USGS** | **USGS40000136735**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06A001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

16
North
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000136892**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31H004S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

D17
SW
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000136741**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06B002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

18
ESE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000136770**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32P003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D19
SW
1/4 - 1/2 Mile
Higher | **FED USGS** | **USGS40000136739**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06B003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

20
ENE
1/4 - 1/2 Mile
Higher | **FED USGS** | **USGS40000136847**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32F004S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

21
NNE
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000136894**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32D005S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E22
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136919**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31A002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

23
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000136889**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31F003S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

24
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000136908**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31B003S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F25
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004904**

State Well #:	05S10W32P002S	Station ID:	5161
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

E26
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136939**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31A012S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

G27
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136833**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32L003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

F28
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136751**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W05C001S	Type:	Well
Description:	Not Reported	HUC:	18070203

Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

29
SW
1/2 - 1 Mile
Higher

FED USGS **USGS40000136720**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06C001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

F30
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136755**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32P002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

G31
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136826**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32L001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported

Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

H32
NNE **FED USGS** **USGS40000136969**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31A001S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

H33
North **FED USGS** **USGS40000136998**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31A006S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

H34
North **FED USGS** **USGS40000136999**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31A011S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

35
West
1/2 - 1 Mile
Higher

FED USGS **USGS40000136808**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31M002S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

H36
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136997**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32D002S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

37
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000136957**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31C001S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

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Map ID
Direction
Distance
Elevation

Database | EDR ID Number

H38
NNE
1/2 - 1 Mile
Higher

AQUIFLOW **67253**

Site ID:	083001125T
Groundwater Flow:	SW
Shallow Water Depth:	9.7
Deep Water Depth:	16.8
Average Water Depth:	Not Reported
Date:	05/11/1995

39
East
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004916**

State Well #:	05S10W32Q002S	Station ID:	5162
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

40
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136915**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32C004S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

41
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000137035**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W30R003S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I42
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004900**

State Well #:	06S10W05B004S	Station ID:	25341
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

J43
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000137034**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W30R005S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

44
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004931**

State Well #:	05S10W32K003S	Station ID:	5160
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

45
ESE
1/2 - 1 Mile
Higher

AQUIFLOW **65301**

Site ID:	083000137T
Groundwater Flow:	NW,NWW,SW,SS
Shallow Water Depth:	6.32
Deep Water Depth:	13.06
Average Water Depth:	Not Reported
Date:	06/06/1995

J46
North
1/2 - 1 Mile
Higher

AQUIFLOW **66512**

Site ID:	083000395T
Groundwater Flow:	SW
Shallow Water Depth:	8.34
Deep Water Depth:	9.8
Average Water Depth:	Not Reported
Date:	06/30/1998

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I47
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136750**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W05B004S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

K48
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136769**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32Q001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

L49
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000136672**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06H002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

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Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I50
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004903**

State Well #:	06S10W05B001S	Station ID:	7313
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

M51
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000136742**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06D003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

I52
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004899**

State Well #:	06S10W05B005S	Station ID:	7314
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

53
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000137047**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W29N001S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported

Well Hole Depth Units: Not Reported

K54
ESE **CA WELLS** **CADWR8000004911**
1/2 - 1 Mile
Higher

State Well #:	05S10W32Q001S	Station ID:	28717
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

55
ENE **CA WELLS** **CADWR8000004956**
1/2 - 1 Mile
Higher

State Well #:	05S10W32B006S	Station ID:	5158
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

56
SW **CA WELLS** **7091**
1/2 - 1 Mile
Lower

Seq:	7091	Prim sta c:	06S/11W-01A01 S
Frds no:	3010053002	County:	30
District:	08	User id:	TEE
System no:	3010053	Water type:	G
Source nam:	HOLTZ - DESTROYED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	334100.0	Longitude:	1175800.0
Precision:	8	Status:	DS
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3010053	System nam:	City of Huntington Beach
Hqname:	Not Reported	Address:	PO BOX 190
City:	HUNTINGTON BEACH	State:	CA
Zip:	92648	Zip ext:	Not Reported
Pop serv:	192000	Connection:	49209
Area serve:	HUNTINGTON BEACH		

N57
NNW **FED USGS** **USGS40000137031**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA
Organization Name:	USGS California Water Science Center

Monitor Location:	005S010W30P003S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

L58
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000136665**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06H001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

59
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000136825**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32K001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

60
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000136666**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06K001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		

Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

61
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000137048**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W30Q003S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

M62
WSW
1/2 - 1 Mile
Lower

AQUIFLOW **68273**

Site ID:	083001249T
Groundwater Flow:	S
Shallow Water Depth:	9.96
Deep Water Depth:	10.41
Average Water Depth:	Not Reported
Date:	03/31/1999

M63
WSW
1/2 - 1 Mile
Lower

AQUIFLOW **68274**

Site ID:	083001249T
Groundwater Flow:	S
Shallow Water Depth:	9.96
Deep Water Depth:	10.41
Average Water Depth:	Not Reported
Date:	03/31/1999

64
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000137061**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W30Q006S	Type:	Well
Description:	NAWQA DATA ENTRY COM + VER 9-25-2000 SNHAMLIN		
HUC:	18070203	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	California Coastal Basin aquifers
Formation Type:	Quaternary Alluvium	Aquifer Type:	Unconfined single aquifer
Construction Date:	19991130	Well Depth:	28.5
Well Depth Units:	ft	Well Hole Depth:	28.5
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	2000-07-18
Feet below surface:	12.12	Feet to sea level:	Not Reported

Note: Not Reported

65
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000137014**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32C011S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

O66
WSW
1/2 - 1 Mile
Higher

AQUIFLOW **51923**

Site ID:	083000638T
Groundwater Flow:	SW
Shallow Water Depth:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	25 ft
Date:	02/20/1987

N67
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000137040**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W30P005S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

68
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136952**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32C010S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported

Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

O69
WSW
1/2 - 1 Mile
Lower

AQUIFLOW **65108**

Site ID:	083000350T
Groundwater Flow:	Not Reported
Shallow Water Depth:	8.69
Deep Water Depth:	11.9
Average Water Depth:	Not Reported
Date:	03/1997

O70
WSW
1/2 - 1 Mile
Lower

AQUIFLOW **33974**

Site ID:	083000283T
Groundwater Flow:	Varies
Shallow Water Depth:	8.46
Deep Water Depth:	11.52
Average Water Depth:	Not Reported
Date:	1995

71
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000136658**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06K002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

P72
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000136652**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06J002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

P73
South
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000136651**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06J001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Q74
SSW
1/2 - 1 Mile
Lower | **FED USGS** | **USGS40000136667**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06L002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

R75
ESE
1/2 - 1 Mile
Higher | **CA WELLS** | **CADWR8000004888**

State Well #:	06S10W05B003S	Station ID:	28522
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

S76
NW
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000136916**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W31D004S	Type:	Well
Description:	Not Reported	HUC:	18070201

Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19400801	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	115
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	60	Level reading date:	1986-08-19
Feet below surface:	23.38	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1986-05-01	Feet below surface:	18.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-03-03	Feet below surface:	20.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-11-04	Feet below surface:	23.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-08-16	Feet below surface:	23.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-14	Feet below surface:	15.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-02-15	Feet below surface:	15.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-10-31	Feet below surface:	21.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-08-22	Feet below surface:	20.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-05-15	Feet below surface:	17.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-02-08	Feet below surface:	12.66
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-07	Feet below surface:	15.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-08-10	Feet below surface:	19.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-12	Feet below surface:	14.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-10	Feet below surface:	15.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-03	Feet below surface:	18.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-06	Feet below surface:	18.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-05-06	Feet below surface:	13.74

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-26	Feet below surface:	17.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-06	Feet below surface:	18.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-04	Feet below surface:	17.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-12	Feet below surface:	15.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-04	Feet below surface:	13.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-30	Feet below surface:	18.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-26	Feet below surface:	18.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-16	Feet below surface:	17.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-07	Feet below surface:	18.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-08	Feet below surface:	17.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-02	Feet below surface:	22.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-30	Feet below surface:	17.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-01	Feet below surface:	16.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-11-06	Feet below surface:	17.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-18	Feet below surface:	21.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-02	Feet below surface:	20.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-12	Feet below surface:	29.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-27	Feet below surface:	33.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-03	Feet below surface:	39.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-11	Feet below surface:	41.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-11-01	Feet below surface:	39.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-14	Feet below surface:	37.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-06	Feet below surface:	29.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-26	Feet below surface:	32.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-02	Feet below surface:	33.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-05	Feet below surface:	34.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-26	Feet below surface:	35.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-07	Feet below surface:	29.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-02	Feet below surface:	27.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-12	Feet below surface:	28.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-07	Feet below surface:	27.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-10-29	Feet below surface:	29.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-05	Feet below surface:	31.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-05	Feet below surface:	31.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-03	Feet below surface:	26.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-20	Feet below surface:	25.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-30	Feet below surface:	24.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-07	Feet below surface:	28.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-12	Feet below surface:	27.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-11	Feet below surface:	26.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-13	Feet below surface:	19.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1973-01-10	Feet below surface:	24.2
Feet to sea level:	Not Reported	Note:	Not Reported

Q77
SSW **FED USGS** **USGS40000136659**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W06L003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

78
NE **FED USGS** **USGS40000137013**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W32C001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

R79
ESE **FED USGS** **USGS40000136731**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S010W05B003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19560217	Well Depth:	180
Well Depth Units:	ft	Well Hole Depth:	218
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	53	Level reading date:	1986-08-13
Feet below surface:	29.45	Feet to sea level:	Not Reported

Note:	Not Reported		
Level reading date:	1986-05-01	Feet below surface:	23.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-03-03	Feet below surface:	27.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-11-04	Feet below surface:	29.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-08-16	Feet below surface:	30.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-14	Feet below surface:	21.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-02-14	Feet below surface:	19.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-10-31	Feet below surface:	27.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-08-14	Feet below surface:	27.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-05-10	Feet below surface:	23.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-02-08	Feet below surface:	17.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-07	Feet below surface:	21.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-08-10	Feet below surface:	27.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-12	Feet below surface:	18.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-10	Feet below surface:	18.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-02	Feet below surface:	24.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-06	Feet below surface:	26.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-04	Feet below surface:	22.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-12	Feet below surface:	18.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-04	Feet below surface:	17.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-31	Feet below surface:	22.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-08-27	Feet below surface:	23.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-16	Feet below surface:	20.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-06	Feet below surface:	21.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-08	Feet below surface:	19.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-30	Feet below surface:	20.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-02	Feet below surface:	20.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-11-02	Feet below surface:	21.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-16	Feet below surface:	25.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-26	Feet below surface:	34.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-07	Feet below surface:	29.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-12	Feet below surface:	29.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-11	Feet below surface:	32.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-04	Feet below surface:	30.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-27	Feet below surface:	29.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-14	Feet below surface:	28.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-09	Feet below surface:	34.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-10-23	Feet below surface:	36.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-06	Feet below surface:	35.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-09	Feet below surface:	36.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-06	Feet below surface:	23.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-21	Feet below surface:	20.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1974-01-31	Feet below surface:	28.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-13	Feet below surface:	35.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-11	Feet below surface:	29.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-13	Feet below surface:	23.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-01-11	Feet below surface:	27.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-11-06	Feet below surface:	28.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-09-08	Feet below surface:	30.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-07-12	Feet below surface:	28.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-05-05	Feet below surface:	24.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-03-03	Feet below surface:	21.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-01-13	Feet below surface:	16.60
Feet to sea level:	Not Reported	Note:	Not Reported

80
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000137091**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W30Q001S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

S81
WNW
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004961**

State Well #:	05S10W31D004S	Station ID:	5157
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		

Well Completion Rpt #: Not Reported

82
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004955**

State Well #:	05S10W32G000S	Station ID:	25317
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

83
WSW
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004894**

State Well #:	06S11W01A003S	Station ID:	25342
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

84
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000137101**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S010W29M009S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

1G
North
1/2 - 1 Mile
Lower

AQUIFLOW **66512**

Site ID:	083000395T
Groundwater Flow:	SW
Shallow Water Depth:	8.34
Deep Water Depth:	9.8
Average Water Depth:	Not Reported
Date:	06/30/1998

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
2G **NNE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083001125T SW 9.7 16.8 Not Reported 05/11/1995	**AQUIFLOW**	**67253**
3G **NE** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083001219T Not Reported 6.14 9.49 Not Reported 11/14/1997	**AQUIFLOW**	**34289**
4G **NE** **1/8 - 1/4 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000824T ENE 8.94 14.02 Not Reported 04/1999	**AQUIFLOW**	**51921**
5G **SSE** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000339T Not Reported 8.67 9.13 Not Reported 09/23/1986	**AQUIFLOW**	**65371**
6G **WSW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000638T SW Not Reported Not Reported 25 ft 02/20/1987	**AQUIFLOW**	**51923**
7G **SSE** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000983T SSW 10.45 12.87 Not Reported 05/27/1998	**AQUIFLOW**	**39005**
8G **SSE** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000983T SSW 10.45 12.87 Not Reported 05/27/1998	**AQUIFLOW**	**39006**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
9G **WSW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083001249T S 9.96 10.41 Not Reported 03/31/1999	**AQUIFLOW**	**68273**
10G **WSW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083001249T S 9.96 10.41 Not Reported 03/31/1999	**AQUIFLOW**	**68274**
11G **WSW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000350T Not Reported 8.69 11.9 Not Reported 03/1997	**AQUIFLOW**	**65108**
12G **WSW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000283T Varies 8.46 11.52 Not Reported 1995	**AQUIFLOW**	**33974**
13G **ESE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000137T NW,NWW,SW,SS 6.32 13.06 Not Reported 06/06/1995	**AQUIFLOW**	**65301**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
SSW **OIL_GAS** **CAOG13000006288**
1/4 - 1/2 Mile

API #:	0405901284	Well #:	31-68
Well Status:	Plugged	Well Type:	DH
Operator Name:	Westates Petroleum Co.	Lease Name:	Bradley
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

2
East **OIL_GAS** **CAOG13000006232**
1/4 - 1/2 Mile

API #:	0405901227	Well #:	26
Well Status:	Plugged	Well Type:	DH
Operator Name:	The Superior Oil Co.	Lease Name:	Gisler
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

3
West **OIL_GAS** **CAOG13000005954**
1/4 - 1/2 Mile

API #:	0405900859	Well #:	1
Well Status:	Plugged	Well Type:	DH
Operator Name:	Atlantic Oil Company	Lease Name:	Pope
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

4
SW **OIL_GAS** **CAOG13000216236**
1/4 - 1/2 Mile

API #:	0405907473	Well #:	51-6
Well Status:	Plugged	Well Type:	OG
Operator Name:	Coast Supply Company Ltd.	Lease Name:	Lamb
Field Name:	Sunset Beach (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

5
SW
1/2 - 1 Mile

OIL_GAS **CAOG13000216702**

API #:	0405907484	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	E. A. Shamlin	Lease Name:	Harper
Field Name:	Talbert (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

6
SW
1/2 - 1 Mile

OIL_GAS **CAOG13000216694**

API #:	0405907476	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Lamb Oil Co.	Lease Name:	Lamb
Field Name:	Talbert (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

A7
South
1/2 - 1 Mile

OIL_GAS **CAOG13000216692**

API #:	0405907474	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Lamb Oil Co.	Lease Name:	Harper
Field Name:	Talbert (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

A8
SSW
1/2 - 1 Mile

OIL_GAS **CAOG13000216695**

API #:	0405907477	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Lamb Oil Co.	Lease Name:	Lamb
Field Name:	Talbert (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

A9
South
1/2 - 1 Mile

OIL_GAS **CAOG13000216696**

API #:	0405907478	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Lamb Oil Co.	Lease Name:	Walter
Field Name:	Talbert (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

10
East
1/2 - 1 Mile

OIL_GAS **CAOG13000006028**

API #:	0405900999	Well #:	1
Well Status:	Plugged	Well Type:	DH
Operator Name:	Sam B. Herndon, Operator	Lease Name:	Stephens Comm.
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

11
SW
1/2 - 1 Mile

OIL_GAS **CAOG13000216697**

API #:	0405907479	Well #:	32
Well Status:	Plugged	Well Type:	OG
Operator Name:	McCarthy Oil & Gas Corp.	Lease Name:	Lamb Community
Field Name:	Talbert (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

12
WSW
1/2 - 1 Mile

OIL_GAS **CAOG13000216700**

API #:	0405907482	Well #:	1-6
Well Status:	Plugged	Well Type:	OG
Operator Name:	Rancho Oil Co.	Lease Name:	Walter Lamb
Field Name:	Talbert (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

13
WSW
1/2 - 1 Mile

OIL_GAS **CAOG13000006269**

API #:	0405901264	Well #:	31-8
Well Status:	Plugged	Well Type:	DH
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Watson-Nau
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

14
NE
1/2 - 1 Mile

OIL_GAS **CAOG13000006088**

API #:	0405901073	Well #:	1
Well Status:	Plugged	Well Type:	DH
Operator Name:	Morton and Sons	Lease Name:	Crew Community
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

B15
WSW
1/2 - 1 Mile

OIL_GAS **CAOG13000216699**

API #:	0405907481	Well #:	2-6
Well Status:	Plugged	Well Type:	OG
Operator Name:	Pacific Supply Cooperative		
Lease Name:	Lamb	Field Name:	Talbert (ABD)
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

B16
WSW
1/2 - 1 Mile

OIL_GAS **CAOG13000216703**

API #:	0405907486	Well #:	3-6
Well Status:	Plugged	Well Type:	OG
Operator Name:	R. B. Watkins	Lease Name:	Lamb
Field Name:	Talbert (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

17
WSW
1/2 - 1 Mile

OIL_GAS **CAOG13000216701**

API #:	0405907483	Well #:	2-6
Well Status:	Plugged	Well Type:	OG
Operator Name:	Rancho Oil Co.	Lease Name:	Walter Lamb
Field Name:	Talbert (ABD)	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

18
SW
1/2 - 1 Mile

OIL_GAS **CAOG13000216693**

API #:	0405907475	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	D. D. Dunlap and Dorothy Dunlap		
Lease Name:	Lamb	Field Name:	Talbert (ABD)
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

19
SSW
1/2 - 1 Mile

OIL_GAS **CAOG13000006093**

API #:	0405901078	Well #:	1
Well Status:	Plugged	Well Type:	DH
Operator Name:	Morton and Sons	Lease Name:	Lamb-Community
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

20
WSW
1/2 - 1 Mile

OIL_GAS **CAOG13000006261**

API #:	0405901256	Well #:	81
Well Status:	Plugged	Well Type:	DH
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Holtz 1
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

21
SW
1/2 - 1 Mile

OIL_GAS **CAOG13000216698**

API #:	0405907480	Well #:	1-6
Well Status:	Plugged	Well Type:	OG
Operator Name:	Pacific Supply Cooperative		
Lease Name:	Lamb	Field Name:	Talbert (ABD)
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92708	56	0

Federal EPA Radon Zone for ORANGE County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for ORANGE COUNTY, CA

Number of sites tested: 30

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.763 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Brookfield LA- Fountain Valley
9790 Finch Avenue
Fountain Valley, CA 92708

Inquiry Number: 5682876.2s
June 20, 2019

EDR Vapor Encroachment Screen

Prepared using EDR's Vapor Encroachment Worksheet

EDR® Environmental Data Resources Inc

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Shelton, CT 06484
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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by EDR. The report was designed to assist parties seeking to meet the search requirements of the ASTM Standard Practice for Assessment of Vapor Encroachment into Structures on Property Involved in Real Estate Transactions (E 2600).

STANDARD ENVIRONMENTAL RECORDS	Default Area of Concern (Miles)*	property	1/10	> 1/10
Federal NPL site list	1.0	0	0	0
Federal Delisted NPL site list	1.0	0	0	0
Federal CERCLIS list	0.5	0	0	0
Federal CERCLIS NFRAP site list	0.5	0	0	0
Federal RCRA CORRACTS facilities list	1.0	0	0	0
Federal RCRA non-CORRACTS TSD facilities list	0.5	0	0	0
Federal RCRA generators list	0.25	0	2	0
Federal institutional controls / engineering controls registries	0.5	0	0	0
Federal ERNS list	0.001	0	0	-
State- and tribal - equivalent NPL	1.0	0	0	0
State- and tribal - equivalent CERCLIS	1.0	0	0	0
State and tribal landfill and/or solid waste disposal site lists	0.5	0	0	0
State and tribal leaking storage tank lists	0.5	0	2	0
State and tribal registered storage tank lists	0.25	0	0	0
State and tribal institutional control / engineering control registries	not searched	-	-	-
State and tribal voluntary cleanup sites	0.5	0	0	0
State and tribal Brownfields sites	0.5	0	0	0

ADDITIONAL ENVIRONMENTAL RECORDS				
Local Brownfield lists	0.5	0	0	0
Local Lists of Landfill / Solid Waste Disposal Sites	0.5	0	0	0
Local Lists of Hazardous waste / Contaminated Sites	1.0	0	1	0
Local Lists of Registered Storage Tanks	0.25	0	0	0
Local Land Records	0.5	0	0	0
Records of Emergency Release Reports	0.5	0	1	0
Other Ascertainable Records	1.0	0	3	0

EDR HIGH RISK HISTORICAL RECORDS				
EDR Exclusive Records	1.0	0	2	0
Exclusive Recovered Govt. Archives	0.001	0	0	-

EXECUTIVE SUMMARY

EDR RECOVERED GOVERNMENT ARCHIVES

EDR Exclusive Records	1.0	0	2	0
Exclusive Recovered Govt. Archives	0.001	0	0	-

*The Default Area of Concern may be adjusted by the environmental professional using experience and professional judgement. Each category may include several databases, and each database may have a different distance. A list of individual databases is provided at the back of this report.

EXECUTIVE SUMMARY

TARGET PROPERTY INFORMATION

ADDRESS

BROOKFIELD LA- FOUNTAIN VALLEY
9790 FINCH AVENUE
FOUNTAIN VALLEY, CA 92708

COORDINATES

Latitude (North):	33.691358 - 33° 41′ 28.883972″
Longitude (West):	117.9569 - 117° 57′ 24.845581″
Elevation:	13 ft. above sea level

EXECUTIVE SUMMARY

SEARCH RESULTS

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Name	Address	Dist/Dir	Map ID	Page
CROWN CLEANERS FINDS: FINDS RCRA-SQG: RCRA-SQG ECHO: ECHO CERS: CERS EMI: EMI CPS-SLIC: CPS-SLIC HAZNET: HAZNET CERS HAZ WASTE: CERS HAZ WASTE DRYCLEANERS: DRYCLEANERS Orange Co. Industrial Site: Orange Co. Industrial Site	18583 BROOKHURST	<1/10 NE	▲ A2	9
CROWN CLEANERS RCRA-SQG: RCRA-SQG CERS: CERS CPS-SLIC: CPS-SLIC HAZNET: HAZNET	18583 BROOKHURST ST	<1/10 NE	▲ A3	9

ADDITIONAL ENVIRONMENTAL RECORDS

Name	Address	Dist/Dir	Map ID	Page
CROWN CLEANERS FINDS: FINDS RCRA-SQG: RCRA-SQG ECHO: ECHO CERS: CERS EMI: EMI CPS-SLIC: CPS-SLIC HAZNET: HAZNET CERS HAZ WASTE: CERS HAZ WASTE DRYCLEANERS: DRYCLEANERS Orange Co. Industrial Site: Orange Co. Industrial Site	18583 BROOKHURST	<1/10 NE	▲ A2	9
CROWN CLEANERS RCRA-SQG: RCRA-SQG CERS: CERS CPS-SLIC: CPS-SLIC HAZNET: HAZNET	18583 BROOKHURST ST	<1/10 NE	▲ A3	9
CROWN CLEANERS, LUPE AND JACK TANEJA DRYCLEANERS: DRYCLEANERS	18583 BROOKHURST ST	<1/10 NE	▲ A4	9

EDR HIGH RISK HISTORICAL RECORDS

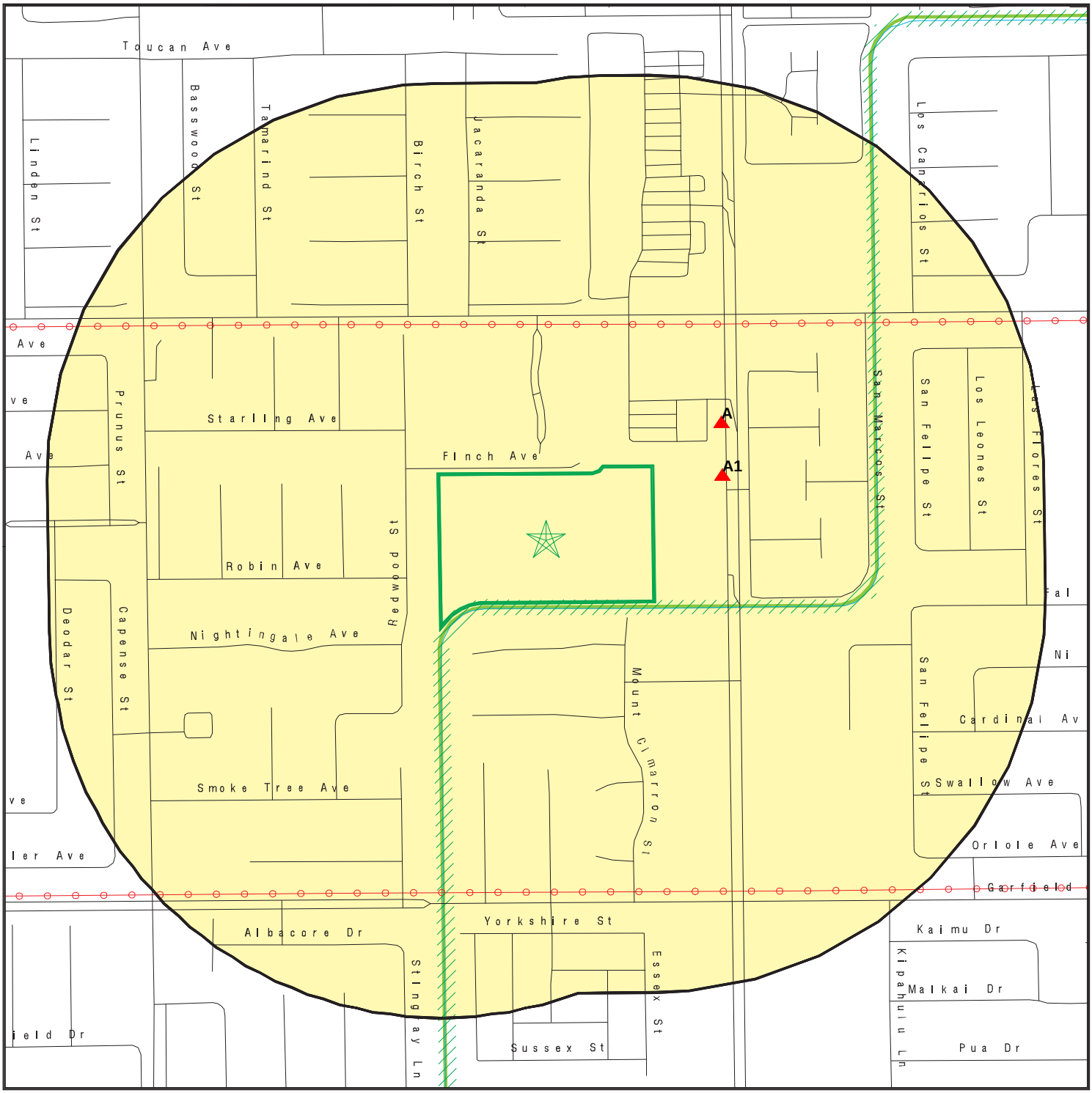
Name	Address	Dist/Dir	Map ID	Page
DYE MASTERS EDR Hist Cleaner: EDR Hist Cleaner	18627 BROOKHURST ST 123	<1/10 ENE	▲ A1	9
CROWN CLEANERS EDR Hist Cleaner: EDR Hist Cleaner	18583 BROOKHURST ST	<1/10 NE	▲ A5	10

EXECUTIVE SUMMARY

EDR RECOVERED GOVERNMENT ARCHIVES

Name	Address	Dist/Dir	Map ID	Page
Not Reported				

PRIMARY MAP - 5682876.2S



0 300 1/3 Miles

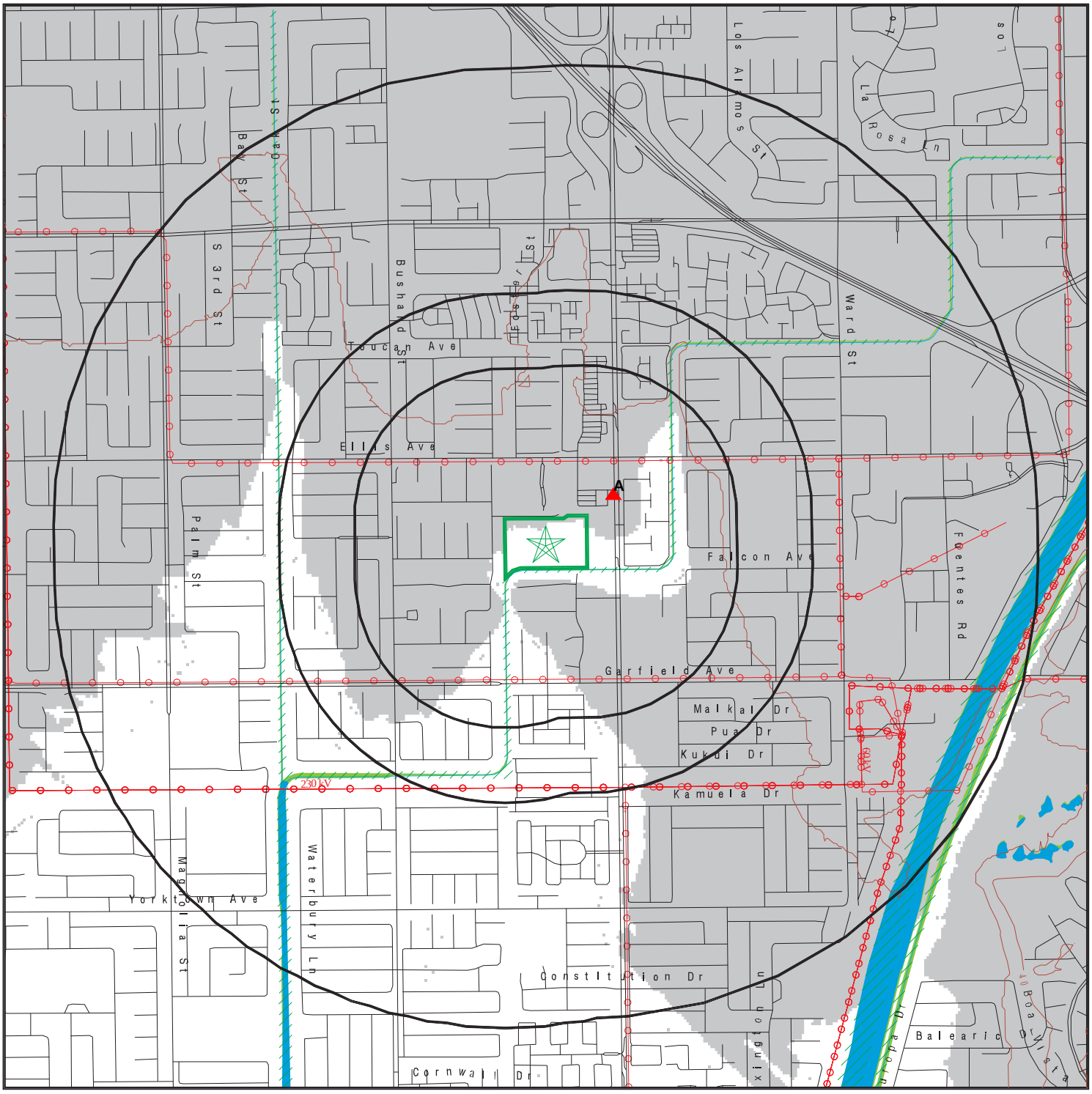
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Brookfield LA- Fountain Valley ADDRESS: 9790 Finch Avenue Fountain Valley CA 92708 LAT/LONG: 33.691358 / 117.9569	CLIENT: Leighton and Associates, Inc. CONTACT: Sabrina Gonzalez INQUIRY #: 5682876.2s DATE: June 13, 2019 12:07 pm

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SECONDARY MAP - 5682876.2S



0 1/3 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Upgradient Area
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Brookfield LA- Fountain Valley ADDRESS: 9790 Finch Avenue Fountain Valley CA 92708 LAT/LONG: 33.691358 / 117.9569	CLIENT: Leighton and Associates, Inc. CONTACT: Sabrina Gonzalez INQUIRY #: 5682876.2s DATE: June 13, 2019 12:06 pm

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MAP FINDINGS

LEGEND

FACILITY NAME **FACILITY ADDRESS, CITY, ST, ZIP**		EDR SITE ID NUMBER
◆ **MAP ID#**	Direction Distance Range (Distance feet / miles) Relative Elevation Feet Above Sea Level	ASTM 2600 Record Sources found in this report. Each database searched has been assigned to one or more categories. For detailed information about categorization, see the section of the report Records Searched and Currency.

Worksheet:

Comments:
Comments may be added on the online Vapor Encroachment Worksheet.

DATABASE ACRONYM: Applicable categories (A hoverbox with database description).

DYE MASTERS 18627 BROOKHURST ST 123, FOUNTAIN VALLEY, CA, 92708			1018667939
▲ A1	ENE <1/10	(313 ft. / 0.059 mi.)	EDR Exclusive Records
	1 ft. Higher Elevation	14 ft. Above Sea Level	

Worksheet:

CROWN CLEANERS 18583 BROOKHURST, FOUNTAIN VALLEY, CA, 92708			1000686629
▲ A2	NE <1/10	(386 ft. / 0.073 mi.)	Federal RCRA generators list State and tribal leaking storage tank lists Local Lists of Hazardous waste / Contaminated Sites Records of Emergency Release Reports Other Ascertainable Records
	1 ft. Higher Elevation	14 ft. Above Sea Level	

Worksheet:

CROWN CLEANERS 18583 BROOKHURST ST, FOUNTAIN VALLEY, CA, 92708			1001959905
▲ A3	NE <1/10	(386 ft. / 0.073 mi.)	Federal RCRA generators list State and tribal leaking storage tank lists Other Ascertainable Records
	1 ft. Higher Elevation	14 ft. Above Sea Level	

Worksheet:

CROWN CLEANERS, LUPE AND JACK TANEJA 18583 BROOKHURST ST, FOUNTAIN VALLEY, CA, 92708			S121693855
▲ A4	NE <1/10	(386 ft. / 0.073 mi.)	Other Ascertainable Records
	1 ft. Higher Elevation	14 ft. Above Sea Level	

MAP FINDINGS

Worksheet:

CROWN CLEANERS 18583 BROOKHURST ST, FOUNTAIN VALLEY, CA, 92708			1019965644
▲ A5	NE <1/10	(386 ft. / 0.073 mi.)	EDR Exclusive Records
	1 ft. Higher Elevation	14 ft. Above Sea Level	

Worksheet:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
ENVIRONMENTAL RECORDS						
Federal NPL site list						
US	NPL	National Priority List	EPA	04/11/2019	04/18/2019	05/14/2019
US	Proposed NPL	Proposed National Priority List Sites	EPA	04/11/2019	04/18/2019	05/14/2019
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
Federal CERCLIS list						
US	SEMS	Superfund Enterprise Management System	EPA	04/11/2019	04/18/2019	05/23/2019
Federal RCRA CORRACTS facilities list						
US	CORRACTS	Corrective Action Report	EPA	03/25/2019	03/27/2019	04/17/2019
Federal RCRA TSD facilities list						
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	03/25/2019	03/27/2019	04/17/2019
Federal RCRA generators list						
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	03/25/2019	03/27/2019	04/17/2019
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	03/25/2019	03/27/2019	04/17/2019
US	RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generators	Environmental Protection Agency	03/25/2019	03/27/2019	04/17/2019
Federal institutional controls / engineering controls registries						
US	LUCIS	Land Use Control Information System	Department of the Navy	02/22/2019	03/07/2019	04/17/2019
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	01/31/2019	02/04/2019	03/08/2019
US	US INST CONTROL	Sites with Institutional Controls	Environmental Protection Agency	01/31/2019	02/04/2019	03/08/2019
Federal ERNS list						
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	03/25/2019	03/26/2019	05/01/2019
State and tribal - equivalent NPL						
CA	RESPONSE	State Response Sites	Department of Toxic Substances Control	01/28/2019	01/29/2019	03/05/2019
State and tribal - equivalent CERCLIS						
CA	ENVIROSTOR	EnviroStor Database	Department of Toxic Substances Control	01/28/2019	01/29/2019	03/05/2019
State and tribal landfill / solid waste disposal						
CA	SWF/LF (SWIS)	Solid Waste Information System	Department of Resources Recycling and Recover	02/11/2019	02/12/2019	03/05/2019
State and tribal leaking storage tank lists						
CA	LUST REG 6V	Leaking Underground Storage Tank Case Listing	California Regional Water Quality Control Boa	06/07/2005	06/07/2005	06/29/2005
CA	LUST REG 7	Leaking Underground Storage Tank Case Listing	California Regional Water Quality Control Boa	02/26/2004	02/26/2004	03/24/2004
CA	LUST REG 3	Leaking Underground Storage Tank Database	California Regional Water Quality Control Boa	05/19/2003	05/19/2003	06/02/2003
CA	LUST REG 8	Leaking Underground Storage Tanks	California Regional Water Quality Control Boa	02/14/2005	02/15/2005	03/28/2005
CA	LUST REG 9	Leaking Underground Storage Tank Report	California Regional Water Quality Control Boa	03/01/2001	04/23/2001	05/21/2001
CA	LUST REG 2	Fuel Leak List	California Regional Water Quality Control Boa	09/30/2004	10/20/2004	11/19/2004
CA	LUST REG 1	Active Toxic Site Investigation	California Regional Water Quality Control Boa	02/01/2001	02/28/2001	03/29/2001

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CA	LUST REG 4	Underground Storage Tank Leak List	California Regional Water Quality Control Boa	09/07/2004	09/07/2004	10/12/2004
CA	LUST REG 5	Leaking Underground Storage Tank Database	California Regional Water Quality Control Boa	07/01/2008	07/22/2008	07/31/2008
CA	LUST REG 6L	Leaking Underground Storage Tank Case Listing	California Regional Water Quality Control Boa	09/09/2003	09/10/2003	10/07/2003
CA	LUST	Leaking Underground Fuel Tank Report (GEOTRACKER)	State Water Resources Control Board	12/10/2018	12/11/2018	01/15/2019
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	10/16/2018	03/07/2019	05/01/2019
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	02/19/2019	03/07/2019	05/01/2019
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	11/01/2018	03/07/2019	05/01/2019
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	09/24/2018	03/12/2019	05/01/2019
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	10/13/2018	03/07/2019	05/01/2019
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	10/12/2018	03/07/2019	05/01/2019
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	10/17/2018	03/07/2019	05/01/2019
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	10/10/2018	03/08/2019	05/01/2019
CA	CPS-SLIC	Statewide SLIC Cases (GEOTRACKER)	State Water Resources Control Board	12/10/2018	12/11/2018	01/15/2019
CA	SLIC REG 1	Active Toxic Site Investigations	California Regional Water Quality Control Boa	04/03/2003	04/07/2003	04/25/2003
CA	SLIC REG 2	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Regional Water Quality Control Board San Fran	09/30/2004	10/20/2004	11/19/2004
CA	SLIC REG 3	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	California Regional Water Quality Control Boa	05/18/2006	05/18/2006	06/15/2006
CA	SLIC REG 4	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Region Water Quality Control Board Los Angele	11/17/2004	11/18/2004	01/04/2005
CA	SLIC REG 5	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Regional Water Quality Control Board Central	04/01/2005	04/05/2005	04/21/2005
CA	SLIC REG 6V	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Regional Water Quality Control Board, Victorv	05/24/2005	05/25/2005	06/16/2005
CA	SLIC REG 6L	SLIC Sites	California Regional Water Quality Control Boa	09/07/2004	09/07/2004	10/12/2004
CA	SLIC REG 7	SLIC List	California Regional Quality Control Board, Co	11/24/2004	11/29/2004	01/04/2005
CA	SLIC REG 8	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	California Region Water Quality Control Board	04/03/2008	04/03/2008	04/14/2008
CA	SLIC REG 9	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	California Regional Water Quality Control Boa	09/10/2007	09/11/2007	09/28/2007
State and tribal registered storage tank lists						
CA	UST	Active UST Facilities	SWRCB	12/10/2018	12/11/2018	01/15/2019
CA	UST CLOSURE	Proposed Closure of Underground Storage Tank (UST) Cases	State Water Resources Control Board	03/11/2019	03/13/2019	04/03/2019
CA	MILITARY UST SITES	Military UST Sites (GEOTRACKER)	State Water Resources Control Board	12/10/2018	12/11/2018	01/15/2019
CA	UST MENDOCINO	Mendocino County UST Database	Department of Public Health	12/04/2018	12/06/2018	12/14/2018
CA	AST	Aboveground Petroleum Storage Tank Facilities	California Environmental Protection Agency	07/06/2016	07/12/2016	09/19/2016
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	10/12/2018	03/07/2019	05/01/2019
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	11/01/2018	03/07/2019	05/01/2019
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	11/07/2018	03/07/2019	05/01/2019
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	10/16/2018	03/07/2019	05/01/2019
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	10/10/2018	03/08/2019	05/01/2019
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	10/03/2018	03/07/2019	05/01/2019
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	09/24/2018	03/12/2019	05/01/2019
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	10/17/2018	03/07/2019	05/01/2019
US	FEMA UST	Underground Storage Tank Listing	FEMA	05/15/2017	05/30/2017	10/13/2017

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
State and tribal voluntary cleanup sites						
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
CA	VCP	Voluntary Cleanup Program Properties	Department of Toxic Substances Control	01/28/2019	01/29/2019	03/05/2019
State and tribal Brownfields sites						
CA	BROWNFIELDS	Considered Brownfieds Sites Listing	State Water Resources Control Board	03/25/2019	03/26/2019	04/29/2019
Other Records						
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	03/31/2019	04/23/2019	05/23/2019
US	ROD	Records Of Decision	EPA	04/11/2019	04/18/2019	05/23/2019
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	04/11/2019	04/18/2019	05/23/2019
CA	HIST CAL-SITES	Calsites Database	Department of Toxic Substance Control	08/08/2005	08/03/2006	08/24/2006
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
CA	SWRCY	Recycler Database	Department of Conservation	03/11/2019	03/13/2019	04/30/2019
CA	CA FID UST	Facility Inventory Database	California Environmental Protection Agency	10/31/1994	09/05/1995	09/29/1995
CA	HIST UST	Hazardous Substance Storage Container Database	State Water Resources Control Board	10/15/1990	01/25/1991	02/12/1991
CA	SAN FRANCISCO AST	Aboveground Storage Tank Site Listing	San Francisco County Department of Public Hea	09/11/2018	09/12/2018	10/11/2018
CA	SWEEPS UST	SWEEPS UST Listing	State Water Resources Control Board	06/01/1994	07/07/2005	08/11/2005
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	04/11/2019	04/18/2019	05/14/2019
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	05/24/2017	11/30/2017	12/15/2017
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	03/25/2019	03/26/2019	05/07/2019
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	07/01/2014	09/10/2014	10/20/2014
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	08/08/2017	09/11/2018	09/14/2018
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	01/01/2017	02/03/2017	04/07/2017
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	02/24/2019	02/26/2019	04/17/2019
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2005	08/07/2009	10/22/2009
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	09/30/2017	05/08/2018	07/20/2018
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	Delisted NPL	National Priority List Deletions	EPA	04/11/2019	04/18/2019	05/14/2019
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	04/11/2019	04/18/2019	05/23/2019
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	03/25/2019	03/27/2019	04/17/2019
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	03/25/2019	03/26/2019	05/14/2019
US	DOT OPS	Incident and Accident Data	Department of Transporation, Office of Pipeli	12/03/2018	01/29/2019	03/21/2019
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	02/24/2019	02/26/2019	04/17/2019
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	12/17/2018	12/18/2018	01/11/2019
US	DOD	Department of Defense Sites	USGS	12/31/2005	11/10/2006	01/11/2007
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	12/31/2005	02/06/2006	01/11/2007
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	03/07/2019	04/03/2019	05/23/2019
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	06/23/2017	10/11/2017	11/03/2017
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	11/27/2018	02/27/2019	04/01/2019
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	12/05/2005	02/29/2008	04/18/2008

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	PRP	Potentially Responsible Parties	EPA	04/11/2019	04/18/2019	05/23/2019
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2016	01/10/2018	01/12/2018
US	TSCA	Toxic Substances Control Act	EPA	12/31/2016	06/21/2017	01/05/2018
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	SSTS	Section 7 Tracking Systems	EPA	12/31/2009	12/10/2010	02/25/2011
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	PADS	PCB Activity Database System	EPA	03/20/2019	04/10/2019	05/14/2019
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	08/30/2016	09/08/2016	10/21/2016
US	RADINFO	Radiation Information Database	Environmental Protection Agency	04/02/2019	04/02/2019	05/14/2019
US	FINDS	Facility Index System/Facility Registry System	EPA	02/15/2019	03/05/2019	03/15/2019
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RMP	Risk Management Plans	Environmental Protection Agency	04/25/2019	05/02/2019	05/23/2019
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2015	02/22/2017	09/28/2017
US	PWS	Public Water System Data	EPA	12/17/2013	01/09/2014	10/15/2014
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	ABANDONED MINES	Abandoned Mines	Department of Interior	03/27/2019	03/28/2019	05/01/2019
CA	CA BOND EXP. PLAN	Bond Expenditure Plan	Department of Health Services	01/01/1989	07/27/1994	08/02/1994
CA	CDL	Clandestine Drug Labs	Department of Toxic Substances Control	12/31/2017	06/12/2018	08/06/2018
CA	CHMIRS	California Hazardous Material Incident Report System	Office of Emergency Services	10/24/2018	01/24/2019	03/05/2019
CA	CORTESE	"Cortese" Hazardous Waste & Substances Sites List	CAL EPA/Office of Emergency Information	03/25/2019	03/26/2019	05/01/2019
CA	CUPA LIVERMORE-PLEASANTON	CUPA Facility Listing	Livermore-Pleasanton Fire Department	01/23/2019	02/26/2019	04/01/2019
CA	CUPA SAN FRANCISCO CO	CUPA Facility Listing	San Francisco County Department of Environmen	04/18/2019	04/19/2019	04/30/2019
CA	DEED	Deed Restriction Listing	DTSC and SWRCB	03/04/2019	03/05/2019	04/01/2019
CA	DRYCLEAN SOUTH COAST	South Coast Air Quality Management District Drycleaner Listi	South Coast Air Quality Management District	03/19/2019	03/22/2019	04/09/2019
CA	DRYCLEAN AVAQMD	Antelope Valley Air Quality Management District Drycleaner L	Antelope Valley Air Quality Management Distri	02/27/2019	02/28/2019	04/01/2019
CA	DRYCLEANERS	Cleaner Facilities	Department of Toxic Substance Control	03/01/2019	04/25/2019	05/30/2019
CA	EMI	Emissions Inventory Data	California Air Resources Board	12/31/2017	06/20/2018	08/06/2018
CA	ENF	Enforcement Action Listing	State Water Resoruces Control Board	11/01/2018	11/02/2018	12/13/2018
CA	Financial Assurance 1	Financial Assurance Information Listing	Department of Toxic Substances Control	01/10/2019	01/23/2019	03/05/2019
CA	Financial Assurance 2	Financial Assurance Information Listing	California Integrated Waste Management Board	02/15/2019	02/19/2019	03/05/2019
CA	HAULERS	Registered Waste Tire Haulers Listing	Integrated Waste Management Board	03/26/2019	03/27/2019	04/30/2019
CA	HAZNET	Facility and Manifest Data	California Environmental Protection Agency	12/31/2017	04/09/2019	05/29/2019
CA	HIST CORTESE	Hazardous Waste & Substance Site List	Department of Toxic Substances Control	04/01/2001	01/22/2009	04/08/2009
CA	HWP	EnviroStor Permitted Facilities Listing	Department of Toxic Substances Control	02/19/2019	02/20/2019	03/05/2019
CA	HWT	Registered Hazardous Waste Transporter Database	Department of Toxic Substances Control	04/08/2019	04/09/2019	05/30/2019
CA	ICE	ICE	Department of Toxic Subsances Control	02/19/2019	02/20/2019	03/05/2019
CA	LDS	Land Disposal Sites Listing (GEOTRACKER)	State Water Qualilty Control Board	12/10/2018	12/11/2018	01/15/2019
CA	LIENS	Environmental Liens Listing	Department of Toxic Substances Control	02/28/2019	03/01/2019	04/02/2019
CA	MCS	Military Cleanup Sites Listing (GEOTRACKER)	State Water Resources Control Board	12/10/2018	12/11/2018	01/15/2019
CA	MINES	Mines Site Location Listing	Department of Conservation	12/10/2018	12/12/2018	01/15/2019
CA	MWMP	Medical Waste Management Program Listing	Department of Public Health	02/20/2019	03/05/2019	04/02/2019
CA	NPDES	NPDES Permits Listing	State Water Resources Control Board	02/11/2019	02/12/2019	03/07/2019

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CA	PEST LIC	Pesticide Regulation Licenses Listing	Department of Pesticide Regulation	03/04/2019	03/05/2019	04/05/2019
CA	PROC	Certified Processors Database	Department of Conservation	03/11/2019	03/13/2019	04/29/2019
CA	NOTIFY 65	Proposition 65 Records	State Water Resources Control Board	03/18/2019	03/19/2019	04/29/2019
CA	SCH	School Property Evaluation Program	Department of Toxic Substances Control	01/28/2019	01/29/2019	03/05/2019
CA	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	06/06/2012	01/03/2013	02/22/2013
CA	TOXIC PITS	Toxic Pits Cleanup Act Sites	State Water Resources Control Board	07/01/1995	08/30/1995	09/26/1995
CA	UIC	UIC Listing	Deaprtment of Conservation	04/27/2018	06/13/2018	07/17/2018
CA	WASTEWATER PITS	Oil Wastewater Pits Listing	RWQCB, Central Valley Region	05/08/2018	07/11/2018	09/13/2018
CA	WDS	Waste Discharge System	State Water Resources Control Board	06/19/2007	06/20/2007	06/29/2007
CA	WIP	Well Investigation Program Case List	Los Angeles Water Quality Control Board	07/03/2009	07/21/2009	08/03/2009
CA	WMUDS/SWAT	Waste Management Unit Database	State Water Resources Control Board	04/01/2000	04/10/2000	05/10/2000
CA	PROJECT	Project Sites (GEOTRACKER)	State Water Resources Control Board	12/10/2018	12/11/2018	01/15/2019
CA	OTHER OIL GAS	Other Oil & Gas Projects Sites (GEOTRACKER)	State Water Resources Control Board	12/10/2018	12/11/2018	01/15/2019
CA	WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)	State Water Resources Control Board	12/10/2018	12/11/2018	01/15/2019
CA	UIC GEO	Underground Injection Control Sites (GEOTRACKER)	State Water Resource Control Board	12/10/2018	12/11/2018	01/15/2019
CA	CERS	CalEPA Regulated Site Portal Data	California Environmental Protection Agency	04/09/2019	04/11/2019	05/08/2019
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	05/31/2018	07/26/2018	10/05/2018
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	02/19/2019	02/21/2019	04/01/2019
US	UXO	Unexploded Ordnance Sites	Department of Defense	12/31/2017	01/17/2019	04/01/2019
CA	NON-CASE INFO	Non-Case Information Sites (GEOTRACKER)	State Water Resources Control Board	12/10/2018	12/11/2018	01/15/2019
CA	CERS HAZ WASTE	CERS HAZ WASTE	CalEPA	04/09/2019	04/11/2019	05/08/2019
CA	PFAS	PFAS Contamination Site Location Listing	State Water Resources Control Board	02/21/2019	02/22/2019	04/15/2019
CA	CERS TANKS	California Environmental Reporting System (CERS) Tanks	California Environmental Protection Agency	04/09/2019	04/11/2019	05/08/2019
CA	CIWQS	California Integrated Water Quality System	State Water Resources Control Board	03/05/2019	03/05/2019	04/02/2019
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	04/07/2019	04/09/2019	05/23/2019
CA	MILITARY PRIV SITES	Military Privatized Sites (GEOTRACKER)	State Water Resources Control Board	12/10/2018	12/11/2018	01/15/2019
CA	SAMPLING POINT	Sampling Point ? Public Sites (GEOTRACKER)	State Water Resources Control Board	12/10/2018	12/11/2018	01/15/2019
CA	PROD WATER PONDS	Produced Water Ponds Sites (GEOTRACKER)	State Water Resources Control Board	12/10/2018	12/11/2018	01/15/2019
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Serivces, Indian	04/01/2014	08/06/2014	01/29/2015
CA	WDR	Waste Discharge Requirements Listing	State Water Resources Control Board	03/11/2019	03/13/2019	04/29/2019

HISTORICAL USE RECORDS

US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
CA	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Resources Recycling and Recover		07/01/2013	01/13/2014
CA	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	State Water Resources Control Board		07/01/2013	12/30/2013

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
COUNTY RECORDS						
CA	CS ALAMEDA	Contaminated Sites	Alameda County Environmental Health Services	01/09/2019	01/11/2019	03/05/2019
CA	UST ALAMEDA	Underground Tanks	Alameda County Environmental Health Services	01/07/2019	01/08/2019	03/08/2019
CA	CUPA AMADOR	CUPA Facility List	Amador County Environmental Health	01/07/2019	01/08/2019	03/07/2019
CA	CUPA BUTTE	CUPA Facility Listing	Public Health Department	04/21/2017	04/25/2017	08/09/2017
CA	CUPA CALVERAS	CUPA Facility Listing	Calveras County Environmental Health	05/01/2019	05/02/2019	05/29/2019
CA	CUPA COLUSA	CUPA Facility List	Health & Human Services	02/27/2019	02/28/2019	04/01/2019
CA	SL CONTRA COSTA	Site List	Contra Costa Health Services Department	02/14/2019	02/19/2019	03/08/2019
CA	CUPA DEL NORTE	CUPA Facility List	Del Norte County Environmental Health Divisio	02/20/2019	05/01/2019	05/30/2019
CA	CUPA EL DORADO	CUPA Facility List	El Dorado County Environmental Management Dep	02/27/2019	02/28/2019	04/01/2019
CA	CUPA FRESNO	CUPA Resources List	Dept. of Community Health	04/10/2019	04/11/2019	04/30/2019
CA	CUPA GLENN	CUPA Facility List	Glenn County Air Pollution Control District	01/22/2018	01/24/2018	03/14/2018
CA	CUPA HUMBOLDT	CUPA Facility List	Humboldt County Environmental Health	12/11/2018	12/13/2018	01/15/2019
CA	CUPA IMPERIAL	CUPA Facility List	San Diego Border Field Office	01/18/2019	01/23/2019	03/05/2019
CA	CUPA INYO	CUPA Facility List	Inyo County Environmental Health Services	04/02/2018	04/03/2018	06/14/2018
CA	UST KERN	Underground Storage Tank Sites & Tank Listing	Kern County Environment Health Services Depar	01/28/2019	02/07/2019	03/08/2019
CA	CUPA KINGS	CUPA Facility List	Kings County Department of Public Health	05/16/2019	05/17/2019	05/30/2019
CA	CUPA LAKE	CUPA Facility List	Lake County Environmental Health	02/08/2019	02/12/2019	03/12/2019
CA	CUPA LASSEN	CUPA Facility List	Lassen County Environmental Health	01/17/2019	01/18/2019	03/05/2019
CA	AOCONCERN	Key Areas of Concerns in Los Angeles County		03/30/2009	03/31/2009	10/23/2009
CA	HMS LOS ANGELES	HMS: Street Number List	Department of Public Works	12/19/2018	01/10/2019	03/07/2019
CA	LF LOS ANGELES	List of Solid Waste Facilities	La County Department of Public Works	01/14/2019	01/15/2019	03/07/2019
CA	LF LOS ANGELES CITY	City of Los Angeles Landfills	Engineering & Construction Division	01/01/2019	01/15/2019	03/07/2019
CA	LOS ANGELES AST	Active & Inactive AST Inventory	Los Angeles Fire Department	01/01/2019	04/05/2019	05/29/2019
CA	LOS ANGELES CO LF METHANE	Methane Producing Landfills	Los Angeles County Department of Public Works	04/30/2012	04/17/2019	05/29/2019
CA	LOS ANGELES HM	Active & Inactive Hazardous Materials Inventory	Los Angeles Fire Department	01/01/2019	04/05/2019	05/29/2019
CA	LOS ANGELES UST	Active & Inactive UST Inventory	Los Angeles Fire Department	01/01/2019	04/05/2019	05/29/2019
CA	SITE MIT LOS ANGELES	Site Mitigation List	Community Health Services	01/30/2019	02/01/2019	03/07/2019
CA	UST EL SEGUNDO	City of El Segundo Underground Storage Tank	City of El Segundo Fire Department	01/21/2017	04/19/2017	05/10/2017
CA	UST LONG BEACH	City of Long Beach Underground Storage Tank	City of Long Beach Fire Department	03/09/2017	03/10/2017	05/03/2017
CA	UST TORRANCE	City of Torrance Underground Storage Tank	City of Torrance Fire Department	10/02/2018	10/05/2018	11/02/2018
CA	CUPA MADERA	CUPA Facility List	Madera County Environmental Health	02/20/2019	02/22/2019	03/07/2019
CA	UST MARIN	Underground Storage Tank Sites	Public Works Department Waste Management	09/26/2018	10/04/2018	11/02/2018
CA	CUPA MERCED	CUPA Facility List	Merced County Environmental Health	03/11/2019	03/19/2019	05/08/2019
CA	CUPA MONO	CUPA Facility List	Mono County Health Department	02/21/2019	02/26/2019	04/01/2019
CA	CUPA MONTEREY	CUPA Facility Listing	Monterey County Health Department	02/05/2019	02/07/2019	03/05/2019
CA	LUST NAPA	Sites With Reported Contamination	Napa County Department of Environmental Manag	01/09/2017	01/11/2017	03/02/2017
CA	UST NAPA	Closed and Operating Underground Storage Tank Sites	Napa County Department of Environmental Manag	02/21/2019	02/22/2019	03/08/2019
CA	CUPA NEVADA	CUPA Facility List	Community Development Agency	05/20/2019	05/21/2019	05/30/2019
CA	IND_SITE ORANGE	List of Industrial Site Cleanups	Health Care Agency	05/01/2019	05/09/2019	05/30/2019
CA	LUST ORANGE	List of Underground Storage Tank Cleanups	Health Care Agency	05/01/2019	05/09/2019	05/30/2019
CA	UST ORANGE	List of Underground Storage Tank Facilities	Health Care Agency	01/02/2019	02/05/2019	03/08/2019
CA	MS PLACER	Master List of Facilities	Placer County Health and Human Services	02/28/2019	03/01/2019	04/12/2019
CA	CUPA PLUMAS	CUPA Facility List	Plumas County Environmental Health	01/14/2019	01/18/2019	03/05/2019
CA	LUST RIVERSIDE	Listing of Underground Tank Cleanup Sites	Department of Environmental Health	04/11/2019	04/12/2019	04/30/2019
CA	UST RIVERSIDE	Underground Storage Tank Tank List	Department of Environmental Health	01/29/2019	01/31/2019	03/08/2019

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CA	CS SACRAMENTO	Toxic Site Clean-Up List	Sacramento County Environmental Management	11/07/2018	01/04/2019	03/05/2019
CA	ML SACRAMENTO	Master Hazardous Materials Facility List	Sacramento County Environmental Management	11/07/2018	12/28/2018	03/05/2019
CA	CUPA SAN BENITO	CUPA Facility List	San Benito County Environmental Health	03/11/2019	03/13/2019	04/30/2019
CA	PERMITS SAN BERNARDINO	Hazardous Material Permits	San Bernardino County Fire Department Hazardo	02/27/2019	02/28/2019	04/02/2019
CA	HMMD SAN DIEGO	Hazardous Materials Management Division Database	Hazardous Materials Management Division	03/04/2019	03/05/2019	04/02/2019
CA	LF SAN DIEGO	Solid Waste Facilities	Department of Health Services	04/18/2018	04/24/2018	06/19/2018
CA	SAN DIEGO CO LOP	Local Oversight Program Listing	Department of Environmental Health	03/06/2019	03/06/2019	04/29/2019
CA	SAN DIEGO CO. SAM	Environmental Case Listing	San Diego County Department of Environmental	03/23/2010	06/15/2010	07/09/2010
CA	LUST SAN FRANCISCO	Local Oversite Facilities	Department Of Public Health San Francisco Cou	09/19/2008	09/19/2008	09/29/2008
CA	UST SAN FRANCISCO	Underground Storage Tank Information	Department of Public Health	11/05/2018	11/06/2018	12/14/2018
CA	UST SAN JOAQUIN	San Joaquin Co. UST	Environmental Health Department	06/22/2018	06/26/2018	07/11/2018
CA	CUPA SAN LUIS OBISPO	CUPA Facility List	San Luis Obispo County Public Health Departme	02/13/2019	02/15/2019	03/14/2019
CA	BI SAN MATEO	Business Inventory	San Mateo County Environmental Health Service	03/04/2019	03/13/2019	04/29/2019
CA	LUST SAN MATEO	Fuel Leak List	San Mateo County Environmental Health Service	03/29/2019	03/29/2019	05/29/2019
CA	CUPA SANTA BARBARA	CUPA Facility Listing	Santa Barbara County Public Health Department	09/08/2011	09/09/2011	10/07/2011
CA	CUPA SANTA CLARA	Cupa Facility List	Department of Environmental Health	02/13/2019	02/19/2019	03/06/2019
CA	HIST LUST SANTA CLARA	HIST LUST - Fuel Leak Site Activity Report	Santa Clara Valley Water District	03/29/2005	03/30/2005	04/21/2005
CA	LUST SANTA CLARA	LOP Listing	Department of Environmental Health	03/03/2014	03/05/2014	03/18/2014
CA	SAN JOSE HAZMAT	Hazardous Material Facilities	City of San Jose Fire Department	01/30/2019	02/01/2019	03/07/2019
CA	CUPA SANTA CRUZ	CUPA Facility List	Santa Cruz County Environmental Health	01/21/2017	02/22/2017	05/23/2017
CA	CUPA SHASTA	CUPA Facility List	Shasta County Department of Resource Manageme	06/15/2017	06/19/2017	08/09/2017
CA	LUST SOLANO	Leaking Underground Storage Tanks	Solano County Department of Environmental Man	03/05/2019	03/07/2019	04/29/2019
CA	UST SOLANO	Underground Storage Tanks	Solano County Department of Environmental Man	03/05/2019	03/07/2019	04/03/2019
CA	CUPA SONOMA	Cupa Facility List	County of Sonoma Fire & Emergency Services De	03/18/2019	03/26/2019	05/01/2019
CA	LUST SONOMA	Leaking Underground Storage Tank Sites	Department of Health Services	04/03/2019	04/11/2019	04/30/2019
CA	CUPA STANISLAUS	CUPA Facility List	Stanislaus County Department of Ennvironmenta	12/11/2018	12/13/2018	01/15/2019
CA	UST SUTTER	Underground Storage Tanks	Sutter County Environmental Health Services	02/28/2019	03/01/2019	04/03/2019
CA	CUPA TEHAMA	CUPA Facility List	Tehama County Department of Environmental Hea	12/13/2018	12/18/2018	01/15/2019
CA	CUPA TRINITY	CUPA Facility List	Department of Toxic Substances Control	01/18/2019	01/23/2019	03/06/2019
CA	CUPA TULARE	CUPA Facility List	Tulare County Environmental Health Services D	12/26/2018	12/27/2018	01/15/2019
CA	CUPA TUOLUMNE	CUPA Facility List	Divison of Environmental Health	04/23/2018	04/25/2018	06/25/2018
CA	BWT VENTURA	Business Plan, Hazardous Waste Producers, and Operating Unde	Ventura County Environmental Health Division	12/26/2018	01/24/2019	02/28/2019
CA	LF VENTURA	Inventory of Illegal Abandoned and Inactive Sites	Environmental Health Division	12/01/2011	12/01/2011	01/19/2012
CA	LUST VENTURA	Listing of Underground Tank Cleanup Sites	Environmental Health Division	05/29/2008	06/24/2008	07/31/2008
CA	MED WASTE VENTURA	Medical Waste Program List	Ventura County Resource Management Agency	03/26/2019	04/25/2019	05/30/2019
CA	UST VENTURA	Underground Tank Closed Sites List	Environmental Health Division	02/26/2019	03/13/2019	04/03/2019
CA	UST YOLO	Underground Storage Tank Comprehensive Facility Report	Yolo County Department of Health	12/26/2018	01/03/2019	01/16/2019
CA	CUPA YUBA	CUPA Facility List	Yuba County Environmental Health Department	02/08/2019	02/12/2019	03/06/2019

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date

STREET AND ADDRESS INFORMATION

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APPENDIX H

BORING LOGS

Leighton

SOIL BORING LOG

PROJECT NUMBER 12418.001
PROJECT NAME Former Fred Moiola School Project
LOCATION 9790 Finch Avenue, Fountain Valley, CA
DRILLING METHOD Hand Auger
SAMPLING METHOD Grab Sample
GROUND ELEVATION
TOP OF CASING N/A
LOGGED BY SMS
REMARKS

BORING/WELL NUMBER B1
DATE DRILLED 7/16/2019
CASING TYPE/DIAMETER N/A / N/A
SCREEN TYPE/SLOT N/A / N/A
GRAVEL PACK TYPE N/A
GROUT TYPE/QUANTITY N/A / N/A
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: Grass
1			B1-1.0		0	ML		@1': SILT, brown, loose, dry, rootlets, no O/S
2								
3			B1-2.5		0			@2.5': S.A.A.
4						CL		@5': Silty CLAY, dark brown, stiff, moist, no O/S
5			B1-5.0		0			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 5 feet bgs
No groundwater encountered
Backfilled with hydrated bentonite

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER 12418.001
PROJECT NAME Former Fred Moiola School Project
LOCATION 9790 Finch Avenue, Fountain Valley, CA
DRILLING METHOD Hand Auger
SAMPLING METHOD Grab Sample
GROUND ELEVATION
TOP OF CASING
LOGGED BY SMS
REMARKS

BORING/WELL NUMBER B2
DATE DRILLED 7/16/2019
CASING TYPE/DIAMETER
SCREEN TYPE/SLOT
GRAVEL PACK TYPE
GROUT TYPE/QUANTITY
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: Grass
1			B2-1.0		0	ML		@1': SILT, medium brown, medium dense, dry, rootlets, no O/S
2								
3			B2-2.5		0			@2.5': S.A.A. slightly moist
4						CL ML		@5': Clayey SILT, dark brown, medium stiff, slightly moist, oxidation, no O/S
5			B2-5.0		0			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 5 feet bgs
No groundwater encountered
Backfilled with hydrated bentonite

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER	12418.001	**BORING/WELL NUMBER**	B3
PROJECT NAME	Former Fred Moiola School Project	**DATE DRILLED**	7/16/2019
LOCATION	9790 Finch Avenue, Fountain Valley, CA	**CASING TYPE/DIAMETER**	
DRILLING METHOD	Hand Auger	**SCREEN TYPE/SLOT**	
SAMPLING METHOD	Grab Sample	**GRAVEL PACK TYPE**	
GROUND ELEVATION		**GROUT TYPE/QUANTITY**	
TOP OF CASING		**DEPTH TO WATER**	
LOGGED BY	SMS	**GROUND WATER ELEVATION**	
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: Grass
1			B3-1.0		0	ML		@1': SILT, medium brown, medium dense, dry, rootlets, no O/S
2								
3			B3-2.5		0	CL ML		@2.5': Clayey SILT, dark brown, medium stiff, slightly moist, some rootlets, no O/S
4								
5			B3-5.0		0	CL		@5': Sandy CLAY, medium brown, medium stiff, moist, fine to medium grained, oxidation, no O/S
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 5 feet bgs
No groundwater encountered
Backfilled with hydrated bentonite

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER 12418.001
PROJECT NAME Former Fred Moiola School Project
LOCATION 9790 Finch Avenue, Fountain Valley, CA
DRILLING METHOD Hand Auger
SAMPLING METHOD Grab Sample
GROUND ELEVATION
TOP OF CASING N/A
LOGGED BY SMS
REMARKS

BORING/WELL NUMBER B4
DATE DRILLED 7/16/2019
CASING TYPE/DIAMETER N/A / N/A
SCREEN TYPE/SLOT N/A / N/A
GRAVEL PACK TYPE N/A
GROUT TYPE/QUANTITY N/A / N/A
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: Grass
1			B4-1.0		0	ML		@1': SILT, light brown, medium dense, dry, rootlets, no O/S
2								
3			B4-2.5		0			@2.5': S.A.A. some sand
4						CL		@5': Silty CLAY, dark brown, soft, moist, oxidation, no O/S
5			B4-5.0		0			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 5 feet bgs
No groundwater encountered
Backfilled with hydrated bentonite

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER	12418.001	**BORING/WELL NUMBER**	B5
PROJECT NAME	Former Fred Moiola School Project	**DATE DRILLED**	7/16/2019
LOCATION	9790 Finch Avenue, Fountain Valley, CA	**CASING TYPE/DIAMETER**	
DRILLING METHOD	Hand Auger	**SCREEN TYPE/SLOT**	
SAMPLING METHOD	Grab Sample	**GRAVEL PACK TYPE**	
GROUND ELEVATION		**GROUT TYPE/QUANTITY**	
TOP OF CASING		**DEPTH TO WATER**	
LOGGED BY	SMS	**GROUND WATER ELEVATION**	
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: Grass
1			B5-1.0		0			@1': Sandy SILT, light brown, medium dense, slightly moist, fine to medium grained, rootlets, no O/S
2								
3			B5-2.5		0	SM		@2.5': S.A.A. medium brown, some coarse grained
4								
5			B5-5.0		0	SM		@5': Silty SAND, medium brown, medium dense, slightly moist, very fine to medium grained, no O/S
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 5 feet bgs
No groundwater encountered
Backfilled with hydrated bentonite

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER	12418.001	**BORING/WELL NUMBER**	B6
PROJECT NAME	Former Fred Moiola School Project	**DATE DRILLED**	7/16/2019
LOCATION	9790 Finch Avenue, Fountain Valley, CA	**CASING TYPE/DIAMETER**	
DRILLING METHOD	Hand Auger	**SCREEN TYPE/SLOT**	
SAMPLING METHOD	Grab Sample	**GRAVEL PACK TYPE**	
GROUND ELEVATION		**GROUT TYPE/QUANTITY**	
TOP OF CASING		**DEPTH TO WATER**	
LOGGED BY	SMS	**GROUND WATER ELEVATION**	
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: Grass
1			B6-1.0		0	SM		@1': Sandy SILT, light brown, medium dense, dry, fine to medium grained, rootlets, no O/S
2								
3			B6-2.5		0			@2.5': S.A.A. orange/brown, slightly moist
4						CL		@5': Silty CLAY, dark brown, stiff, slightly moist, no O/S
5			B6-5.0		0			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 5 feet bgs
No groundwater encountered
Backfilled with hydrated bentonite

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER 12418.001
PROJECT NAME Former Fred Moiola School Project
LOCATION 9790 Finch Avenue, Fountain Valley, CA
DRILLING METHOD Hand Auger
SAMPLING METHOD Grab Sample
GROUND ELEVATION
TOP OF CASING N/A
LOGGED BY SMS
REMARKS

BORING/WELL NUMBER B7
DATE DRILLED 7/16/2019
CASING TYPE/DIAMETER N/A / N/A
SCREEN TYPE/SLOT N/A / N/A
GRAVEL PACK TYPE N/A
GROUT TYPE/QUANTITY N/A / N/A
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: Grass
1			B7-1.0		0			@1': SILT, medium brown, medium dense, slightly moist, no O/S
2						ML		
3			B7-2.5		0			@2.5': S.A.A.
4						SM		@5': Sandy SILT, some clay, medium brown, medium dense and stiff, slightly moist, very fine to fine grained, no O/S
5			B7-5.0		0			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 5 feet bgs
Groundwater encountered at 10 feet
Backfilled with hydrated bentonite

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER 12418.001
PROJECT NAME Former Fred Moiola School Project
LOCATION 9790 Finch Avenue, Fountain Valley, CA
DRILLING METHOD Hand Auger
SAMPLING METHOD Grab Sample
GROUND ELEVATION
TOP OF CASING N/A
LOGGED BY SMS
REMARKS

BORING/WELL NUMBER B8
DATE DRILLED 7/16/2019
CASING TYPE/DIAMETER N/A / N/A
SCREEN TYPE/SLOT N/A / N/A
GRAVEL PACK TYPE N/A
GROUT TYPE/QUANTITY N/A / N/A
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: Grass
1			B8-1.0		0	SM		@1': Sandy SILT, medium brown, medium dense, dry, fine to medium grained, some rootlets, no O/S
2								
3			B8-2.5		0			@2.5': S.A.A. slightly moist, very fine to fine grained
4						CL		@5': Sandy CLAY, dark brown, stiff, slightly moist, very fine to fine grained, no O/S
5			B8-5.0		0			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 5 feet bgs
No groundwater encountered
Backfilled with hydrated bentonite

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER	12418.001	**BORING/WELL NUMBER**	B9
PROJECT NAME	Former Fred Moiola School Project	**DATE DRILLED**	7/16/2019
LOCATION	9790 Finch Avenue, Fountain Valley, CA	**CASING TYPE/DIAMETER**	N/A / N/A
DRILLING METHOD	Hand Auger	**SCREEN TYPE/SLOT**	N/A / N/A
SAMPLING METHOD	Grab Sample	**GRAVEL PACK TYPE**	N/A
GROUND ELEVATION		**GROUT TYPE/QUANTITY**	N/A / N/A
TOP OF CASING	N/A	**DEPTH TO WATER**	
LOGGED BY	SMS	**GROUND WATER ELEVATION**	
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: Grass
1			B9-1.0		0	SM		@1': Silty SAND, light brown, medium dense, slightly moist, fine to medium grained, some rootlets, no O/S
2								
3			B9-2.5		0	CL		@2.5': Silty CLAY, dark brown, stiff, slightly moist, no O/S
4						SC		@5': Clayey SAND, medium brown, soft, slightly moist, very fine to fine grained, no O/S
5			B9-5.0		0			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 5 feet bgs
No groundwater encountered
Backfilled with hydrated bentonite

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER	12418.001	**BORING/WELL NUMBER**	B10
PROJECT NAME	Former Fred Moiola School Project	**DATE DRILLED**	7/16/2019
LOCATION	9790 Finch Avenue, Fountain Valley, CA	**CASING TYPE/DIAMETER**	N/A / N/A
DRILLING METHOD	Hand Auger	**SCREEN TYPE/SLOT**	N/A / N/A
SAMPLING METHOD	Grab Sample	**GRAVEL PACK TYPE**	N/A
GROUND ELEVATION		**GROUT TYPE/QUANTITY**	N/A / N/A
TOP OF CASING	N/A	**DEPTH TO WATER**	
LOGGED BY	SMS	**GROUND WATER ELEVATION**	
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: 5" Asphalt
1			B10-1.0		0	SC		@1': Clayey SAND, orange/brown, moist, soft, fine to medium grained, no O/S
2								
3			B10-2.5		0			@2.5': S.A.A.
4								
5			B10-5.0		0	CL		@5': Sandy CLAY, dark gray, soft, moist, fine grained, oxidation, no O/S
6								
7								
8								
9								@10' S.A.A. very moist
10			B10-10		0			
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 10 feet bgs
Groundwater Encountered at 10.85 feet
Backfilled with hydrated bentonite and capped with cold patch asphalt

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER 12418.001
PROJECT NAME Former Fred Moiola School Project
LOCATION 9790 Finch Avenue, Fountain Valley, CA
DRILLING METHOD Hand Auger
SAMPLING METHOD Grab Sample
GROUND ELEVATION
TOP OF CASING
LOGGED BY SMS
REMARKS

BORING/WELL NUMBER B11
DATE DRILLED 7/16/2019
CASING TYPE/DIAMETER
SCREEN TYPE/SLOT
GRAVEL PACK TYPE
GROUT TYPE/QUANTITY
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: Grass
1			B11-1.0		0	ML		@1': SILT, brown, loose, dry, rootlets, no O/S
2								
3			B11-2.5		0			@2.5': S.A.A.
4						SC		@5': Clayey SAND, dark brown, stiff, slightly moist, no O/S
5			B11-5.0		0			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 5 feet bgs
Groundwater encountered at 11.4 feet
Backfilled with hydrated bentonite

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER	12418.001	**BORING/WELL NUMBER**	B12
PROJECT NAME	Former Fred Moiola School Project	**DATE DRILLED**	7/16/2019
LOCATION	9790 Finch Avenue, Fountain Valley, CA	**CASING TYPE/DIAMETER**	
DRILLING METHOD	Hand Auger	**SCREEN TYPE/SLOT**	
SAMPLING METHOD	Grab Sample	**GRAVEL PACK TYPE**	
GROUND ELEVATION		**GROUT TYPE/QUANTITY**	
TOP OF CASING		**DEPTH TO WATER**	
LOGGED BY	SMS	**GROUND WATER ELEVATION**	
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: Grass
1			B12-1.0		0	ML		@1': SILT, brown, loose, dry, some rootlets, no O/S
2								
3			B12-2.5		0			@2.5': S.A.A. some moisture
4						CL		@5': Silty CLAY, dark brown, soft, moist, some fine grained sand, oxidation, no O/S
5			B12-5.0		0			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 5 feet bgs
No groundwater encountered
Backfilled with hydrated bentonite

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER	12418.001	**BORING/WELL NUMBER**	B13
PROJECT NAME	Former Fred Moiola School Project	**DATE DRILLED**	7/16/2019
LOCATION	9790 Finch Avenue, Fountain Valley, CA	**CASING TYPE/DIAMETER**	
DRILLING METHOD	Hand Auger	**SCREEN TYPE/SLOT**	
SAMPLING METHOD	Grab Sample	**GRAVEL PACK TYPE**	
GROUND ELEVATION		**GROUT TYPE/QUANTITY**	
TOP OF CASING		**DEPTH TO WATER**	
LOGGED BY	SMS	**GROUND WATER ELEVATION**	
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: 4" Asphalt
1			B13-1.0		0	CL ML		@1': Clayey SILT, dark brown, medium stiff, slightly moist, no O/S
2								
			B13-2.5		0			@2.5': Sandy CLAY, dark brown, stiff, slightly moist, fine to medium grained, no O/S
3								
4								
5			B13-5.0		0			@5': S.A.A. moist, soft
6						CL		
7								
8								
9								
10			B13-10		0			@10': S.A.A dark gray, soft, moist, oxidation
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 10 feet bgs
Groundwater Encountered at 8.8 ft
Backfilled with hydrated bentonite and capped with cold patch asphalt

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER	12418.001	**BORING/WELL NUMBER**	B14
PROJECT NAME	Former Fred Moiola School Project	**DATE DRILLED**	7/16/2019
LOCATION	9790 Finch Avenue, Fountain Valley, CA	**CASING TYPE/DIAMETER**	
DRILLING METHOD	Hand Auger	**SCREEN TYPE/SLOT**	
SAMPLING METHOD	Grab Sample	**GRAVEL PACK TYPE**	
GROUND ELEVATION		**GROUT TYPE/QUANTITY**	
TOP OF CASING		**DEPTH TO WATER**	
LOGGED BY	SMS	**GROUND WATER ELEVATION**	
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: 4" Asphalt
1			B14-1.0		0	SM		
2								
3			B14-2.5		0			@2.5': S.A.A.
4								@1': Sandy SILT, medium brown, medium dense, slightly moist, fine grained, some medium grained, no O/S
5			B14-5.0		0			@5': S.A.A. moist, fine grained
6								
7								
8								
9						CL		@10': Sandy CLAY, dark brown, soft, very moist, fine grained, no O/S
10			B14-10		.7			
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 10 feet bgs
Groundwater Encountered at 10 ft
Backfilled with hydrated bentonite and capped with cold patch asphalt

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER 12418.001
PROJECT NAME Former Fred Moiola School Project
LOCATION 9790 Finch Avenue, Fountain Valley, CA
DRILLING METHOD Hand Auger
SAMPLING METHOD Grab Sample
GROUND ELEVATION
TOP OF CASING
LOGGED BY SMS
REMARKS

BORING/WELL NUMBER B15
DATE DRILLED 7/16/2019
CASING TYPE/DIAMETER
SCREEN TYPE/SLOT
GRAVEL PACK TYPE
GROUT TYPE/QUANTITY
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: Grass
1			B15-1.0		0	CL ML		@1': Clayey SILT, light brown, stiff, slightly moist, some rootlets, no O/S
2								
3			B15-2.5		0	CL		@2.5': Silty CLAY, brown, medium stiff, slightly moist, fine to medium grained, no O/S
4								
5			B15-5.0		0	CL		@5': S.A.A.
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 5 feet bgs
No groundwater encountered
Backfilled with hydrated bentonite

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER 12418.001
PROJECT NAME Former Fred Moiola School Project
LOCATION 9790 Finch Avenue, Fountain Valley, CA
DRILLING METHOD Hand Auger
SAMPLING METHOD Grab Sample
GROUND ELEVATION
TOP OF CASING
LOGGED BY SMS
REMARKS

BORING/WELL NUMBER B16
DATE DRILLED 7/16/2019
CASING TYPE/DIAMETER
SCREEN TYPE/SLOT
GRAVEL PACK TYPE
GROUT TYPE/QUANTITY
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: Grass
1			B16-1.0		0	ML		@1': SILT, medium brown, medium dense, slightly moist, some rootlets, no O/S
2								
3			B16-2.5		0			@2.5': S.A.A.
4						CL		@5': Silty CLAY, dark brown, stiff, moist, oxidation, no O/S
5			B16-5.0		0			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 5 feet bgs
No groundwater encountered
Backfilled with hydrated bentonite

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER	12418.001	**BORING/WELL NUMBER**	B17
PROJECT NAME	Former Fred Moiola School Project	**DATE DRILLED**	7/16/2019
LOCATION	9790 Finch Avenue, Fountain Valley, CA	**CASING TYPE/DIAMETER**	
DRILLING METHOD	Hand Auger	**SCREEN TYPE/SLOT**	
SAMPLING METHOD	Grab Sample	**GRAVEL PACK TYPE**	
GROUND ELEVATION		**GROUT TYPE/QUANTITY**	
TOP OF CASING		**DEPTH TO WATER**	
LOGGED BY	SMS	**GROUND WATER ELEVATION**	
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: Grass
1			B17-1.0		0	ML		@1': SILT, medium brown, medium dense, dry, some rootlets, no O/S
2								
3			B17-2.5		0			@2.5': S.A.A. some sand
4						SM		@5': Silty SAND, dark brown, medium dense, moist, oxidation, no O/S
5			B17-5.0		0			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 5 feet bgs
No groundwater encountered
Backfilled with hydrated bentonite

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER 12418.001
PROJECT NAME Former Fred Moiola School Project
LOCATION 9790 Finch Avenue, Fountain Valley, CA
DRILLING METHOD Hand Auger
SAMPLING METHOD Grab Sample
GROUND ELEVATION
TOP OF CASING
LOGGED BY SMS
REMARKS

BORING/WELL NUMBER B18
DATE DRILLED 7/16/2019
CASING TYPE/DIAMETER
SCREEN TYPE/SLOT
GRAVEL PACK TYPE
GROUT TYPE/QUANTITY
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: Grass
1			B18-1.0		0	SM		@1': Sandy SILT, medium brown, medium dense, dry, fine to medium grained, no O/S
2								
3			B18-2.5		0	SM		@2.5': Silty SAND, medium brown, medium dense, moist, fine grained, no O/S
4								@5': S.A.A. Very moist, very fined grained
5			B18-5.0		0			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 5 feet bgs
No groundwater encountered
Backfilled with hydrated bentonite

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER 12418.001
PROJECT NAME Former Fred Moiola School Project
LOCATION 9790 Finch Avenue, Fountain Valley, CA
DRILLING METHOD Hand Auger
SAMPLING METHOD Grab Sample
GROUND ELEVATION
TOP OF CASING
LOGGED BY SMS
REMARKS

BORING/WELL NUMBER B19
DATE DRILLED 7/16/2019
CASING TYPE/DIAMETER
SCREEN TYPE/SLOT
GRAVEL PACK TYPE
GROUT TYPE/QUANTITY
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: Grass
1			B19-1.0		0	ML		@1': SILT, medium brown, medium dense, dry, rootlets, no O/S
2								
3			B19-2.5		0			@2.5': S.A.A.
4						CL ML		@5': Clayey SILT, brown, medium stiff, moist, some fine grained sand, no O/S
5			B19-5.0		0			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 5 feet bgs
No groundwater encountered
Backfilled with hydrated bentonite

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER	12418.001	**BORING/WELL NUMBER**	B20
PROJECT NAME	Former Fred Moiola School Project	**DATE DRILLED**	7/16/2019
LOCATION	9790 Finch Avenue, Fountain Valley, CA	**CASING TYPE/DIAMETER**	
DRILLING METHOD	Hand Auger	**SCREEN TYPE/SLOT**	
SAMPLING METHOD	Grab Sample	**GRAVEL PACK TYPE**	
GROUND ELEVATION		**GROUT TYPE/QUANTITY**	
TOP OF CASING		**DEPTH TO WATER**	
LOGGED BY	SMS	**GROUND WATER ELEVATION**	
REMARKS			

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: Grass
1			B20-1.0		0	ML		@1': SILT, medium brown, medium dense, moist, rootlets, no O/S
2								
3			B20-2.5		0			@2.5': S.A.A. some fine grained sand
4						SM		@5': Silty SAND, dark brown, dense, moist, fine grained, oxidation, no O/S
5			B20-5.0		0			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 5 feet bgs
No groundwater encountered
Backfilled with hydrated bentonite

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

SOIL BORING LOG

PROJECT NUMBER 12418.001
PROJECT NAME Former Fred Moiola School Project
LOCATION 9790 Finch Avenue, Fountain Valley, CA
DRILLING METHOD Hand Auger
SAMPLING METHOD Grab Sample
GROUND ELEVATION
TOP OF CASING
LOGGED BY SMS
REMARKS

BORING/WELL NUMBER B21
DATE DRILLED 7/16/2019
CASING TYPE/DIAMETER
SCREEN TYPE/SLOT
GRAVEL PACK TYPE
GROUT TYPE/QUANTITY
DEPTH TO WATER
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								@Surface: Grass
1			B21-1.0		0	CL ML		@1': Clayey SILT, medium brown, medium dense, slightly moist, rootlets, no O/S
2								
3			B21-2.5		0	CL		@2.5': Silty CLAY, brown, medium stiff, moist, some rootlets, no O/S
4								
5			B21-5.0		0			@5': S.A.A. stiff, oxidation
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Notes:
Total Depth of Boring: 5 feet bgs
No groundwater encountered
Backfilled with hydrated bentonite

GE_SBL MOIOLA SCHOOL BORING LOGS.GPJ LAEWNN01.GDT 7/24/19

APPENDIX I

LABORATORY ANALYTICAL REPORTS

Leighton

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

July 12, 2019

Ms. Meredith Church
Leighton & Associates, Inc.
17781 Cowan
Irvine, CA 92614

Dear Ms. Church:

This letter presents the results of the soil vapor investigation conducted by Optimal Technology (Optimal), for Leighton & Associates, Inc. on July 11, 2019. The study was performed at 9790 Finch Ave., Fountain Valley, California.

Optimal was contracted to perform a soil vapor survey at this site to screen for possible chlorinated solvents and aromatic hydrocarbons. The primary objective of this soil vapor investigation was to determine if soil vapor contamination is present in the subsurface soil.

Gas Sampling Method

Gas sampling was performed by hydraulically pushing soil gas probes to a depth of 5.0 feet below ground surface (bgs). An electric rotary hammer drill was used to drill a 1.0-inch diameter hole through the overlying surface to allow probe placement when required. The same electric hammer drill was used to push probes in areas of resistance during placement.

At each sampling location, an electric vacuum pump set to draw 0.2 liters per minute (L/min) of soil vapor was attached to the probe and purged prior to sample collection. Vapor samples were obtained in gas-tight syringes by drawing the sample through a luer-lock connection which connects the sampling probe and the vacuum pump. Samples were immediately injected into the gas chromatograph/purge and trap after collection. New tubing was used at each sampling point to prevent cross contamination.

All analyses were performed on a laboratory grade Agilent model 6890N gas chromatograph equipped with an Agilent model 5973N Mass Spectra Detector and Tekmar LSC 3100 Purge and Trap. A Restek column using helium as the carrier gas was used to perform all analysis. All results were collected on a personal computer utilizing Agilent's MS and chromatographic data collection and handling system.

Quality Assurance

5-Point Calibration
The initial five-point calibration consisted of 20, 50, 100, 200 and 500 ul injections of the calibration standard. A calibration factor on each analyte was generated using a best fit line method using the Agilent data system. If the r^2 factor generated from this line was not greater than 0.990, an additional five-point calibration would have been performed. Method reporting limits were calculated to be 0.001-1.0 micrograms per Liter (ug/L) for the individual compounds.

A daily calibration check was performed using a pre-mixed standard supplied by Scotty Analyzed Gases. The standard contained common halogenated solvents and aromatic hydrocarbons (see Table 1). The individual compound concentrations in the standards ranged between 0.025 nanograms per microliter (ng/ul) and 0.25 ng/ul.

TABLE 1

Dichlorodifluoromethane	Carbon Tetrachloride	Chloroethane
Trichlorofluoromethane	1,2-Dichloroethane	Benzene
1,1-Dichloroethene	Trichloroethene	Toluene
Methylene Chloride	1,1,2-Trichloroethane	Ethylbenzene
trans-1,2-Dichloroethene	Tetrachloroethene	m-/p-Xylene
1,1-Dichloroethane	Chloroform	o-Xylene
cis-1,2-Dichloroethene	1,1,1,2-Tetrachloroethane	Vinyl Chloride
1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	Freon 113
4-Methyl-2-Pentanone	Cyclohexane	Acetone
Chlorobenzene	2-Butanone	Isobutane

Sample Replicates
A replicate analysis (duplicate) was run to evaluate the reproducibility of the sampling system and instrument. The difference between samples did not vary more than 20%.

Equipment Blanks
Blanks were run at the beginning of each workday and after calibrations. The blanks were collected using an ambient air sample. These blanks checked the septum, syringe, GC column, GC detector and the ambient air. Contamination was not found in any of the blanks analyzed during this investigation. Blank results are given along with the sample results.

Tracer Gas Leak Test
A tracer gas was applied to the soil gas probes at each point of connection in which ambient air could enter the sampling system. These points include the top of the sampling probe where the tubing meets the probe connection and the surface bentonite seals. Isobutane was used as the tracer gas. No Isobutane was found in any of the samples collected.

Purge Volume
The standard purge volume of three volumes was purged in accordance with the July 2015 DTSC/RWQCB Advisory for Active Soil Gas Investigations.

Shut-in Test
A shut-in test was conducted prior to purging or sampling each location to check for leaks in the above-ground sampling system. The system was evaluated to a minimum measured vacuum of 100 inches of water. The vacuum gauge was calibrated and sensitive enough to indicate a water pressure change of at least 0.5 inches.

Scope of Work

To achieve the objective of this investigation a total of 11 vapor samples were collected from 10 locations at the site. Sampling depths, vacuum readings, purge volume and sampling volumes are given on the analytical results page. All the collected vapor samples were analyzed on-site using Optimal's mobile laboratory.

Subsurface Conditions

Subsurface soil conditions at this site offered sampling flows at 0" water vacuum. Depth to groundwater was unknown at the time of the investigation.

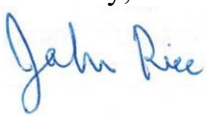
Results

During this vapor investigation, multiple analytes were detected in several samples collected above the listed reporting limit. Please see the complete table of analytical results included with this report.

Disclaimer

All conclusions presented in this letter are based solely on the information collected by the soil vapor survey conducted by Optimal Technology. Soil vapor testing is only a subsurface screening tool and does not represent actual contaminant concentrations in either the soil and/or groundwater. We enjoyed working with you on this project and look forward to future projects. If you have any questions, please contact me at (877) 764-5427.

Sincerely,



John Rice
Project Manager

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

SOIL VAPOR RESULTS

Site Name: 9790 Finch Ave., Fountain Valley, CA
Lab Name: Optimal Technology
Date: 7/11/19
Analyst: J. Rice **Collector:** J. Rice
Inst. ID: Agilent 6890N
Method: Modified EPA 8260B
Detector: Agilent 5973N Mass Spectrometer

SAMPLE ID	BLANK-1	ENV-1	ENV-2	ENV-3	ENV-4	ENV-5	ENV-6	ENV-7
Sampling Depth (Ft.)	N/A	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Purge Volume (ml)	N/A	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Vacuum (in. of Water)	N/A	0	0	0	0	0	0	0
Injection Volume (ul)	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Dilution Factor	1	1	1	1	1	1	1	1

COMPOUND	REP. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)
Dichlorodifluoromethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	0.03	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.05	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.004	ND	ND	ND	ND	**0.03**	ND	ND	ND
1,1,1-Trichloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.002	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.003	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	0.01	ND	ND	ND	ND	**9.15**	**0.10**	ND	**0.15**
1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	0.01	ND	ND	ND	ND	**11.43**	**10.27**	**0.01**	ND
1,1,1,2-Tetrachloroethane	0.01	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.001	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.001	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.00	ND	ND	ND	ND	**1.04**	ND	ND	ND
2-Butanone (MEK)	1.00	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.20	ND	ND	ND	ND	**6.73**	ND	ND	**4.31**
Cyclohexane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.003	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.03	ND	ND	ND	ND	ND	ND	ND	ND
m/p-Xylene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Isobutane (Tracer Gas)	1.00	ND	ND	ND	ND	ND	ND	ND	ND

Note: ND = Below Listed Reporting Limit

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

SOIL VAPOR RESULTS

Site Name: 9790 Finch Ave., Fountain Valley, CA
Lab Name: Optimal Technology
Date: 7/11/19
Analyst: J. Rice **Collector:** J. Rice
Inst. ID: Agilent 6890N
Method: Modified EPA 8260B
Detector: Agilent 5973N Mass Spectrometer
Page: 2 of 2

SAMPLE ID	ENV-8	ENV-9	ENV-10	ENV-10 Dup				
Sampling Depth (Ft.)	5.0	5.0	5.0	5.0				
Purge Volume (ml)	1,500	1,500	1,500	1,500				
Vacuum (in. of Water)	0	0	0	0				
Injection Volume (ul)	50,000	50,000	50,000	50,000				
Dilution Factor	1	1	1	1				

COMPOUND	REP. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)				
Dichlorodifluoromethane	1.00	ND	ND	ND	ND				
Chloroethane	1.00	ND	ND	ND	ND				
Trichlorofluoromethane	1.00	ND	ND	ND	ND				
Freon 113	1.00	ND	ND	ND	ND				
Methylene Chloride	0.03	ND	ND	ND	ND				
1,1-Dichloroethane	0.05	ND	ND	ND	ND				
Chloroform	0.004	ND	ND	ND	ND				
1,1,1-Trichloroethane	1.00	ND	ND	ND	ND				
Carbon Tetrachloride	0.002	ND	ND	ND	ND				
1,2-Dichloroethane	0.003	ND	ND	ND	ND				
Trichloroethene (TCE)	0.01	ND	ND	ND	ND				
1,1,2-Trichloroethane	0.005	ND	ND	ND	ND				
Tetrachloroethene (PCE)	0.01	ND	ND	ND	ND				
1,1,1,2-Tetrachloroethane	0.01	ND	ND	ND	ND				
1,1,2,2-Tetrachloroethane	0.001	ND	ND	ND	ND				
Vinyl Chloride	0.001	ND	ND	ND	ND				
Acetone	1.00	ND	ND	ND	ND				
1,1-Dichloroethene	1.00	ND	ND	ND	ND				
trans-1,2-Dichloroethene	1.00	ND	ND	ND	ND				
2-Butanone (MEK)	1.00	ND	ND	ND	ND				
cis-1,2-Dichloroethene	0.20	**0.46**	ND	ND	ND				
Cyclohexane	1.00	ND	ND	ND	ND				
Benzene	0.003	ND	ND	ND	ND				
4-Methyl-2-Pentanone	1.00	ND	ND	ND	ND				
Toluene	1.00	ND	ND	ND	ND				
Chlorobenzene	1.00	ND	ND	ND	ND				
Ethylbenzene	0.03	ND	ND	ND	ND				
m/p-Xylene	1.00	ND	ND	ND	ND				
o-Xylene	1.00	ND	ND	ND	ND				
Isobutane (Tracer Gas)	1.00	ND	ND	ND	ND				

Note: ND = Below Listed Reporting Limit

1667 Cross Bridge Place, Thousand Oaks, CA 91362 • Toll Free (877) SOIL GAS (764-5427) • (818) 734-6230 • Fax (818) 734-6235

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

CHAIN OF CUSTODY FORM

Site Name/Number		PO# / Project Ref#
Site Address	**9790 Finch Ave., Fountain Valley, CA**	
Company Name		
Contact Person(s):	Phone#	Email:
Comments:		

				TESTS REQUIRED (please mark with an "X")			
Sample Identification	Sampling Device	Date Collected	Time Collected	**Soil Gas Mod 8260B**	**Soil Gas Mod 8021B**	**Soil Gas Mod 8015**	**Notes**
BLANK-1	Syringe	7/11/19	7:31 AM	x			
ENV-1	Syringe	7/11/19	7:55 AM	x			
ENV-2	Syringe	7/11/19	8:26 AM	x			
ENV-3	Syringe	7/11/19	8:53 AM	x			
ENV-4	Syringe	7/11/19	9:23 AM	x			
ENV-5	Syringe	7/11/19	10:00 AM	x			
ENV-6	Syringe	7/11/19	10:27 AM	x			
ENV-7	Syringe	7/11/19	10:55 AM	x			
ENV-8	Syringe	7/11/19	11:17 AM	x			
ENV-9	Syringe	7/11/19	11:48 AM	x			
ENV-10	Syringe	7/11/19	12:10 PM	x			
ENV-10Dup	Syringe	7/11/19	12:29 PM	x			

Collected & Tested by:

John Rice

1667 Cross Bridge Place, Thousand Oaks, CA 91362 • Toll Free (877) SOIL GAS (764-5427) • (818) 734-6230 • Fax (818) 734-6235

July 18, 2019

Meredith Church
Leighton & Associates
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 681-4208
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 1902696

Client Reference : Brookfield - Moiola School, FV, 12418.001

Enclosed are the results for sample(s) received on July 16, 2019 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Edgar Caballero
President & Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B4-1.0	1902696-01	Soil	7/16/19 0:00	7/16/19 11:14
B4-2.5	1902696-02	Soil	7/16/19 0:00	7/16/19 11:14
B4-5.0	1902696-03	Soil	7/16/19 0:00	7/16/19 11:14
B7-1.0	1902696-04	Soil	7/16/19 0:00	7/16/19 11:14
B7-2.5	1902696-05	Soil	7/16/19 0:00	7/16/19 11:14
B7-5.0	1902696-06	Soil	7/16/19 0:00	7/16/19 11:14
B12-1.0	1902696-07	Soil	7/16/19 0:00	7/16/19 11:14
B12-1.0D	1902696-08	Soil	7/16/19 0:00	7/16/19 11:14
B12-2.5	1902696-09	Soil	7/16/19 0:00	7/16/19 11:14
B12-5.0	1902696-10	Soil	7/16/19 0:00	7/16/19 11:14
B14-1.0	1902696-11	Soil	7/16/19 0:00	7/16/19 11:14
B14-2.5	1902696-12	Soil	7/16/19 0:00	7/16/19 11:14
B14-2.5D	1902696-13	Soil	7/16/19 0:00	7/16/19 11:14
B14-5.0	1902696-14	Soil	7/16/19 0:00	7/16/19 11:14
B14-10.0	1902696-15	Soil	7/16/19 0:00	7/16/19 11:14
B15-1.0	1902696-16	Soil	7/16/19 0:00	7/16/19 11:14
B15-2.5	1902696-17	Soil	7/16/19 0:00	7/16/19 11:14
B15-5.0	1902696-18	Soil	7/16/19 0:00	7/16/19 11:14
B16-1.0	1902696-19	Soil	7/16/19 0:00	7/16/19 11:14
B16-2.5	1902696-20	Soil	7/16/19 0:00	7/16/19 11:14
B16-5.0	1902696-21	Soil	7/16/19 0:00	7/16/19 11:14
B17-1.0	1902696-22	Soil	7/16/19 0:00	7/16/19 11:14
B17-2.5	1902696-23	Soil	7/16/19 0:00	7/16/19 11:14
B17-5.0	1902696-24	Soil	7/16/19 0:00	7/16/19 11:14
B18-1.0	1902696-25	Soil	7/16/19 0:00	7/16/19 11:14
B18-2.5	1902696-26	Soil	7/16/19 0:00	7/16/19 11:14
B18-5.0	1902696-27	Soil	7/16/19 0:00	7/16/19 11:14
B19-1.0	1902696-28	Soil	7/16/19 0:00	7/16/19 11:14
B19-2.5	1902696-29	Soil	7/16/19 0:00	7/16/19 11:14
B19-5.0	1902696-30	Soil	7/16/19 0:00	7/16/19 11:14
B19-5.0D	1902696-31	Soil	7/16/19 0:00	7/16/19 11:14
B20-1.0	1902696-32	Soil	7/16/19 0:00	7/16/19 11:14
B20-2.5	1902696-33	Soil	7/16/19 0:00	7/16/19 11:14
B20-5.0	1902696-34	Soil	7/16/19 0:00	7/16/19 11:14
B21-1.0	1902696-35	Soil	7/16/19 0:00	7/16/19 11:14
B21-2.5	1902696-36	Soil	7/16/19 0:00	7/16/19 11:14
B21-5.0	1902696-37	Soil	7/16/19 0:00	7/16/19 11:14

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B4-1.0

Lab ID: 1902696-01

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	1	B9G0404	07/17/2019	07/18/19 11:53	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**2.0**	2.0	1	B9G0399	07/16/2019	07/17/19 10:34	
4,4´-DDE	**310**	20	10	B9G0399	07/16/2019	07/17/19 16:51	
4,4´-DDT	**60**	2.0	1	B9G0399	07/16/2019	07/17/19 10:34	

Client Sample ID B4-2.5

Lab ID: 1902696-02

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	1	B9G0404	07/17/2019	07/18/19 11:57	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B7-1.0

Lab ID: 1902696-04

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.6**	1.0	1	B9G0404	07/17/2019	07/18/19 12:01	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**640**	20	10	B9G0399	07/16/2019	07/17/19 17:02	
4,4´-DDT	**65**	2.0	1	B9G0399	07/16/2019	07/17/19 11:05	
Dieldrin	**2.9**	2.0	1	B9G0399	07/16/2019	07/17/19 11:05	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B7-2.5

Lab ID: 1902696-05

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.7**	1.0	1	B9G0404	07/17/2019	07/18/19 12:02	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**570**	20	10	B9G0399	07/16/2019	07/17/19 17:12	
4,4´-DDT	**270**	20	10	B9G0399	07/16/2019	07/17/19 17:12	
Dieldrin [2C]	**12**	2.0	1	B9G0399	07/16/2019	07/17/19 11:16	
Toxaphene	**680**	500	10	B9G0399	07/16/2019	07/17/19 17:12	

Client Sample ID B7-5.0

Lab ID: 1902696-06

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**6.2**	2.0	1	B9G0399	07/16/2019	07/17/19 11:26	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B12-1.0

Lab ID: 1902696-07

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.6**	1.0	1	B9G0404	07/17/2019	07/18/19 12:03	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**2.6**	2.0	1	B9G0399	07/16/2019	07/17/19 10:44	
4,4´-DDE	**830**	40	20	B9G0399	07/16/2019	07/17/19 10:23	
4,4´-DDT	**47**	2.0	1	B9G0399	07/16/2019	07/17/19 10:44	
Dieldrin [2C]	**4.5**	2.0	1	B9G0399	07/16/2019	07/17/19 10:44	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B12-1.0D

Lab ID: 1902696-08

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.9**	1.0	1	B9G0404	07/17/2019	07/18/19 12:04	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**2.4**	2.0	1	B9G0399	07/16/2019	07/17/19 11:37	
4,4´-DDE	**240**	40	20	B9G0399	07/16/2019	07/17/19 17:23	
4,4´-DDT	**17**	2.0	1	B9G0399	07/16/2019	07/17/19 11:37	
Dieldrin [2C]	**2.4**	2.0	1	B9G0399	07/16/2019	07/17/19 11:37	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.0(
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B12-2.5

Lab ID: 1902696-09

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.7**	1.0	1	B9G0404	07/17/2019	07/18/19 12:06	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**31**	2.0	1	B9G0399	07/16/2019	07/17/19 11:47	
4,4´-DDT	**6.6**	2.0	1	B9G0399	07/16/2019	07/17/19 11:47	

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Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B14-1.0

Lab ID: 1902696-11

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	1	B9G0404	07/17/2019	07/18/19 12:07	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**42**	2.0	1	B9G0399	07/16/2019	07/17/19 12:19	
4,4´-DDT	**3.1**	2.0	1	B9G0399	07/16/2019	07/17/19 12:19	

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Leighton & Associates		Project Number :	Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street		Report To :	Meredith Church
Irvine , CA 92614		Reported :	07/18/2019

DETECTION SUMMARY

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	**20**	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Toluene	**11**	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B14-2.5

Lab ID: 1902696-12

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.8**	1.0	1	B9G0404	07/17/2019	07/18/19 12:08	

Volatile Organic Compounds by EPA 5035 / EPA 8260B — **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	**65**	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Carbon disulfide	**6.1**	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Ethylbenzene	**6.4**	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Toluene	**47**	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B14-2.5D

Lab ID: 1902696-13

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.3**	1.0	1	B9G0404	07/17/2019	07/18/19 12:09	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**6.7**	2.0	1	B9G0399	07/16/2019	07/17/19 12:40	

Client Sample ID B14-10.0

Lab ID: 1902696-15

Volatile Organic Compounds by EPA 5035 / EPA 8260B — **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	**52**	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Trichloroethene	**7.1**	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B15-1.0

Lab ID: 1902696-16

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	1	B9G0404	07/17/2019	07/18/19 12:10	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**20**	2.0	1	B9G0399	07/16/2019	07/17/19 13:01	
4,4´-DDT	**5.0**	2.0	1	B9G0399	07/16/2019	07/17/19 13:01	

Certificate of Analysis

Leighton & Associates		Project Number :	Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street		Report To :	Meredith Church
Irvine , CA 92614		Reported :	07/18/2019

DETECTION SUMMARY

Client Sample ID B15-2.5

Lab ID: 1902696-17

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.3**	1.0	1	B9G0404	07/17/2019	07/18/19 12:12	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**6.4**	2.0	1	B9G0399	07/16/2019	07/17/19 13:11	
4,4´-DDT	**2.7**	2.0	1	B9G0399	07/16/2019	07/17/19 13:11	

Client Sample ID B15-5.0

Lab ID: 1902696-18

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**3.1**	2.0	1	B9G0399	07/16/2019	07/17/19 13:22	

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Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B16-1.0

Lab ID: 1902696-19

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.2**	1.0	1	B9G0404	07/17/2019	07/18/19 12:15	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**35**	2.0	1	B9G0399	07/16/2019	07/17/19 13:32	
4,4´-DDT	**4.5**	2.0	1	B9G0399	07/16/2019	07/17/19 13:32	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B16-2.5

Lab ID: 1902696-20

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	1	B9G0404	07/17/2019	07/18/19 12:17	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**2.4**	2.0	1	B9G0399	07/16/2019	07/17/19 13:42	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B17-1.0

Lab ID: 1902696-22

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.9**	1.0	1	B9G0404	07/17/2019	07/18/19 12:18	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD [2C]	**2.8**	2.0	1	B9G0415	07/16/2019	07/17/19 18:04	
4,4´-DDE	**180**	20	10	B9G0415	07/16/2019	07/18/19 14:58	
4,4´-DDT	**43**	2.0	1	B9G0415	07/16/2019	07/17/19 18:04	

Client Sample ID B17-2.5

Lab ID: 1902696-23

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	1	B9G0404	07/17/2019	07/18/19 12:19	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B18-1.0

Lab ID: 1902696-25

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	1	B9G0404	07/17/2019	07/18/19 12:20	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**3.0**	2.0	1	B9G0415	07/16/2019	07/17/19 18:36	
4,4´-DDE	**120**	20	10	B9G0415	07/16/2019	07/18/19 15:08	
4,4´-DDT	**29**	2.0	1	B9G0415	07/16/2019	07/17/19 18:36	

Client Sample ID B18-2.5

Lab ID: 1902696-26

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.5**	1.0	1	B9G0404	07/17/2019	07/18/19 12:21	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B19-1.0

Lab ID: 1902696-28

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.1**	1.0	1	B9G0404	07/17/2019	07/18/19 12:22	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**64**	2.0	1	B9G0415	07/16/2019	07/18/19 16:11	
4,4´-DDT	**9.5**	2.0	1	B9G0415	07/16/2019	07/18/19 16:11	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B19-2.5

Lab ID: 1902696-29

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**4.8**	1.0	1	B9G0404	07/17/2019	07/18/19 12:24	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**4.4**	2.0	1	B9G0415	07/16/2019	07/17/19 19:28	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B20-1.0

Lab ID: 1902696-32

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.3**	1.0	1	B9G0405	07/17/2019	07/18/19 12:30	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**3.3**	2.0	1	B9G0415	07/16/2019	07/17/19 20:10	
4,4´-DDE	**110**	20	10	B9G0415	07/16/2019	07/18/19 15:50	
4,4´-DDT	**20**	2.0	1	B9G0415	07/16/2019	07/17/19 20:10	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B20-2.5

Lab ID: 1902696-33

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**5.9**	1.0	1	B9G0405	07/17/2019	07/18/19 12:34	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE [2C]	**19**	2.0	1	B9G0415	07/16/2019	07/17/19 20:21	
4,4´-DDT	**3.0**	2.0	1	B9G0415	07/16/2019	07/17/19 20:21	

Client Sample ID B20-5.0

Lab ID: 1902696-34

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE [2C]	**2.2**	2.0	1	B9G0415	07/16/2019	07/17/19 20:31	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B21-1.0

Lab ID: 1902696-35

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.0**	1.0	1	B9G0405	07/17/2019	07/18/19 12:35	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**2.5**	2.0	1	B9G0415	07/16/2019	07/17/19 20:42	
4,4´-DDE	**100**	20	10	B9G0415	07/16/2019	07/18/19 16:01	
4,4´-DDT	**6.4**	2.0	1	B9G0415	07/16/2019	07/17/19 20:42	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

DETECTION SUMMARY

Client Sample ID B21-2.5

Lab ID: 1902696-36

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.4**	1.0	1	B9G0405	07/17/2019	07/18/19 12:36	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**2.6**	2.0	1	B9G0415	07/16/2019	07/18/19 14:37	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B4-1.0
Lab ID: 1902696-01

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	1	B9G0404	07/17/2019	07/18/19 11:53	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**2.0**	2.0	1	B9G0399	07/16/2019	07/17/19 10:34	
4,4´-DDE	**310**	20	10	B9G0399	07/16/2019	07/17/19 16:51	
4,4´-DDT	**60**	2.0	1	B9G0399	07/16/2019	07/17/19 10:34	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:34	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:34	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:34	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:34	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 10:34	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:34	
Dieldrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:34	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:34	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:34	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:34	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:34	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:34	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:34	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:34	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:34	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:34	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:34	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 10:34	
Toxaphene	ND	50	1	B9G0399	07/16/2019	07/17/19 10:34	
Surrogate: Decachlorobiphenyl	*84.9 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 16:51*	
Surrogate: Decachlorobiphenyl	*81.7 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 10:34*	
Surrogate: Tetrachloro-m-xylene	*85.6 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 16:51*	
Surrogate: Tetrachloro-m-xylene	*81.8 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 10:34*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B4-2.5

Lab ID: 1902696-02

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.7**	1.0	1	B9G0404	07/17/2019	07/18/19 11:57	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:08	
4,4′-DDE	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:08	
4,4′-DDT	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:08	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:08	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:08	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:08	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:08	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 12:08	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:08	
Dieldrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:08	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:08	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:08	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:08	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:08	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:08	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:08	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:08	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:08	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:08	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:08	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 12:08	
Toxaphene	ND	50	1	B9G0399	07/16/2019	07/17/19 12:08	
Surrogate: Decachlorobiphenyl	*64.7 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 12:08*	
Surrogate: Tetrachloro-m-xylene	*63.1 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 12:08*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B4-5.0

Lab ID: 1902696-03

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:55	
4,4′-DDE	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:55	
4,4′-DDT	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:55	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:55	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:55	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:55	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:55	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 10:55	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:55	
Dieldrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:55	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:55	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:55	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:55	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:55	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:55	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:55	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:55	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:55	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:55	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:55	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 10:55	
Toxaphene	ND	50	1	B9G0399	07/16/2019	07/17/19 10:55	
Surrogate: Decachlorobiphenyl	*54.7 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 10:55*	
Surrogate: Tetrachloro-m-xylene	*68.1 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 10:55*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B7-1.0

Lab ID: 1902696-04

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.6**	1.0	1	B9G0404	07/17/2019	07/18/19 12:01	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:05	
4,4´-DDE	**640**	20	10	B9G0399	07/16/2019	07/17/19 17:02	
4,4´-DDT	**65**	2.0	1	B9G0399	07/16/2019	07/17/19 11:05	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:05	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:05	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:05	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:05	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 11:05	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:05	
Dieldrin	**2.9**	2.0	1	B9G0399	07/16/2019	07/17/19 11:05	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:05	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:05	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:05	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:05	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:05	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:05	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:05	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:05	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:05	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:05	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 11:05	
Toxaphene	ND	50	1	B9G0399	07/16/2019	07/17/19 11:05	
Surrogate: Decachlorobiphenyl	*87.4 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 17:02*	
Surrogate: Decachlorobiphenyl	*68.2 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 11:05*	
Surrogate: Tetrachloro-m-xylene	*72.2 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 11:05*	
Surrogate: Tetrachloro-m-xylene	*82.3 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 17:02*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B7-2.5
Lab ID: 1902696-05

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.7**	1.0	1	B9G0404	07/17/2019	07/18/19 12:02	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:16	
4,4´-DDE	**570**	20	10	B9G0399	07/16/2019	07/17/19 17:12	
4,4´-DDT	**270**	20	10	B9G0399	07/16/2019	07/17/19 17:12	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:16	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:16	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:16	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:16	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 11:16	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:16	
Dieldrin [2C]	**12**	2.0	1	B9G0399	07/16/2019	07/17/19 11:16	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:16	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:16	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:16	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:16	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:16	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:16	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:16	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:16	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:16	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:16	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 11:16	
Toxaphene	**680**	500	10	B9G0399	07/16/2019	07/17/19 17:12	
Surrogate: Decachlorobiphenyl	*82.7 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 17:12*	
Surrogate: Decachlorobiphenyl	*67.1 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 11:16*	
Surrogate: Tetrachloro-m-xylene	*71.0 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 17:12*	
Surrogate: Tetrachloro-m-xylene	*68.0 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 11:16*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B7-5.0

Lab ID: 1902696-06

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:26	
4,4′-DDE	**6.2**	2.0	1	B9G0399	07/16/2019	07/17/19 11:26	
4,4′-DDT	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:26	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:26	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:26	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:26	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:26	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 11:26	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:26	
Dieldrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:26	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:26	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:26	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:26	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:26	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:26	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:26	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:26	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:26	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:26	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:26	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 11:26	
Toxaphene	ND	50	1	B9G0399	07/16/2019	07/17/19 11:26	
Surrogate: Decachlorobiphenyl	*67.9 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 11:26*	
Surrogate: Tetrachloro-m-xylene	*75.6 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 11:26*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B12-1.0

Lab ID: 1902696-07

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.6**	1.0	1	B9G0404	07/17/2019	07/18/19 12:03	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**2.6**	2.0	1	B9G0399	07/16/2019	07/17/19 10:44	
4,4´-DDE	**830**	40	20	B9G0399	07/16/2019	07/17/19 10:23	
4,4´-DDT	**47**	2.0	1	B9G0399	07/16/2019	07/17/19 10:44	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:44	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:44	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:44	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:44	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 10:44	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:44	
Dieldrin [2C]	**4.5**	2.0	1	B9G0399	07/16/2019	07/17/19 10:44	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:44	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:44	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:44	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:44	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:44	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 10:44	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:44	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:44	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:44	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 10:44	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 10:44	
Toxaphene	ND	50	1	B9G0399	07/16/2019	07/17/19 10:44	
Surrogate: Decachlorobiphenyl	*101 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 10:23*	S10
Surrogate: Decachlorobiphenyl	*78.9 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 10:44*	
Surrogate: Tetrachloro-m-xylene	*81.6 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 10:44*	
Surrogate: Tetrachloro-m-xylene	*90.6 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 10:23*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B12-1.0D
Lab ID: 1902696-08

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.9**	1.0	1	B9G0404	07/17/2019	07/18/19 12:04	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**2.4**	2.0	1	B9G0399	07/16/2019	07/17/19 11:37	
4,4´-DDE	**240**	40	20	B9G0399	07/16/2019	07/17/19 17:23	
4,4´-DDT	**17**	2.0	1	B9G0399	07/16/2019	07/17/19 11:37	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:37	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:37	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:37	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:37	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 11:37	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:37	
Dieldrin [2C]	**2.4**	2.0	1	B9G0399	07/16/2019	07/17/19 11:37	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:37	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:37	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:37	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:37	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:37	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:37	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:37	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:37	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:37	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:37	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 11:37	
Toxaphene	ND	50	1	B9G0399	07/16/2019	07/17/19 11:37	
Surrogate: Decachlorobiphenyl	*102 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 17:23*	S10
Surrogate: Decachlorobiphenyl	*76.8 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 11:37*	
Surrogate: Tetrachloro-m-xylene	*74.9 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 11:37*	
Surrogate: Tetrachloro-m-xylene	*91.5 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 17:23*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B12-2.5

Lab ID: 1902696-09

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.7**	1.0	1	B9G0404	07/17/2019	07/18/19 12:06	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:47	
4,4´-DDE	**31**	2.0	1	B9G0399	07/16/2019	07/17/19 11:47	
4,4´-DDT	**6.6**	2.0	1	B9G0399	07/16/2019	07/17/19 11:47	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:47	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:47	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:47	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:47	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 11:47	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:47	
Dieldrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:47	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:47	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:47	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:47	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:47	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:47	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:47	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:47	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:47	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:47	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:47	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 11:47	
Toxaphene	ND	50	1	B9G0399	07/16/2019	07/17/19 11:47	
Surrogate: Decachlorobiphenyl	*73.8 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 11:47*	
Surrogate: Tetrachloro-m-xylene	*75.1 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 11:47*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B12-5.0

Lab ID: 1902696-10

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:58	
4,4′-DDE	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:58	
4,4′-DDT	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:58	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:58	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:58	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:58	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:58	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 11:58	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:58	
Dieldrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:58	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:58	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:58	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:58	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:58	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:58	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 11:58	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:58	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:58	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:58	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 11:58	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 11:58	
Toxaphene	ND	50	1	B9G0399	07/16/2019	07/17/19 11:58	
Surrogate: Decachlorobiphenyl	*54.4 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 11:58*	
Surrogate: Tetrachloro-m-xylene	*67.3 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 11:58*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B14-1.0

Lab ID: 1902696-11

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	1	B9G0404	07/17/2019	07/18/19 12:07	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:19	
4,4´-DDE	**42**	2.0	1	B9G0399	07/16/2019	07/17/19 12:19	
4,4´-DDT	**3.1**	2.0	1	B9G0399	07/16/2019	07/17/19 12:19	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:19	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:19	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:19	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:19	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 12:19	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:19	
Dieldrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:19	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:19	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:19	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:19	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:19	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:19	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:19	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:19	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:19	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:19	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:19	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 12:19	
Toxaphene	ND	50	1	B9G0399	07/16/2019	07/17/19 12:19	
Surrogate: Decachlorobiphenyl	*71.4 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 12:19*	
Surrogate: Tetrachloro-m-xylene	*89.1 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 12:19*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.0(
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B14-1.0
Lab ID: 1902696-11

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
1,1,1-Trichloroethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
1,1,2,2-Tetrachloroethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
1,1,2-Trichloroethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
1,1-Dichloroethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
1,1-Dichloroethene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
1,1-Dichloropropene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
1,2,3-Trichloropropane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
1,2,3-Trichlorobenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
1,2,4-Trichlorobenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
1,2,4-Trimethylbenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
1,2-Dibromo-3-chloropropane	ND	9.7	1	B9G0400	07/17/2019	07/17/19 13:41	
1,2-Dibromoethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
1,2-Dichlorobenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
1,2-Dichloroethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
1,2-Dichloropropane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
1,3,5-Trimethylbenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
1,3-Dichlorobenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
1,3-Dichloropropane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
1,4-Dichlorobenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
2,2-Dichloropropane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
2-Chlorotoluene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
4-Chlorotoluene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
4-Isopropyltoluene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Benzene	**20**	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Bromobenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Bromochloromethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Bromodichloromethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Bromoform	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Bromomethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Carbon disulfide	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Carbon tetrachloride	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Chlorobenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Chloroethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Chloroform	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Chloromethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
cis-1,2-Dichloroethene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B14-1.0

Lab ID: 1902696-11

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Di-isopropyl ether	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Dibromochloromethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Dibromomethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Dichlorodifluoromethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Ethyl Acetate	ND	48	1	B9G0400	07/17/2019	07/17/19 13:41	
Ethyl Ether	ND	48	1	B9G0400	07/17/2019	07/17/19 13:41	
Ethyl tert-butyl ether	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Ethylbenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Freon-113	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Hexachlorobutadiene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Isopropylbenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
m,p-Xylene	ND	9.7	1	B9G0400	07/17/2019	07/17/19 13:41	
Methylene chloride	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
MTBE	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
n-Butylbenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
n-Propylbenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Naphthalene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
o-Xylene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
sec-Butylbenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Styrene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
tert-Amyl methyl ether	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
tert-Butanol	ND	97	1	B9G0400	07/17/2019	07/17/19 13:41	
tert-Butylbenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Tetrachloroethene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Toluene	**11**	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
trans-1,2-Dichloroethene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
trans-1,3-Dichloropropene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Trichloroethene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Trichlorofluoromethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Vinyl acetate	ND	48	1	B9G0400	07/17/2019	07/17/19 13:41	
Vinyl chloride	ND	4.8	1	B9G0400	07/17/2019	07/17/19 13:41	
Surrogate: 1,2-Dichloroethane-d4	*109 %*	*60 - 145*		B9G0400	07/17/2019	*07/17/19 13:41*	
Surrogate: 4-Bromofluorobenzene	*98.3 %*	*68 - 121*		B9G0400	07/17/2019	*07/17/19 13:41*	
Surrogate: Dibromofluoromethane	*102 %*	*65 - 137*		B9G0400	07/17/2019	*07/17/19 13:41*	
Surrogate: Toluene-d8	*96.3 %*	*82 - 119*		B9G0400	07/17/2019	*07/17/19 13:41*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B14-2.5

Lab ID: 1902696-12

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.8**	1.0	1	B9G0404	07/17/2019	07/18/19 12:08	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:29	
4,4′-DDE	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:29	
4,4′-DDT	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:29	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:29	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:29	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:29	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:29	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 12:29	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:29	
Dieldrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:29	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:29	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:29	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:29	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:29	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:29	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:29	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:29	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:29	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:29	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:29	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 12:29	
Toxaphene	ND	50	1	B9G0399	07/16/2019	07/17/19 12:29	
Surrogate: Decachlorobiphenyl	*67.1 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 12:29*	
Surrogate: Tetrachloro-m-xylene	*82.5 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 12:29*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B14-2.5

Lab ID: 1902696-12

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
1,1,1-Trichloroethane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
1,1,2,2-Tetrachloroethane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
1,1,2-Trichloroethane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
1,1-Dichloroethane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
1,1-Dichloroethene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
1,1-Dichloropropene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
1,2,3-Trichloropropane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
1,2,3-Trichlorobenzene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
1,2,4-Trichlorobenzene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
1,2,4-Trimethylbenzene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
1,2-Dibromo-3-chloropropane	ND	11	1	B9G0443	07/18/2019	07/18/19 16:06	
1,2-Dibromoethane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
1,2-Dichlorobenzene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
1,2-Dichloroethane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
1,2-Dichloropropane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
1,3,5-Trimethylbenzene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
1,3-Dichlorobenzene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
1,3-Dichloropropane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
1,4-Dichlorobenzene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
2,2-Dichloropropane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
2-Chlorotoluene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
4-Chlorotoluene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
4-Isopropyltoluene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Benzene	**65**	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Bromobenzene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Bromochloromethane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Bromodichloromethane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Bromoform	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Bromomethane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Carbon disulfide	**6.1**	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Carbon tetrachloride	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Chlorobenzene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Chloroethane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Chloroform	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Chloromethane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
cis-1,2-Dichloroethene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B14-2.5

Lab ID: 1902696-12

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Di-isopropyl ether	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Dibromochloromethane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Dibromomethane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Dichlorodifluoromethane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Ethyl Acetate	ND	57	1	B9G0443	07/18/2019	07/18/19 16:06	
Ethyl Ether	ND	57	1	B9G0443	07/18/2019	07/18/19 16:06	
Ethyl tert-butyl ether	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Ethylbenzene	**6.4**	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Freon-113	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Hexachlorobutadiene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Isopropylbenzene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
m,p-Xylene	ND	11	1	B9G0443	07/18/2019	07/18/19 16:06	
Methylene chloride	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
MTBE	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
n-Butylbenzene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
n-Propylbenzene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Naphthalene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
o-Xylene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
sec-Butylbenzene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Styrene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
tert-Amyl methyl ether	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
tert-Butanol	ND	110	1	B9G0443	07/18/2019	07/18/19 16:06	
tert-Butylbenzene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Tetrachloroethene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Toluene	**47**	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
trans-1,2-Dichloroethene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
trans-1,3-Dichloropropene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Trichloroethene	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Trichlorofluoromethane	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Vinyl acetate	ND	57	1	B9G0443	07/18/2019	07/18/19 16:06	
Vinyl chloride	ND	5.7	1	B9G0443	07/18/2019	07/18/19 16:06	
Surrogate: 1,2-Dichloroethane-d4	*109 %*	*60 - 145*		B9G0443	07/18/2019	*07/18/19 16:06*	
Surrogate: 4-Bromofluorobenzene	*95.8 %*	*68 - 121*		B9G0443	07/18/2019	*07/18/19 16:06*	
Surrogate: Dibromofluoromethane	*105 %*	*65 - 137*		B9G0443	07/18/2019	*07/18/19 16:06*	
Surrogate: Toluene-d8	*97.0 %*	*82 - 119*		B9G0443	07/18/2019	*07/18/19 16:06*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B14-2.5D
Lab ID: 1902696-13

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.3**	1.0	1	B9G0404	07/17/2019	07/18/19 12:09	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:40	
4,4′-DDE	**6.7**	2.0	1	B9G0399	07/16/2019	07/17/19 12:40	
4,4′-DDT	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:40	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:40	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:40	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:40	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:40	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 12:40	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:40	
Dieldrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:40	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:40	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:40	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:40	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:40	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:40	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:40	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:40	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:40	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:40	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:40	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 12:40	
Toxaphene	ND	50	1	B9G0399	07/16/2019	07/17/19 12:40	
Surrogate: Decachlorobiphenyl	*76.7 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 12:40*	
Surrogate: Tetrachloro-m-xylene	*78.5 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 12:40*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B14-2.5D

Lab ID: 1902696-13

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
1,1,1-Trichloroethane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
1,1,2,2-Tetrachloroethane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
1,1,2-Trichloroethane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
1,1-Dichloroethane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
1,1-Dichloroethene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
1,1-Dichloropropene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
1,2,3-Trichloropropane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
1,2,3-Trichlorobenzene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
1,2,4-Trichlorobenzene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
1,2,4-Trimethylbenzene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
1,2-Dibromo-3-chloropropane	ND	10	1	B9G0400	07/17/2019	07/17/19 14:20	
1,2-Dibromoethane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
1,2-Dichlorobenzene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
1,2-Dichloroethane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
1,2-Dichloropropane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
1,3,5-Trimethylbenzene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
1,3-Dichlorobenzene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
1,3-Dichloropropane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
1,4-Dichlorobenzene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
2,2-Dichloropropane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
2-Chlorotoluene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
4-Chlorotoluene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
4-Isopropyltoluene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Benzene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Bromobenzene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Bromochloromethane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Bromodichloromethane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Bromoform	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Bromomethane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Carbon disulfide	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Carbon tetrachloride	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Chlorobenzene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Chloroethane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Chloroform	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Chloromethane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
cis-1,2-Dichloroethene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B14-2.5D

Lab ID: 1902696-13

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Di-isopropyl ether	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Dibromochloromethane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Dibromomethane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Dichlorodifluoromethane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Ethyl Acetate	ND	52	1	B9G0400	07/17/2019	07/17/19 14:20	
Ethyl Ether	ND	52	1	B9G0400	07/17/2019	07/17/19 14:20	
Ethyl tert-butyl ether	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Ethylbenzene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Freon-113	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Hexachlorobutadiene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Isopropylbenzene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
m,p-Xylene	ND	10	1	B9G0400	07/17/2019	07/17/19 14:20	
Methylene chloride	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
MTBE	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
n-Butylbenzene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
n-Propylbenzene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Naphthalene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
o-Xylene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
sec-Butylbenzene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Styrene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
tert-Amyl methyl ether	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
tert-Butanol	ND	100	1	B9G0400	07/17/2019	07/17/19 14:20	
tert-Butylbenzene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Tetrachloroethene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Toluene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
trans-1,2-Dichloroethene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
trans-1,3-Dichloropropene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Trichloroethene	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Trichlorofluoromethane	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Vinyl acetate	ND	52	1	B9G0400	07/17/2019	07/17/19 14:20	
Vinyl chloride	ND	5.2	1	B9G0400	07/17/2019	07/17/19 14:20	
Surrogate: 1,2-Dichloroethane-d4	*121 %*	*60 - 145*		B9G0400	07/17/2019	*07/17/19 14:20*	
Surrogate: 4-Bromofluorobenzene	*98.1 %*	*68 - 121*		B9G0400	07/17/2019	*07/17/19 14:20*	
Surrogate: Dibromofluoromethane	*109 %*	*65 - 137*		B9G0400	07/17/2019	*07/17/19 14:20*	
Surrogate: Toluene-d8	*98.7 %*	*82 - 119*		B9G0400	07/17/2019	*07/17/19 14:20*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B14-5.0

Lab ID: 1902696-14

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:50	
4,4′-DDE	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:50	
4,4′-DDT	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:50	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:50	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:50	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:50	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:50	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 12:50	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:50	
Dieldrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:50	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:50	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:50	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:50	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:50	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:50	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 12:50	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:50	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:50	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:50	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 12:50	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 12:50	
Toxaphene	ND	50	1	B9G0399	07/16/2019	07/17/19 12:50	
Surrogate: Decachlorobiphenyl	*66.5 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 12:50*	
Surrogate: Tetrachloro-m-xylene	*80.8 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 12:50*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B14-5.0

Lab ID: 1902696-14

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
1,1,1-Trichloroethane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
1,1,2,2-Tetrachloroethane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
1,1,2-Trichloroethane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
1,1-Dichloroethane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
1,1-Dichloroethene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
1,1-Dichloropropene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
1,2,3-Trichloropropane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
1,2,3-Trichlorobenzene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
1,2,4-Trichlorobenzene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
1,2,4-Trimethylbenzene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
1,2-Dibromo-3-chloropropane	ND	10	1	B9G0400	07/17/2019	07/17/19 14:39	
1,2-Dibromoethane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
1,2-Dichlorobenzene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
1,2-Dichloroethane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
1,2-Dichloropropane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
1,3,5-Trimethylbenzene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
1,3-Dichlorobenzene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
1,3-Dichloropropane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
1,4-Dichlorobenzene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
2,2-Dichloropropane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
2-Chlorotoluene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
4-Chlorotoluene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
4-Isopropyltoluene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Benzene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Bromobenzene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Bromochloromethane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Bromodichloromethane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Bromoform	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Bromomethane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Carbon disulfide	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Carbon tetrachloride	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Chlorobenzene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Chloroethane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Chloroform	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Chloromethane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
cis-1,2-Dichloroethene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B14-5.0

Lab ID: 1902696-14

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Di-isopropyl ether	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Dibromochloromethane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Dibromomethane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Dichlorodifluoromethane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Ethyl Acetate	ND	51	1	B9G0400	07/17/2019	07/17/19 14:39	
Ethyl Ether	ND	51	1	B9G0400	07/17/2019	07/17/19 14:39	
Ethyl tert-butyl ether	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Ethylbenzene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Freon-113	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Hexachlorobutadiene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Isopropylbenzene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
m,p-Xylene	ND	10	1	B9G0400	07/17/2019	07/17/19 14:39	
Methylene chloride	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
MTBE	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
n-Butylbenzene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
n-Propylbenzene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Naphthalene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
o-Xylene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
sec-Butylbenzene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Styrene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
tert-Amyl methyl ether	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
tert-Butanol	ND	100	1	B9G0400	07/17/2019	07/17/19 14:39	
tert-Butylbenzene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Tetrachloroethene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Toluene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
trans-1,2-Dichloroethene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
trans-1,3-Dichloropropene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Trichloroethene	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Trichlorofluoromethane	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Vinyl acetate	ND	51	1	B9G0400	07/17/2019	07/17/19 14:39	
Vinyl chloride	ND	5.1	1	B9G0400	07/17/2019	07/17/19 14:39	
Surrogate: 1,2-Dichloroethane-d4	*112 %*	*60 - 145*		B9G0400	07/17/2019	*07/17/19 14:39*	
Surrogate: 4-Bromofluorobenzene	*94.9 %*	*68 - 121*		B9G0400	07/17/2019	*07/17/19 14:39*	
Surrogate: Dibromofluoromethane	*103 %*	*65 - 137*		B9G0400	07/17/2019	*07/17/19 14:39*	
Surrogate: Toluene-d8	*95.0 %*	*82 - 119*		B9G0400	07/17/2019	*07/17/19 14:39*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B14-10.0

Lab ID: 1902696-15

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
1,1,1-Trichloroethane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
1,1,2,2-Tetrachloroethane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
1,1,2-Trichloroethane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
1,1-Dichloroethane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
1,1-Dichloroethene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
1,1-Dichloropropene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
1,2,3-Trichloropropane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
1,2,3-Trichlorobenzene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
1,2,4-Trichlorobenzene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
1,2,4-Trimethylbenzene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
1,2-Dibromo-3-chloropropane	ND	7.5	1	B9G0400	07/17/2019	07/17/19 14:58	
1,2-Dibromoethane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
1,2-Dichlorobenzene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
1,2-Dichloroethane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
1,2-Dichloropropane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
1,3,5-Trimethylbenzene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
1,3-Dichlorobenzene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
1,3-Dichloropropane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
1,4-Dichlorobenzene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
2,2-Dichloropropane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
2-Chlorotoluene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
4-Chlorotoluene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
4-Isopropyltoluene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Benzene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Bromobenzene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Bromochloromethane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Bromodichloromethane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Bromoform	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Bromomethane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Carbon disulfide	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Carbon tetrachloride	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Chlorobenzene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Chloroethane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Chloroform	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Chloromethane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
cis-1,2-Dichloroethene	**52**	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B14-10.0

Lab ID: 1902696-15

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Di-isopropyl ether	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Dibromochloromethane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Dibromomethane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Dichlorodifluoromethane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Ethyl Acetate	ND	37	1	B9G0400	07/17/2019	07/17/19 14:58	
Ethyl Ether	ND	37	1	B9G0400	07/17/2019	07/17/19 14:58	
Ethyl tert-butyl ether	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Ethylbenzene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Freon-113	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Hexachlorobutadiene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Isopropylbenzene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
m,p-Xylene	ND	7.5	1	B9G0400	07/17/2019	07/17/19 14:58	
Methylene chloride	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
MTBE	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
n-Butylbenzene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
n-Propylbenzene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Naphthalene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
o-Xylene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
sec-Butylbenzene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Styrene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
tert-Amyl methyl ether	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
tert-Butanol	ND	75	1	B9G0400	07/17/2019	07/17/19 14:58	
tert-Butylbenzene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Tetrachloroethene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Toluene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
trans-1,2-Dichloroethene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
trans-1,3-Dichloropropene	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Trichloroethene	**7.1**	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Trichlorofluoromethane	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Vinyl acetate	ND	37	1	B9G0400	07/17/2019	07/17/19 14:58	
Vinyl chloride	ND	3.7	1	B9G0400	07/17/2019	07/17/19 14:58	
Surrogate: 1,2-Dichloroethane-d4	*113 %*	*60 - 145*		B9G0400	07/17/2019	*07/17/19 14:58*	
Surrogate: 4-Bromofluorobenzene	*101 %*	*68 - 121*		B9G0400	07/17/2019	*07/17/19 14:58*	
Surrogate: Dibromofluoromethane	*105 %*	*65 - 137*		B9G0400	07/17/2019	*07/17/19 14:58*	
Surrogate: Toluene-d8	*98.0 %*	*82 - 119*		B9G0400	07/17/2019	*07/17/19 14:58*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B15-1.0

Lab ID: 1902696-16

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	1	B9G0404	07/17/2019	07/18/19 12:10	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:01	
4,4´-DDE	**20**	2.0	1	B9G0399	07/16/2019	07/17/19 13:01	
4,4´-DDT	**5.0**	2.0	1	B9G0399	07/16/2019	07/17/19 13:01	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:01	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:01	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:01	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:01	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 13:01	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:01	
Dieldrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:01	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:01	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:01	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:01	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:01	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:01	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:01	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:01	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:01	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:01	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:01	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 13:01	
Toxaphene	ND	50	1	B9G0399	07/16/2019	07/17/19 13:01	
Surrogate: Decachlorobiphenyl	*108 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 13:01*	S10
Surrogate: Tetrachloro-m-xylene	*71.8 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 13:01*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B15-2.5

Lab ID: 1902696-17

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.3**	1.0	1	B9G0404	07/17/2019	07/18/19 12:12	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:11	
4,4´-DDE	**6.4**	2.0	1	B9G0399	07/16/2019	07/17/19 13:11	
4,4´-DDT	**2.7**	2.0	1	B9G0399	07/16/2019	07/17/19 13:11	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:11	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:11	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:11	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:11	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 13:11	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:11	
Dieldrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:11	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:11	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:11	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:11	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:11	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:11	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:11	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:11	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:11	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:11	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:11	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 13:11	
Toxaphene	ND	50	1	B9G0399	07/16/2019	07/17/19 13:11	
Surrogate: Decachlorobiphenyl	*83.9 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 13:11*	
Surrogate: Tetrachloro-m-xylene	*65.7 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 13:11*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B15-5.0

Lab ID: 1902696-18

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:22	
4,4′-DDE	**3.1**	2.0	1	B9G0399	07/16/2019	07/17/19 13:22	
4,4′-DDT	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:22	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:22	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:22	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:22	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:22	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 13:22	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:22	
Dieldrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:22	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:22	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:22	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:22	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:22	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:22	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:22	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:22	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:22	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:22	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:22	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 13:22	
Toxaphene	ND	50	1	B9G0399	07/16/2019	07/17/19 13:22	
Surrogate: Decachlorobiphenyl	*59.7 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 13:22*	
Surrogate: Tetrachloro-m-xylene	*77.3 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 13:22*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B16-1.0

Lab ID: 1902696-19

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.2**	1.0	1	B9G0404	07/17/2019	07/18/19 12:15	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:32	
4,4´-DDE	**35**	2.0	1	B9G0399	07/16/2019	07/17/19 13:32	
4,4´-DDT	**4.5**	2.0	1	B9G0399	07/16/2019	07/17/19 13:32	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:32	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:32	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:32	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:32	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 13:32	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:32	
Dieldrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:32	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:32	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:32	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:32	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:32	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:32	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:32	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:32	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:32	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:32	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:32	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 13:32	
Toxaphene	ND	50	1	B9G0399	07/16/2019	07/17/19 13:32	
Surrogate: Decachlorobiphenyl	*68.9 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 13:32*	
Surrogate: Tetrachloro-m-xylene	*79.9 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 13:32*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B16-2.5

Lab ID: 1902696-20

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	1	B9G0404	07/17/2019	07/18/19 12:17	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:42	
4,4′-DDE	**2.4**	2.0	1	B9G0399	07/16/2019	07/17/19 13:42	
4,4′-DDT	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:42	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:42	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:42	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:42	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:42	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 13:42	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:42	
Dieldrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:42	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:42	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:42	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:42	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:42	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:42	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 13:42	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:42	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:42	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:42	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 13:42	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 13:42	
Toxaphene	ND	50	1	B9G0399	07/16/2019	07/17/19 13:42	
Surrogate: Decachlorobiphenyl	*62.5 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 13:42*	
Surrogate: Tetrachloro-m-xylene	*69.6 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 13:42*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B16-5.0

Lab ID: 1902696-21

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0399	07/16/2019	07/17/19 16:40	
4,4′-DDE	ND	2.0	1	B9G0399	07/16/2019	07/17/19 16:40	
4,4′-DDT	ND	2.0	1	B9G0399	07/16/2019	07/17/19 16:40	
Aldrin	ND	1.0	1	B9G0399	07/16/2019	07/17/19 16:40	
alpha-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 16:40	
alpha-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 16:40	
beta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 16:40	
Chlordane	ND	8.5	1	B9G0399	07/16/2019	07/17/19 16:40	
delta-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 16:40	
Dieldrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 16:40	
Endosulfan I	ND	1.0	1	B9G0399	07/16/2019	07/17/19 16:40	
Endosulfan II	ND	2.0	1	B9G0399	07/16/2019	07/17/19 16:40	
Endosulfan sulfate	ND	2.0	1	B9G0399	07/16/2019	07/17/19 16:40	
Endrin	ND	2.0	1	B9G0399	07/16/2019	07/17/19 16:40	
Endrin aldehyde	ND	2.0	1	B9G0399	07/16/2019	07/17/19 16:40	
Endrin ketone	ND	2.0	1	B9G0399	07/16/2019	07/17/19 16:40	
gamma-BHC	ND	1.0	1	B9G0399	07/16/2019	07/17/19 16:40	
gamma-Chlordane	ND	1.0	1	B9G0399	07/16/2019	07/17/19 16:40	
Heptachlor	ND	1.0	1	B9G0399	07/16/2019	07/17/19 16:40	
Heptachlor epoxide	ND	1.0	1	B9G0399	07/16/2019	07/17/19 16:40	
Methoxychlor	ND	5.0	1	B9G0399	07/16/2019	07/17/19 16:40	
Toxaphene	ND	50	1	B9G0399	07/16/2019	07/17/19 16:40	
Surrogate: Decachlorobiphenyl	*52.8 %*	*32 - 91*		B9G0399	07/16/2019	*07/17/19 16:40*	
Surrogate: Tetrachloro-m-xylene	*71.8 %*	*38 - 93*		B9G0399	07/16/2019	*07/17/19 16:40*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B17-1.0
Lab ID: 1902696-22

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.9**	1.0	1	B9G0404	07/17/2019	07/18/19 12:18	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD [2C]	**2.8**	2.0	1	B9G0415	07/16/2019	07/17/19 18:04	
4,4´-DDE	**180**	20	10	B9G0415	07/16/2019	07/18/19 14:58	
4,4´-DDT	**43**	2.0	1	B9G0415	07/16/2019	07/17/19 18:04	
Aldrin	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:04	
alpha-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:04	
alpha-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:04	
beta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:04	
Chlordane	ND	8.5	1	B9G0415	07/16/2019	07/17/19 18:04	
delta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:04	
Dieldrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:04	
Endosulfan I	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:04	
Endosulfan II	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:04	
Endosulfan sulfate	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:04	
Endrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:04	
Endrin aldehyde	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:04	
Endrin ketone	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:04	
gamma-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:04	
gamma-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:04	
Heptachlor	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:04	
Heptachlor epoxide	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:04	
Methoxychlor	ND	5.0	1	B9G0415	07/16/2019	07/17/19 18:04	
Toxaphene	ND	50	1	B9G0415	07/16/2019	07/17/19 18:04	
Surrogate: Decachlorobiphenyl	*113 %*	*32 - 91*		B9G0415	07/16/2019	*07/18/19 14:58*	S10
Surrogate: Decachlorobiphenyl	*68.3 %*	*32 - 91*		B9G0415	07/16/2019	*07/17/19 18:04*	
Surrogate: Tetrachloro-m-xylene	*87.3 %*	*38 - 93*		B9G0415	07/16/2019	*07/18/19 14:58*	
Surrogate: Tetrachloro-m-xylene	*70.0 %*	*38 - 93*		B9G0415	07/16/2019	*07/17/19 18:04*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B17-2.5

Lab ID: 1902696-23

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	1	B9G0404	07/17/2019	07/18/19 12:19	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:15	
4,4′-DDE [2C]	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:15	
4,4′-DDT	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:15	
Aldrin	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:15	
alpha-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:15	
alpha-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:15	
beta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:15	
Chlordane	ND	8.5	1	B9G0415	07/16/2019	07/17/19 18:15	
delta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:15	
Dieldrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:15	
Endosulfan I	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:15	
Endosulfan II	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:15	
Endosulfan sulfate	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:15	
Endrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:15	
Endrin aldehyde	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:15	
Endrin ketone	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:15	
gamma-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:15	
gamma-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:15	
Heptachlor	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:15	
Heptachlor epoxide	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:15	
Methoxychlor	ND	5.0	1	B9G0415	07/16/2019	07/17/19 18:15	
Toxaphene	ND	50	1	B9G0415	07/16/2019	07/17/19 18:15	
Surrogate: Decachlorobiphenyl	*68.6 %*	*32 - 91*		B9G0415	07/16/2019	*07/17/19 18:15*	
Surrogate: Tetrachloro-m-xylene	*73.8 %*	*38 - 93*		B9G0415	07/16/2019	*07/17/19 18:15*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B17-5.0

Lab ID: 1902696-24

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:25	
4,4′-DDE	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:25	
4,4′-DDT	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:25	
Aldrin	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:25	
alpha-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:25	
alpha-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:25	
beta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:25	
Chlordane	ND	8.5	1	B9G0415	07/16/2019	07/17/19 18:25	
delta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:25	
Dieldrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:25	
Endosulfan I	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:25	
Endosulfan II	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:25	
Endosulfan sulfate	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:25	
Endrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:25	
Endrin aldehyde	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:25	
Endrin ketone	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:25	
gamma-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:25	
gamma-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:25	
Heptachlor	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:25	
Heptachlor epoxide	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:25	
Methoxychlor	ND	5.0	1	B9G0415	07/16/2019	07/17/19 18:25	
Toxaphene	ND	50	1	B9G0415	07/16/2019	07/17/19 18:25	
Surrogate: Decachlorobiphenyl	*68.3 %*	*32 - 91*		B9G0415	07/16/2019	*07/17/19 18:25*	
Surrogate: Tetrachloro-m-xylene	*69.2 %*	*38 - 93*		B9G0415	07/16/2019	*07/17/19 18:25*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B18-1.0
Lab ID: 1902696-25

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	1	B9G0404	07/17/2019	07/18/19 12:20	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**3.0**	2.0	1	B9G0415	07/16/2019	07/17/19 18:36	
4,4´-DDE	**120**	20	10	B9G0415	07/16/2019	07/18/19 15:08	
4,4´-DDT	**29**	2.0	1	B9G0415	07/16/2019	07/17/19 18:36	
Aldrin	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:36	
alpha-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:36	
alpha-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:36	
beta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:36	
Chlordane	ND	8.5	1	B9G0415	07/16/2019	07/17/19 18:36	
delta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:36	
Dieldrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:36	
Endosulfan I	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:36	
Endosulfan II	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:36	
Endosulfan sulfate	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:36	
Endrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:36	
Endrin aldehyde	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:36	
Endrin ketone	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:36	
gamma-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:36	
gamma-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:36	
Heptachlor	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:36	
Heptachlor epoxide	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:36	
Methoxychlor	ND	5.0	1	B9G0415	07/16/2019	07/17/19 18:36	
Toxaphene	ND	50	1	B9G0415	07/16/2019	07/17/19 18:36	
Surrogate: Decachlorobiphenyl	*100 %*	*32 - 91*		B9G0415	07/16/2019	*07/18/19 15:08*	S10
Surrogate: Decachlorobiphenyl	*59.9 %*	*32 - 91*		B9G0415	07/16/2019	*07/17/19 18:36*	
Surrogate: Tetrachloro-m-xylene	*82.5 %*	*38 - 93*		B9G0415	07/16/2019	*07/18/19 15:08*	
Surrogate: Tetrachloro-m-xylene	*64.7 %*	*38 - 93*		B9G0415	07/16/2019	*07/17/19 18:36*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B18-2.5

Lab ID: 1902696-26

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.5**	1.0	1	B9G0404	07/17/2019	07/18/19 12:21	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:46	
4,4′-DDE [2C]	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:46	
4,4′-DDT	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:46	
Aldrin	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:46	
alpha-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:46	
alpha-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:46	
beta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:46	
Chlordane	ND	8.5	1	B9G0415	07/16/2019	07/17/19 18:46	
delta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:46	
Dieldrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:46	
Endosulfan I	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:46	
Endosulfan II	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:46	
Endosulfan sulfate	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:46	
Endrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:46	
Endrin aldehyde	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:46	
Endrin ketone	ND	2.0	1	B9G0415	07/16/2019	07/17/19 18:46	
gamma-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:46	
gamma-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:46	
Heptachlor	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:46	
Heptachlor epoxide	ND	1.0	1	B9G0415	07/16/2019	07/17/19 18:46	
Methoxychlor	ND	5.0	1	B9G0415	07/16/2019	07/17/19 18:46	
Toxaphene	ND	50	1	B9G0415	07/16/2019	07/17/19 18:46	
Surrogate: Decachlorobiphenyl	*63.4 %*	*32 - 91*		B9G0415	07/16/2019	*07/17/19 18:46*	
Surrogate: Tetrachloro-m-xylene	*68.4 %*	*38 - 93*		B9G0415	07/16/2019	*07/17/19 18:46*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B18-5.0

Lab ID: 1902696-27

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0415	07/16/2019	07/17/19 19:07	
4,4′-DDE	ND	2.0	1	B9G0415	07/16/2019	07/17/19 19:07	
4,4′-DDT	ND	2.0	1	B9G0415	07/16/2019	07/17/19 19:07	
Aldrin	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:07	
alpha-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:07	
alpha-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:07	
beta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:07	
Chlordane	ND	8.5	1	B9G0415	07/16/2019	07/17/19 19:07	
delta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:07	
Dieldrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 19:07	
Endosulfan I	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:07	
Endosulfan II	ND	2.0	1	B9G0415	07/16/2019	07/17/19 19:07	
Endosulfan sulfate	ND	2.0	1	B9G0415	07/16/2019	07/17/19 19:07	
Endrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 19:07	
Endrin aldehyde	ND	2.0	1	B9G0415	07/16/2019	07/17/19 19:07	
Endrin ketone	ND	2.0	1	B9G0415	07/16/2019	07/17/19 19:07	
gamma-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:07	
gamma-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:07	
Heptachlor	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:07	
Heptachlor epoxide	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:07	
Methoxychlor	ND	5.0	1	B9G0415	07/16/2019	07/17/19 19:07	
Toxaphene	ND	50	1	B9G0415	07/16/2019	07/17/19 19:07	
Surrogate: Decachlorobiphenyl	*77.1 %*	*32 - 91*		B9G0415	07/16/2019	*07/17/19 19:07*	
Surrogate: Tetrachloro-m-xylene	*84.1 %*	*38 - 93*		B9G0415	07/16/2019	*07/17/19 19:07*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B19-1.0

Lab ID: 1902696-28

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.1**	1.0	1	B9G0404	07/17/2019	07/18/19 12:22	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B9G0415	07/16/2019	07/18/19 16:11	
4,4´-DDE	**64**	2.0	1	B9G0415	07/16/2019	07/18/19 16:11	
4,4´-DDT	**9.5**	2.0	1	B9G0415	07/16/2019	07/18/19 16:11	
Aldrin	ND	1.0	1	B9G0415	07/16/2019	07/18/19 16:11	
alpha-BHC	ND	1.0	1	B9G0415	07/16/2019	07/18/19 16:11	
alpha-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/18/19 16:11	
beta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/18/19 16:11	
Chlordane	ND	8.5	1	B9G0415	07/16/2019	07/18/19 16:11	
delta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/18/19 16:11	
Dieldrin	ND	2.0	1	B9G0415	07/16/2019	07/18/19 16:11	
Endosulfan I	ND	1.0	1	B9G0415	07/16/2019	07/18/19 16:11	
Endosulfan II	ND	2.0	1	B9G0415	07/16/2019	07/18/19 16:11	
Endosulfan sulfate	ND	2.0	1	B9G0415	07/16/2019	07/18/19 16:11	
Endrin	ND	2.0	1	B9G0415	07/16/2019	07/18/19 16:11	
Endrin aldehyde	ND	2.0	1	B9G0415	07/16/2019	07/18/19 16:11	
Endrin ketone	ND	2.0	1	B9G0415	07/16/2019	07/18/19 16:11	
gamma-BHC	ND	1.0	1	B9G0415	07/16/2019	07/18/19 16:11	
gamma-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/18/19 16:11	
Heptachlor	ND	1.0	1	B9G0415	07/16/2019	07/18/19 16:11	
Heptachlor epoxide	ND	1.0	1	B9G0415	07/16/2019	07/18/19 16:11	
Methoxychlor	ND	5.0	1	B9G0415	07/16/2019	07/18/19 16:11	
Toxaphene	ND	50	1	B9G0415	07/16/2019	07/18/19 16:11	
Surrogate: Decachlorobiphenyl	*90.7 %*	*32 - 91*		B9G0415	07/16/2019	*07/18/19 16:11*	S10
Surrogate: Tetrachloro-m-xylene	*73.0 %*	*38 - 93*		B9G0415	07/16/2019	*07/18/19 16:11*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B19-2.5

Lab ID: 1902696-29

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**4.8**	1.0	1	B9G0404	07/17/2019	07/18/19 12:24	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0415	07/16/2019	07/17/19 19:28	
4,4′-DDE	**4.4**	2.0	1	B9G0415	07/16/2019	07/17/19 19:28	
4,4′-DDT	ND	2.0	1	B9G0415	07/16/2019	07/17/19 19:28	
Aldrin	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:28	
alpha-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:28	
alpha-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:28	
beta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:28	
Chlordane	ND	8.5	1	B9G0415	07/16/2019	07/17/19 19:28	
delta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:28	
Dieldrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 19:28	
Endosulfan I	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:28	
Endosulfan II	ND	2.0	1	B9G0415	07/16/2019	07/17/19 19:28	
Endosulfan sulfate	ND	2.0	1	B9G0415	07/16/2019	07/17/19 19:28	
Endrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 19:28	
Endrin aldehyde	ND	2.0	1	B9G0415	07/16/2019	07/17/19 19:28	
Endrin ketone	ND	2.0	1	B9G0415	07/16/2019	07/17/19 19:28	
gamma-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:28	
gamma-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:28	
Heptachlor	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:28	
Heptachlor epoxide	ND	1.0	1	B9G0415	07/16/2019	07/17/19 19:28	
Methoxychlor	ND	5.0	1	B9G0415	07/16/2019	07/17/19 19:28	
Toxaphene	ND	50	1	B9G0415	07/16/2019	07/17/19 19:28	
Surrogate: Decachlorobiphenyl	*69.8 %*	*32 - 91*		B9G0415	07/16/2019	*07/17/19 19:28*	
Surrogate: Tetrachloro-m-xylene	*73.8 %*	*38 - 93*		B9G0415	07/16/2019	*07/17/19 19:28*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B19-5.0

Lab ID: 1902696-30

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD		ND	2.0	1	B9G0415	07/16/2019	07/18/19 15:29	
4,4′-DDE		ND	2.0	1	B9G0415	07/16/2019	07/18/19 15:29	
4,4′-DDT		ND	2.0	1	B9G0415	07/16/2019	07/18/19 15:29	
Aldrin		ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:29	
alpha-BHC		ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:29	
alpha-Chlordane		ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:29	
beta-BHC		ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:29	
Chlordane		ND	8.5	1	B9G0415	07/16/2019	07/18/19 15:29	
delta-BHC		ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:29	
Dieldrin		ND	2.0	1	B9G0415	07/16/2019	07/18/19 15:29	
Endosulfan I		ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:29	
Endosulfan II		ND	2.0	1	B9G0415	07/16/2019	07/18/19 15:29	
Endosulfan sulfate		ND	2.0	1	B9G0415	07/16/2019	07/18/19 15:29	
Endrin		ND	2.0	1	B9G0415	07/16/2019	07/18/19 15:29	
Endrin aldehyde		ND	2.0	1	B9G0415	07/16/2019	07/18/19 15:29	
Endrin ketone		ND	2.0	1	B9G0415	07/16/2019	07/18/19 15:29	
gamma-BHC		ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:29	
gamma-Chlordane		ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:29	
Heptachlor		ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:29	
Heptachlor epoxide		ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:29	
Methoxychlor		ND	5.0	1	B9G0415	07/16/2019	07/18/19 15:29	
Toxaphene		ND	50	1	B9G0415	07/16/2019	07/18/19 15:29	
Surrogate: Decachlorobiphenyl	*74.5 %*		*32 - 91*		B9G0415	07/16/2019	*07/18/19 15:29*	
Surrogate: Tetrachloro-m-xylene	*64.5 %*		*38 - 93*		B9G0415	07/16/2019	*07/18/19 15:29*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.0(
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B19-5.0D

Lab ID: 1902696-31

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0415	07/16/2019	07/18/19 15:40	
4,4′-DDE	ND	2.0	1	B9G0415	07/16/2019	07/18/19 15:40	
4,4′-DDT	ND	2.0	1	B9G0415	07/16/2019	07/18/19 15:40	
Aldrin	ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:40	
alpha-BHC	ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:40	
alpha-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:40	
beta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:40	
Chlordane	ND	8.5	1	B9G0415	07/16/2019	07/18/19 15:40	
delta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:40	
Dieldrin	ND	2.0	1	B9G0415	07/16/2019	07/18/19 15:40	
Endosulfan I	ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:40	
Endosulfan II	ND	2.0	1	B9G0415	07/16/2019	07/18/19 15:40	
Endosulfan sulfate	ND	2.0	1	B9G0415	07/16/2019	07/18/19 15:40	
Endrin	ND	2.0	1	B9G0415	07/16/2019	07/18/19 15:40	
Endrin aldehyde	ND	2.0	1	B9G0415	07/16/2019	07/18/19 15:40	
Endrin ketone	ND	2.0	1	B9G0415	07/16/2019	07/18/19 15:40	
gamma-BHC	ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:40	
gamma-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:40	
Heptachlor	ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:40	
Heptachlor epoxide	ND	1.0	1	B9G0415	07/16/2019	07/18/19 15:40	
Methoxychlor	ND	5.0	1	B9G0415	07/16/2019	07/18/19 15:40	
Toxaphene	ND	50	1	B9G0415	07/16/2019	07/18/19 15:40	
Surrogate: Decachlorobiphenyl	*77.1 %*	*32 - 91*		B9G0415	07/16/2019	*07/18/19 15:40*	
Surrogate: Tetrachloro-m-xylene	*76.6 %*	*38 - 93*		B9G0415	07/16/2019	*07/18/19 15:40*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B20-1.0
Lab ID: 1902696-32

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.3**	1.0	1	B9G0405	07/17/2019	07/18/19 12:30	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**3.3**	2.0	1	B9G0415	07/16/2019	07/17/19 20:10	
4,4´-DDE	**110**	20	10	B9G0415	07/16/2019	07/18/19 15:50	
4,4´-DDT	**20**	2.0	1	B9G0415	07/16/2019	07/17/19 20:10	
Aldrin	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:10	
alpha-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:10	
alpha-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:10	
beta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:10	
Chlordane	ND	8.5	1	B9G0415	07/16/2019	07/17/19 20:10	
delta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:10	
Dieldrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:10	
Endosulfan I	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:10	
Endosulfan II	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:10	
Endosulfan sulfate	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:10	
Endrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:10	
Endrin aldehyde	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:10	
Endrin ketone	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:10	
gamma-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:10	
gamma-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:10	
Heptachlor	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:10	
Heptachlor epoxide	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:10	
Methoxychlor	ND	5.0	1	B9G0415	07/16/2019	07/17/19 20:10	
Toxaphene	ND	50	1	B9G0415	07/16/2019	07/17/19 20:10	
Surrogate: Decachlorobiphenyl	*108 %*	*32 - 91*		B9G0415	07/16/2019	*07/18/19 15:50*	S10
Surrogate: Decachlorobiphenyl	*77.5 %*	*32 - 91*		B9G0415	07/16/2019	*07/17/19 20:10*	
Surrogate: Tetrachloro-m-xylene	*87.0 %*	*38 - 93*		B9G0415	07/16/2019	*07/17/19 20:10*	
Surrogate: Tetrachloro-m-xylene	*96.9 %*	*38 - 93*		B9G0415	07/16/2019	*07/18/19 15:50*	S10

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B20-2.5

Lab ID: 1902696-33

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**5.9**	1.0	1	B9G0405	07/17/2019	07/18/19 12:34	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:21	
4,4´-DDE [2C]	**19**	2.0	1	B9G0415	07/16/2019	07/17/19 20:21	
4,4´-DDT	**3.0**	2.0	1	B9G0415	07/16/2019	07/17/19 20:21	
Aldrin	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:21	
alpha-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:21	
alpha-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:21	
beta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:21	
Chlordane	ND	8.5	1	B9G0415	07/16/2019	07/17/19 20:21	
delta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:21	
Dieldrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:21	
Endosulfan I	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:21	
Endosulfan II	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:21	
Endosulfan sulfate	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:21	
Endrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:21	
Endrin aldehyde	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:21	
Endrin ketone	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:21	
gamma-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:21	
gamma-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:21	
Heptachlor	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:21	
Heptachlor epoxide	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:21	
Methoxychlor	ND	5.0	1	B9G0415	07/16/2019	07/17/19 20:21	
Toxaphene	ND	50	1	B9G0415	07/16/2019	07/17/19 20:21	
Surrogate: Decachlorobiphenyl	*71.7 %*	*32 - 91*		B9G0415	07/16/2019	*07/17/19 20:21*	
Surrogate: Tetrachloro-m-xylene	*80.0 %*	*38 - 93*		B9G0415	07/16/2019	*07/17/19 20:21*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B20-5.0

Lab ID: 1902696-34

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:31	
4,4′-DDE [2C]	**2.2**	2.0	1	B9G0415	07/16/2019	07/17/19 20:31	
4,4′-DDT	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:31	
Aldrin	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:31	
alpha-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:31	
alpha-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:31	
beta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:31	
Chlordane	ND	8.5	1	B9G0415	07/16/2019	07/17/19 20:31	
delta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:31	
Dieldrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:31	
Endosulfan I	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:31	
Endosulfan II	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:31	
Endosulfan sulfate	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:31	
Endrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:31	
Endrin aldehyde	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:31	
Endrin ketone	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:31	
gamma-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:31	
gamma-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:31	
Heptachlor	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:31	
Heptachlor epoxide	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:31	
Methoxychlor	ND	5.0	1	B9G0415	07/16/2019	07/17/19 20:31	
Toxaphene	ND	50	1	B9G0415	07/16/2019	07/17/19 20:31	
Surrogate: Decachlorobiphenyl	*65.9 %*	*32 - 91*		B9G0415	07/16/2019	*07/17/19 20:31*	
Surrogate: Tetrachloro-m-xylene	*74.0 %*	*38 - 93*		B9G0415	07/16/2019	*07/17/19 20:31*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B21-1.0

Lab ID: 1902696-35

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.0**	1.0	1	B9G0405	07/17/2019	07/18/19 12:35	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**2.5**	2.0	1	B9G0415	07/16/2019	07/17/19 20:42	
4,4´-DDE	**100**	20	10	B9G0415	07/16/2019	07/18/19 16:01	
4,4´-DDT	**6.4**	2.0	1	B9G0415	07/16/2019	07/17/19 20:42	
Aldrin	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:42	
alpha-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:42	
alpha-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:42	
beta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:42	
Chlordane	ND	8.5	1	B9G0415	07/16/2019	07/17/19 20:42	
delta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:42	
Dieldrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:42	
Endosulfan I	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:42	
Endosulfan II	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:42	
Endosulfan sulfate	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:42	
Endrin	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:42	
Endrin aldehyde	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:42	
Endrin ketone	ND	2.0	1	B9G0415	07/16/2019	07/17/19 20:42	
gamma-BHC	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:42	
gamma-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:42	
Heptachlor	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:42	
Heptachlor epoxide	ND	1.0	1	B9G0415	07/16/2019	07/17/19 20:42	
Methoxychlor	ND	5.0	1	B9G0415	07/16/2019	07/17/19 20:42	
Toxaphene	ND	50	1	B9G0415	07/16/2019	07/17/19 20:42	
Surrogate: Decachlorobiphenyl	*68.8 %*	*32 - 91*		B9G0415	07/16/2019	*07/18/19 16:01*	
Surrogate: Decachlorobiphenyl	*46.5 %*	*32 - 91*		B9G0415	07/16/2019	*07/17/19 20:42*	
Surrogate: Tetrachloro-m-xylene	*61.6 %*	*38 - 93*		B9G0415	07/16/2019	*07/17/19 20:42*	
Surrogate: Tetrachloro-m-xylene	*69.1 %*	*38 - 93*		B9G0415	07/16/2019	*07/18/19 16:01*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B21-2.5

Lab ID: 1902696-36

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.4**	1.0	1	B9G0405	07/17/2019	07/18/19 12:36	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0415	07/16/2019	07/18/19 14:37	
4,4′-DDE	**2.6**	2.0	1	B9G0415	07/16/2019	07/18/19 14:37	
4,4′-DDT [2C]	ND	2.0	1	B9G0415	07/16/2019	07/18/19 14:37	
Aldrin	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:37	
alpha-BHC	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:37	
alpha-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:37	
beta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:37	
Chlordane	ND	8.5	1	B9G0415	07/16/2019	07/18/19 14:37	
delta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:37	
Dieldrin	ND	2.0	1	B9G0415	07/16/2019	07/18/19 14:37	
Endosulfan I	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:37	
Endosulfan II	ND	2.0	1	B9G0415	07/16/2019	07/18/19 14:37	
Endosulfan sulfate	ND	2.0	1	B9G0415	07/16/2019	07/18/19 14:37	
Endrin	ND	2.0	1	B9G0415	07/16/2019	07/18/19 14:37	
Endrin aldehyde	ND	2.0	1	B9G0415	07/16/2019	07/18/19 14:37	
Endrin ketone	ND	2.0	1	B9G0415	07/16/2019	07/18/19 14:37	
gamma-BHC	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:37	
gamma-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:37	
Heptachlor	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:37	
Heptachlor epoxide	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:37	
Methoxychlor	ND	5.0	1	B9G0415	07/16/2019	07/18/19 14:37	
Toxaphene	ND	50	1	B9G0415	07/16/2019	07/18/19 14:37	
Surrogate: Decachlorobiphenyl	*76.9 %*	*32 - 91*		B9G0415	07/16/2019	*07/18/19 14:37*	
Surrogate: Tetrachloro-m-xylene	*75.8 %*	*38 - 93*		B9G0415	07/16/2019	*07/18/19 14:37*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Client Sample ID B21-5.0

Lab ID: 1902696-37

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0415	07/16/2019	07/18/19 14:47	
4,4′-DDE	ND	2.0	1	B9G0415	07/16/2019	07/18/19 14:47	
4,4′-DDT	ND	2.0	1	B9G0415	07/16/2019	07/18/19 14:47	
Aldrin	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:47	
alpha-BHC	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:47	
alpha-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:47	
beta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:47	
Chlordane	ND	8.5	1	B9G0415	07/16/2019	07/18/19 14:47	
delta-BHC	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:47	
Dieldrin	ND	2.0	1	B9G0415	07/16/2019	07/18/19 14:47	
Endosulfan I	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:47	
Endosulfan II	ND	2.0	1	B9G0415	07/16/2019	07/18/19 14:47	
Endosulfan sulfate	ND	2.0	1	B9G0415	07/16/2019	07/18/19 14:47	
Endrin	ND	2.0	1	B9G0415	07/16/2019	07/18/19 14:47	
Endrin aldehyde	ND	2.0	1	B9G0415	07/16/2019	07/18/19 14:47	
Endrin ketone	ND	2.0	1	B9G0415	07/16/2019	07/18/19 14:47	
gamma-BHC	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:47	
gamma-Chlordane	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:47	
Heptachlor	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:47	
Heptachlor epoxide	ND	1.0	1	B9G0415	07/16/2019	07/18/19 14:47	
Methoxychlor	ND	5.0	1	B9G0415	07/16/2019	07/18/19 14:47	
Toxaphene	ND	50	1	B9G0415	07/16/2019	07/18/19 14:47	
Surrogate: Decachlorobiphenyl	*51.0 %*	*32 - 91*		B9G0415	07/16/2019	*07/18/19 14:47*	
Surrogate: Tetrachloro-m-xylene	*72.3 %*	*38 - 93*		B9G0415	07/16/2019	*07/18/19 14:47*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.0(
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0404 - EPA 3050B_S										
Blank (B9G0404-BLK1)					Prepared: 7/17/2019 Analyzed: 7/18/2019					
Arsenic	ND	1.0	0.12							
LCS (B9G0404-BS1)					Prepared: 7/17/2019 Analyzed: 7/18/2019					
Arsenic	42.6518	1.0	0.12	50.0000		85.3	80 - 120			
Matrix Spike (B9G0404-MS1)			**Source: 1902696-01**		Prepared: 7/17/2019 Analyzed: 7/18/2019					
Arsenic	75.8671	1.0	0.12	125.000	2.98504	58.3	49 - 96			
Matrix Spike Dup (B9G0404-MSD1)			**Source: 1902696-01**		Prepared: 7/17/2019 Analyzed: 7/18/2019					
Arsenic	79.7092	1.0	0.12	125.000	2.98504	61.4	49 - 96	4.94	20	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.0(
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0405 - EPA 3050B_S										
Blank (B9G0405-BLK1)					Prepared: 7/17/2019 Analyzed: 7/18/2019					
Arsenic	ND	1.0	0.12							
LCS (B9G0405-BS1)					Prepared: 7/17/2019 Analyzed: 7/18/2019					
Arsenic	41.3038	1.0	0.12	50.0000		82.6	80 - 120			
Matrix Spike (B9G0405-MS1)			**Source: 1902696-32**		Prepared: 7/17/2019 Analyzed: 7/18/2019					
Arsenic	75.9540	1.0	0.12	125.000	2.32960	58.9	49 - 96			
Matrix Spike Dup (B9G0405-MSD1)			**Source: 1902696-32**		Prepared: 7/17/2019 Analyzed: 7/18/2019					
Arsenic	85.3212	1.0	0.12	125.000	2.32960	66.4	49 - 96	11.6	20	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.0(
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0399 - GCSEMI_PCB/PEST_S										
Blank (B9G0399-BLK1)							Prepared: 7/16/2019 Analyzed: 7/17/2019			
4,4′-DDD	ND	2.0	0.07							
4,4′-DDD [2C]	ND	2.0	0.07							
4,4′-DDE	ND	2.0	0.11							
4,4′-DDE [2C]	ND	2.0	0.11							
4,4′-DDT	ND	2.0	0.10							
4,4′-DDT [2C]	ND	2.0	0.10							
Aldrin	ND	1.0	0.12							
Aldrin [2C]	ND	1.0	0.12							
alpha-BHC	ND	1.0	0.11							
alpha-BHC [2C]	ND	1.0	0.11							
alpha-Chlordane	ND	1.0	0.12							
alpha-Chlordane [2C]	ND	1.0	0.12							
beta-BHC	ND	1.0	0.06							
beta-BHC [2C]	ND	1.0	0.06							
Chlordane	ND	8.5	1.1							
Chlordane [2C]	ND	8.5	1.1							
delta-BHC	ND	1.0	0.12							
delta-BHC [2C]	ND	1.0	0.12							
Dieldrin	ND	2.0	0.26							
Dieldrin [2C]	ND	2.0	0.26							
Endosulfan I	ND	1.0	0.10							
Endosulfan I [2C]	ND	1.0	0.10							
Endosulfan II	ND	2.0	0.15							
Endosulfan II [2C]	ND	2.0	0.15							
Endosulfan sulfate	ND	2.0	0.16							
Endosulfan Sulfate [2C]	ND	2.0	0.16							
Endrin	ND	2.0	0.14							
Endrin [2C]	ND	2.0	0.14							
Endrin aldehyde	ND	2.0	0.31							
Endrin aldehyde [2C]	ND	2.0	0.31							
Endrin ketone	ND	2.0	0.13							
Endrin ketone [2C]	ND	2.0	0.13							
gamma-BHC	ND	1.0	0.10							
gamma-BHC [2C]	ND	1.0	0.10							
gamma-Chlordane	ND	1.0	0.89							
gamma-Chlordane [2C]	ND	1.0	0.89							
Heptachlor	ND	1.0	0.12							
Heptachlor [2C]	ND	1.0	0.12							
Heptachlor epoxide	ND	1.0	0.09							
Heptachlor epoxide [2C]	ND	1.0	0.09							
Methoxychlor	ND	5.0	0.18							

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0399 - GCSEMI_PCB/PEST_S (continued)										
Blank (B9G0399-BLK1) - Continued					Prepared: 7/16/2019 Analyzed: 7/17/2019					
Methoxychlor [2C]	ND	5.0	0.18							
Toxaphene	ND	50	4.7							
Toxaphene [2C]	ND	50	4.7							
Surrogate: Decachlorobiphenyl	*13.74*			*16.6667*		*82.5*	*32 - 91*			
Surrogate: Decachlorobiphenyl [	*11.50*			*16.6667*		*69.0*	*32 - 91*			
Surrogate: Tetrachloro-m-xylene	*13.51*			*16.6667*		*81.0*	*38 - 93*			
Surrogate: Tetrachloro-m-xylene	*12.45*			*16.6667*		*74.7*	*38 - 93*			
LCS (B9G0399-BS1)					Prepared: 7/16/2019 Analyzed: 7/17/2019					
4,4′-DDD	18.1103	2.0	0.07	16.6667		109	66 - 112			
4,4′-DDD [2C]	15.2418	2.0	0.07	16.6667		91.5	66 - 112			
4,4′-DDE	17.5640	2.0	0.11	16.6667		105	62 - 112			
4,4′-DDE [2C]	14.8868	2.0	0.11	16.6667		89.3	62 - 112			
4,4′-DDT	14.8988	2.0	0.10	16.6667		89.4	48 - 90			
4,4′-DDT [2C]	14.6860	2.0	0.10	16.6667		88.1	48 - 90			
Aldrin	16.8260	1.0	0.12	16.6667		101	58 - 104			
Aldrin [2C]	14.3507	1.0	0.12	16.6667		86.1	58 - 104			
alpha-BHC	15.6683	1.0	0.11	16.6667		94.0	57 - 105			
alpha-BHC [2C]	14.0692	1.0	0.11	16.6667		84.4	57 - 105			
alpha-Chlordane	17.2072	1.0	0.12	16.6667		103	62 - 108			
alpha-Chlordane [2C]	15.2418	1.0	0.12	16.6667		91.5	62 - 108			
beta-BHC	16.5860	1.0	0.06	16.6667		99.5	59 - 106			
beta-BHC [2C]	16.1447	1.0	0.06	16.6667		96.9	59 - 106			
delta-BHC	10.9508	1.0	0.12	16.6667		65.7	63 - 115			
delta-BHC [2C]	10.5677	1.0	0.12	16.6667		63.4	63 - 115			
Dieldrin	16.8310	2.0	0.26	16.6667		101	59 - 102			
Dieldrin [2C]	14.2485	2.0	0.26	16.6667		85.5	59 - 102			
Endosulfan I	15.3820	1.0	0.10	16.6667		92.3	61 - 99			
Endosulfan I [2C]	13.9397	1.0	0.10	16.6667		83.6	61 - 99			
Endosulfan II	17.4888	2.0	0.15	16.6667		105	65 - 105			
Endosulfan II [2C]	15.4735	2.0	0.15	16.6667		92.8	65 - 105			
Endosulfan sulfate	16.3498	2.0	0.16	16.6667		98.1	59 - 107			
Endosulfan Sulfate [2C]	15.4818	2.0	0.16	16.6667		92.9	59 - 107			
Endrin	18.6437	2.0	0.14	16.6667		112	65 - 113			
Endrin [2C]	15.8633	2.0	0.14	16.6667		95.2	65 - 113			
Endrin aldehyde	17.4615	2.0	0.31	16.6667		105	61 - 109			
Endrin aldehyde [2C]	12.5103	2.0	0.31	16.6667		75.1	61 - 109			
Endrin ketone	16.1382	2.0	0.13	16.6667		96.8	56 - 97			
Endrin ketone [2C]	14.8235	2.0	0.13	16.6667		88.9	56 - 97			
gamma-BHC	16.2378	1.0	0.10	16.6667		97.4	57 - 101			
gamma-BHC [2C]	15.0920	1.0	0.10	16.6667		90.6	57 - 101			

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0399 - GCSEMI_PCB/PEST_S (continued)										
LCS (B9G0399-BS1) - Continued						Prepared: 7/16/2019 Analyzed: 7/17/2019				
gamma-Chlordane	16.3192	1.0	0.89	16.6667		97.9	56 - 125			
gamma-Chlordane [2C]	15.1278	1.0	0.89	16.6667		90.8	56 - 125			
Heptachlor	16.9302	1.0	0.12	16.6667		102	61 - 105			
Heptachlor [2C]	14.9980	1.0	0.12	16.6667		90.0	61 - 105			
Heptachlor epoxide	15.6000	1.0	0.09	16.6667		93.6	59 - 97			
Heptachlor epoxide [2C]	14.5622	1.0	0.09	16.6667		87.4	59 - 97			
Methoxychlor	18.8898	5.0	0.18	16.6667		113	68 - 118			
Methoxychlor [2C]	16.4500	5.0	0.18	16.6667		98.7	68 - 118			
Surrogate: Decachlorobiphenyl	*14.51*			*16.6667*		*87.1*	*32 - 91*			
Surrogate: Decachlorobiphenyl [	*12.33*			*16.6667*		*74.0*	*32 - 91*			
Surrogate: Tetrachloro-m-xylene	*15.40*			*16.6667*		*92.4*	*38 - 93*			
Surrogate: Tetrachloro-m-xylene	*13.78*			*16.6667*		*82.7*	*38 - 93*			
Matrix Spike (B9G0399-MS1)			**Source: 1902696-07**			Prepared: 7/16/2019 Analyzed: 7/17/2019				
4,4′-DDD	40.8933	40	1.4	16.6667	2.60317	230	33 - 116			M2
4,4′-DDD [2C]	26.8967	40	1.4	16.6667	1.43183	153	33 - 116			M2
4,4′-DDE	797.497	40	2.2	16.6667	827.847	-182	29 - 128			M2
4,4′-DDE [2C]	581.390	40	2.2	16.6667	691.927	-663	29 - 128			M2
4,4′-DDT	90.4733	40	2.0	16.6667	47.3560	259	27 - 109			M2
4,4′-DDT [2C]	81.7200	40	2.0	16.6667	45.9843	214	27 - 109			M2
Aldrin	28.8233	20	2.5	16.6667	ND	173	34 - 110			M2
Aldrin [2C]	26.3233	20	2.5	16.6667	ND	158	34 - 110			M2
alpha-BHC	27.9367	20	2.1	16.6667	ND	168	39 - 107			M2
alpha-BHC [2C]	25.7533	20	2.1	16.6667	ND	155	39 - 107			M2
alpha-Chlordane	30.7533	20	2.4	16.6667	ND	185	37 - 111			M2
alpha-Chlordane [2C]	29.8867	20	2.4	16.6667	ND	179	37 - 111			M2
beta-BHC	34.2167	20	1.2	16.6667	ND	205	33 - 111			M2
beta-BHC [2C]	31.8933	20	1.2	16.6667	ND	191	33 - 111			M2
delta-BHC	22.4667	20	2.5	16.6667	ND	135	25 - 122			M2
delta-BHC [2C]	20.7267	20	2.5	16.6667	ND	124	25 - 122			M2
Dieldrin	30.9033	40	5.3	16.6667	ND	185	28 - 114			M2
Dieldrin [2C]	28.9400	40	5.3	16.6667	ND	174	28 - 114			M2
Endosulfan I	29.8833	20	2.0	16.6667	ND	179	35 - 107			M2
Endosulfan I [2C]	25.0467	20	2.0	16.6667	ND	150	35 - 107			M2
Endosulfan II	40.6400	40	3.1	16.6667	ND	244	13 - 122			M2
Endosulfan II [2C]	33.2400	40	3.1	16.6667	ND	199	13 - 122			M2
Endosulfan sulfate	30.5833	40	3.2	16.6667	ND	183	13 - 120			M2
Endosulfan Sulfate [2C]	31.8167	40	3.2	16.6667	ND	191	13 - 120			M2
Endrin	39.1667	40	2.7	16.6667	ND	235	31 - 121			M2
Endrin [2C]	25.1700	40	2.7	16.6667	ND	151	31 - 121			M2
Endrin aldehyde	41.4200	40	6.2	16.6667	ND	249	18 - 129			M2

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0399 - GCSEMI_PCB/PEST_S (continued)										
Matrix Spike (B9G0399-MS1) - Continued			**Source: 1902696-07**			Prepared: 7/16/2019 Analyzed: 7/17/2019				
Endrin aldehyde [2C]	39.7433	40	6.2	16.6667	ND	238	18 - 129			M2
Endrin ketone	37.5300	40	2.5	16.6667	ND	225	14 - 113			M2
Endrin ketone [2C]	27.6633	40	2.5	16.6667	ND	166	14 - 113			M2
gamma-BHC	28.9767	20	2.1	16.6667	ND	174	34 - 104			M2
gamma-BHC [2C]	27.5367	20	2.1	16.6667	ND	165	34 - 104			M2
gamma-Chlordane	37.6600	20	18	16.6667	ND	226	35 - 121			M2
gamma-Chlordane [2C]	26.8833	20	18	16.6667	ND	161	35 - 121			M2
Heptachlor	31.0767	20	2.3	16.6667	ND	186	35 - 110			M2
Heptachlor [2C]	27.5533	20	2.3	16.6667	ND	165	35 - 110			M2
Heptachlor epoxide	29.3300	20	1.8	16.6667	ND	176	31 - 106			M2
Heptachlor epoxide [2C]	33.0167	20	1.8	16.6667	ND	198	31 - 106			M2
Methoxychlor	49.2033	100	3.6	16.6667	ND	295	21 - 128			M2
Methoxychlor [2C]	24.0967	100	3.6	16.6667	ND	145	21 - 128			M2
Surrogate: Decachlorobiphenyl	*13.11*			*16.6667*		*78.6*	*32 - 91*			
Surrogate: Decachlorobiphenyl [	*10.31*			*16.6667*		*61.8*	*32 - 91*			
Surrogate: Tetrachloro-m-xylene	*14.94*			*16.6667*		*89.6*	*38 - 93*			
Surrogate: Tetrachloro-m-xylene	*13.21*			*16.6667*		*79.3*	*38 - 93*			
Matrix Spike Dup (B9G0399-MSD1)			**Source: 1902696-07**			Prepared: 7/16/2019 Analyzed: 7/17/2019				
4,4′-DDD	39.7167	40	1.4	16.6667	2.60317	223	33 - 116	2.92	20	M2
4,4′-DDD [2C]	29.6400	40	1.4	16.6667	1.43183	169	33 - 116	9.70	20	M2
4,4′-DDE	960.223	40	2.2	16.6667	827.847	794	29 - 128	18.5	20	M2
4,4′-DDE [2C]	611.010	40	2.2	16.6667	691.927	-486	29 - 128	4.97	20	M2
4,4′-DDT	93.4467	40	2.0	16.6667	47.3560	277	27 - 109	3.23	20	M2
4,4′-DDT [2C]	87.6900	40	2.0	16.6667	45.9843	250	27 - 109	7.05	20	M2
Aldrin	31.9100	20	2.5	16.6667	ND	191	34 - 110	10.2	20	M2
Aldrin [2C]	27.2700	20	2.5	16.6667	ND	164	34 - 110	3.53	20	M2
alpha-BHC	29.6833	20	2.1	16.6667	ND	178	39 - 107	6.06	20	M2
alpha-BHC [2C]	26.8000	20	2.1	16.6667	ND	161	39 - 107	3.98	20	M2
alpha-Chlordane	33.4467	20	2.4	16.6667	ND	201	37 - 111	8.39	20	M2
alpha-Chlordane [2C]	29.3200	20	2.4	16.6667	ND	176	37 - 111	1.91	20	M2
beta-BHC	35.4767	20	1.2	16.6667	ND	213	33 - 111	3.62	20	M2
beta-BHC [2C]	34.2133	20	1.2	16.6667	ND	205	33 - 111	7.02	20	M2
delta-BHC	23.1467	20	2.5	16.6667	ND	139	25 - 122	2.98	20	M2
delta-BHC [2C]	21.4233	20	2.5	16.6667	ND	129	25 - 122	3.31	20	M2
Dieldrin	40.2900	40	5.3	16.6667	ND	242	28 - 114	26.4	20	M2, R2
Dieldrin [2C]	32.5767	40	5.3	16.6667	ND	195	28 - 114	11.8	20	M2
Endosulfan I	33.6200	20	2.0	16.6667	ND	202	35 - 107	11.8	20	M2
Endosulfan I [2C]	27.7933	20	2.0	16.6667	ND	167	35 - 107	10.4	20	M2
Endosulfan II	40.5967	40	3.1	16.6667	ND	244	13 - 122	0.107	20	M2
Endosulfan II [2C]	32.7600	40	3.1	16.6667	ND	197	13 - 122	1.45	20	M2

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0399 - GCSEMI_PCB/PEST_S (continued)										
Matrix Spike Dup (B9G0399-MSD1) - Continued			**Source: 1902696-07**		Prepared: 7/16/2019 Analyzed: 7/17/2019					
Endosulfan sulfate	33.3267	40	3.2	16.6667	ND	200	13 - 120	8.59	20	M2
Endosulfan Sulfate [2C]	33.0900	40	3.2	16.6667	ND	199	13 - 120	3.92	20	M2
Endrin	36.6933	40	2.7	16.6667	ND	220	31 - 121	6.52	20	M2
Endrin [2C]	29.4533	40	2.7	16.6667	ND	177	31 - 121	15.7	20	M2
Endrin aldehyde	47.6400	40	6.2	16.6667	ND	286	18 - 129	14.0	20	M2
Endrin aldehyde [2C]	36.5700	40	6.2	16.6667	ND	219	18 - 129	8.32	20	M2
Endrin ketone	34.8100	40	2.5	16.6667	ND	209	14 - 113	7.52	20	M2
Endrin ketone [2C]	31.6267	40	2.5	16.6667	ND	190	14 - 113	13.4	20	M2
gamma-BHC	29.6500	20	2.1	16.6667	ND	178	34 - 104	2.30	20	M2
gamma-BHC [2C]	28.8533	20	2.1	16.6667	ND	173	34 - 104	4.67	20	M2
gamma-Chlordane	38.5800	20	18	16.6667	ND	231	35 - 121	2.41	20	M2
gamma-Chlordane [2C]	27.8967	20	18	16.6667	ND	167	35 - 121	3.70	20	M2
Heptachlor	32.2333	20	2.3	16.6667	ND	193	35 - 110	3.65	20	M2
Heptachlor [2C]	28.6533	20	2.3	16.6667	ND	172	35 - 110	3.91	20	M2
Heptachlor epoxide	30.6333	20	1.8	16.6667	ND	184	31 - 106	4.35	20	M2
Heptachlor epoxide [2C]	35.3900	20	1.8	16.6667	ND	212	31 - 106	6.94	20	M2
Methoxychlor	52.6967	100	3.6	16.6667	ND	316	21 - 128	6.86	20	M2
Methoxychlor [2C]	30.9300	100	3.6	16.6667	ND	186	21 - 128	24.8	20	M2, R2
Surrogate: Decachlorobiphenyl	*15.13*			*16.6667*		*90.8*	*32 - 91*			
Surrogate: Decachlorobiphenyl [	*14.05*			*16.6667*		*84.3*	*32 - 91*			
Surrogate: Tetrachloro-m-xylene	*14.95*			*16.6667*		*89.7*	*38 - 93*			
Surrogate: Tetrachloro-m-xylene	*12.52*			*16.6667*		*75.1*	*38 - 93*			

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0415 - GCSEMI_PCB/PEST_S										
Blank (B9G0415-BLK1)							Prepared: 7/16/2019 Analyzed: 7/17/2019			
4,4′-DDD	ND	2.0	0.07							
4,4′-DDD [2C]	ND	2.0	0.07							
4,4′-DDE	ND	2.0	0.11							
4,4′-DDE [2C]	ND	2.0	0.11							
4,4′-DDT	ND	2.0	0.10							
4,4′-DDT [2C]	ND	2.0	0.10							
Aldrin	ND	1.0	0.12							
Aldrin [2C]	ND	1.0	0.12							
alpha-BHC	ND	1.0	0.11							
alpha-BHC [2C]	ND	1.0	0.11							
alpha-Chlordane	ND	1.0	0.12							
alpha-Chlordane [2C]	ND	1.0	0.12							
beta-BHC	ND	1.0	0.06							
beta-BHC [2C]	ND	1.0	0.06							
Chlordane	ND	8.5	1.1							
Chlordane [2C]	ND	8.5	1.1							
delta-BHC	ND	1.0	0.12							
delta-BHC [2C]	ND	1.0	0.12							
Dieldrin	ND	2.0	0.26							
Dieldrin [2C]	ND	2.0	0.26							
Endosulfan I	ND	1.0	0.10							
Endosulfan I [2C]	ND	1.0	0.10							
Endosulfan II	ND	2.0	0.15							
Endosulfan II [2C]	ND	2.0	0.15							
Endosulfan sulfate	ND	2.0	0.16							
Endosulfan Sulfate [2C]	ND	2.0	0.16							
Endrin	ND	2.0	0.14							
Endrin [2C]	ND	2.0	0.14							
Endrin aldehyde	ND	2.0	0.31							
Endrin aldehyde [2C]	ND	2.0	0.31							
Endrin ketone	ND	2.0	0.13							
Endrin ketone [2C]	ND	2.0	0.13							
gamma-BHC	ND	1.0	0.10							
gamma-BHC [2C]	ND	1.0	0.10							
gamma-Chlordane	ND	1.0	0.89							
gamma-Chlordane [2C]	ND	1.0	0.89							
Heptachlor	ND	1.0	0.12							
Heptachlor [2C]	ND	1.0	0.12							
Heptachlor epoxide	ND	1.0	0.09							
Heptachlor epoxide [2C]	ND	1.0	0.09							
Methoxychlor	ND	5.0	0.18							

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0415 - GCSEMI_PCB/PEST_S (continued)										
Blank (B9G0415-BLK1) - Continued					Prepared: 7/16/2019 Analyzed: 7/17/2019					
Methoxychlor [2C]	ND	5.0	0.18							
Toxaphene	ND	50	4.7							
Toxaphene [2C]	ND	50	4.7							
Surrogate: Decachlorobiphenyl	*12.41*			*16.6667*		*74.4*	*32 - 91*			
Surrogate: Decachlorobiphenyl [	*12.11*			*16.6667*		*72.7*	*32 - 91*			
Surrogate: Tetrachloro-m-xylene	*11.24*			*16.6667*		*67.4*	*38 - 93*			
Surrogate: Tetrachloro-m-xylene	*11.18*			*16.6667*		*67.1*	*38 - 93*			
LCS (B9G0415-BS1)					Prepared: 7/16/2019 Analyzed: 7/17/2019					
4,4′-DDD	17.8427	2.0	0.07	16.6667		107	66 - 112			
4,4′-DDD [2C]	14.7745	2.0	0.07	16.6667		88.6	66 - 112			
4,4′-DDE	16.8220	2.0	0.11	16.6667		101	62 - 112			
4,4′-DDE [2C]	14.5077	2.0	0.11	16.6667		87.0	62 - 112			
4,4′-DDT	14.2445	2.0	0.10	16.6667		85.5	48 - 90			
4,4′-DDT [2C]	14.5508	2.0	0.10	16.6667		87.3	48 - 90			
Aldrin	15.9530	1.0	0.12	16.6667		95.7	58 - 104			
Aldrin [2C]	14.0872	1.0	0.12	16.6667		84.5	58 - 104			
alpha-BHC	15.1177	1.0	0.11	16.6667		90.7	57 - 105			
alpha-BHC [2C]	13.7363	1.0	0.11	16.6667		82.4	57 - 105			
alpha-Chlordane	16.6802	1.0	0.12	16.6667		100	62 - 108			
alpha-Chlordane [2C]	14.9132	1.0	0.12	16.6667		89.5	62 - 108			
beta-BHC	15.5323	1.0	0.06	16.6667		93.2	59 - 106			
beta-BHC [2C]	15.5035	1.0	0.06	16.6667		93.0	59 - 106			
delta-BHC	12.6032	1.0	0.12	16.6667		75.6	63 - 115			
delta-BHC [2C]	11.7585	1.0	0.12	16.6667		70.6	63 - 115			
Dieldrin	16.4490	2.0	0.26	16.6667		98.7	59 - 102			
Dieldrin [2C]	13.7323	2.0	0.26	16.6667		82.4	59 - 102			
Endosulfan I	14.4883	1.0	0.10	16.6667		86.9	61 - 99			
Endosulfan I [2C]	13.6017	1.0	0.10	16.6667		81.6	61 - 99			
Endosulfan II	17.1180	2.0	0.15	16.6667		103	65 - 105			
Endosulfan II [2C]	15.0038	2.0	0.15	16.6667		90.0	65 - 105			
Endosulfan sulfate	15.7610	2.0	0.16	16.6667		94.6	59 - 107			
Endosulfan Sulfate [2C]	15.5637	2.0	0.16	16.6667		93.4	59 - 107			
Endrin	18.0555	2.0	0.14	16.6667		108	65 - 113			
Endrin [2C]	15.2557	2.0	0.14	16.6667		91.5	65 - 113			
Endrin aldehyde	16.6782	2.0	0.31	16.6667		100	61 - 109			
Endrin aldehyde [2C]	10.9702	2.0	0.31	16.6667		65.8	61 - 109			
Endrin ketone	16.1453	2.0	0.13	16.6667		96.9	56 - 97			
Endrin ketone [2C]	14.1612	2.0	0.13	16.6667		85.0	56 - 97			
gamma-BHC	15.3048	1.0	0.10	16.6667		91.8	57 - 101			
gamma-BHC [2C]	14.7333	1.0	0.10	16.6667		88.4	57 - 101			

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0415 - GCSEMI_PCB/PEST_S (continued)										
LCS (B9G0415-BS1) - Continued						Prepared: 7/16/2019 Analyzed: 7/17/2019				
gamma-Chlordane	16.1617	1.0	0.89	16.6667		97.0	56 - 125			
gamma-Chlordane [2C]	14.6913	1.0	0.89	16.6667		88.1	56 - 125			
Heptachlor	16.2980	1.0	0.12	16.6667		97.8	61 - 105			
Heptachlor [2C]	14.6137	1.0	0.12	16.6667		87.7	61 - 105			
Heptachlor epoxide	14.9483	1.0	0.09	16.6667		89.7	59 - 97			
Heptachlor epoxide [2C]	14.1698	1.0	0.09	16.6667		85.0	59 - 97			
Methoxychlor	19.4117	5.0	0.18	16.6667		116	68 - 118			
Methoxychlor [2C]	15.9138	5.0	0.18	16.6667		95.5	68 - 118			
Surrogate: Decachlorobiphenyl	*14.77*			*16.6667*		*88.6*	*32 - 91*			
Surrogate: Decachlorobiphenyl [	*11.90*			*16.6667*		*71.4*	*32 - 91*			
Surrogate: Tetrachloro-m-xylene	*14.56*			*16.6667*		*87.3*	*38 - 93*			
Surrogate: Tetrachloro-m-xylene	*12.69*			*16.6667*		*76.1*	*38 - 93*			
Matrix Spike (B9G0415-MS1)			**Source: 1902696-28**			Prepared: 7/16/2019 Analyzed: 7/17/2019				
4,4′-DDD	17.0768	2.0	0.07	16.6667	ND	102	33 - 116			
4,4′-DDD [2C]	14.1555	2.0	0.07	16.6667	ND	84.9	33 - 116			
4,4′-DDE	66.2505	2.0	0.11	16.6667	64.3512	11.4	29 - 128			M2
4,4′-DDE [2C]	54.5782	2.0	0.11	16.6667	54.3660	1.27	29 - 128			M2
4,4′-DDT	24.0897	2.0	0.10	16.6667	9.54717	87.3	27 - 109			
4,4′-DDT [2C]	21.3227	2.0	0.10	16.6667	9.20117	72.7	27 - 109			
Aldrin	14.1320	1.0	0.12	16.6667	ND	84.8	34 - 110			
Aldrin [2C]	13.3582	1.0	0.12	16.6667	ND	80.1	34 - 110			
alpha-BHC	14.8440	1.0	0.11	16.6667	ND	89.1	39 - 107			
alpha-BHC [2C]	13.5750	1.0	0.11	16.6667	ND	81.4	39 - 107			
alpha-Chlordane	14.3762	1.0	0.12	16.6667	ND	86.3	37 - 111			
alpha-Chlordane [2C]	13.8258	1.0	0.12	16.6667	ND	83.0	37 - 111			
beta-BHC	16.0940	1.0	0.06	16.6667	ND	96.6	33 - 111			
beta-BHC [2C]	15.3670	1.0	0.06	16.6667	ND	92.2	33 - 111			
delta-BHC	10.7435	1.0	0.12	16.6667	ND	64.5	25 - 122			
delta-BHC [2C]	11.1093	1.0	0.12	16.6667	ND	66.7	25 - 122			
Dieldrin	14.9415	2.0	0.26	16.6667	0.594500	86.1	28 - 114			
Dieldrin [2C]	13.4047	2.0	0.26	16.6667	0.584333	76.9	28 - 114			
Endosulfan I	12.4775	1.0	0.10	16.6667	ND	74.9	35 - 107			
Endosulfan I [2C]	12.6925	1.0	0.10	16.6667	ND	76.2	35 - 107			
Endosulfan II	18.8563	2.0	0.15	16.6667	ND	113	13 - 122			
Endosulfan II [2C]	13.5183	2.0	0.15	16.6667	ND	81.1	13 - 122			
Endosulfan sulfate	15.3337	2.0	0.16	16.6667	ND	92.0	13 - 120			
Endosulfan Sulfate [2C]	17.7020	2.0	0.16	16.6667	ND	106	13 - 120			
Endrin	16.2100	2.0	0.14	16.6667	ND	97.3	31 - 121			
Endrin [2C]	14.1030	2.0	0.14	16.6667	ND	84.6	31 - 121			
Endrin aldehyde	17.8148	2.0	0.31	16.6667	ND	107	18 - 129			

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0415 - GCSEMI_PCB/PEST_S (continued)										
Matrix Spike (B9G0415-MS1) - Continued			**Source: 1902696-28**			Prepared: 7/16/2019 Analyzed: 7/17/2019				
Endrin aldehyde [2C]	12.8347	2.0	0.31	16.6667	ND	77.0	18 - 129			
Endrin ketone	15.8425	2.0	0.13	16.6667	ND	95.1	14 - 113			
Endrin ketone [2C]	14.5587	2.0	0.13	16.6667	ND	87.4	14 - 113			
gamma-BHC	14.8613	1.0	0.10	16.6667	ND	89.2	34 - 104			
gamma-BHC [2C]	14.4990	1.0	0.10	16.6667	ND	87.0	34 - 104			
gamma-Chlordane	14.4795	1.0	0.89	16.6667	ND	86.9	35 - 121			
gamma-Chlordane [2C]	13.5095	1.0	0.89	16.6667	ND	81.1	35 - 121			
Heptachlor	14.1852	1.0	0.12	16.6667	ND	85.1	35 - 110			
Heptachlor [2C]	14.0178	1.0	0.12	16.6667	ND	84.1	35 - 110			
Heptachlor epoxide	13.5952	1.0	0.09	16.6667	ND	81.6	31 - 106			
Heptachlor epoxide [2C]	13.1377	1.0	0.09	16.6667	ND	78.8	31 - 106			
Methoxychlor	18.5253	5.0	0.18	16.6667	ND	111	21 - 128			
Methoxychlor [2C]	14.2670	5.0	0.18	16.6667	ND	85.6	21 - 128			
Surrogate: Decachlorobiphenyl	*17.61*			*16.6667*		*106*	*32 - 91*			S10
Surrogate: Decachlorobiphenyl [	*12.32*			*16.6667*		*73.9*	*32 - 91*			
Surrogate: Tetrachloro-m-xylene	*13.76*			*16.6667*		*82.5*	*38 - 93*			
Surrogate: Tetrachloro-m-xylene	*12.62*			*16.6667*		*75.7*	*38 - 93*			
Matrix Spike Dup (B9G0415-MSD1)			**Source: 1902696-28**			Prepared: 7/16/2019 Analyzed: 7/17/2019				
4,4′-DDD	14.8868	2.0	0.07	16.6667	ND	89.3	33 - 116	13.7	20	
4,4′-DDD [2C]	13.3987	2.0	0.07	16.6667	ND	80.4	33 - 116	5.49	20	
4,4′-DDE	71.5818	2.0	0.11	16.6667	64.3512	43.4	29 - 128	7.74	20	
4,4′-DDE [2C]	54.6182	2.0	0.11	16.6667	54.3660	1.51	29 - 128	0.0733	20	M2
4,4′-DDT	23.6905	2.0	0.10	16.6667	9.54717	84.9	27 - 109	1.67	20	
4,4′-DDT [2C]	20.5982	2.0	0.10	16.6667	9.20117	68.4	27 - 109	3.46	20	
Aldrin	15.1663	1.0	0.12	16.6667	ND	91.0	34 - 110	7.06	20	
Aldrin [2C]	13.4998	1.0	0.12	16.6667	ND	81.0	34 - 110	1.05	20	
alpha-BHC	14.8332	1.0	0.11	16.6667	ND	89.0	39 - 107	0.0730	20	
alpha-BHC [2C]	13.7358	1.0	0.11	16.6667	ND	82.4	39 - 107	1.18	20	
alpha-Chlordane	14.6655	1.0	0.12	16.6667	ND	88.0	37 - 111	1.99	20	
alpha-Chlordane [2C]	13.7202	1.0	0.12	16.6667	ND	82.3	37 - 111	0.767	20	
beta-BHC	15.7600	1.0	0.06	16.6667	ND	94.6	33 - 111	2.10	20	
beta-BHC [2C]	15.5328	1.0	0.06	16.6667	ND	93.2	33 - 111	1.07	20	
delta-BHC	11.2612	1.0	0.12	16.6667	ND	67.6	25 - 122	4.71	20	
delta-BHC [2C]	11.2195	1.0	0.12	16.6667	ND	67.3	25 - 122	0.987	20	
Dieldrin	15.1207	2.0	0.26	16.6667	0.594500	87.2	28 - 114	1.19	20	
Dieldrin [2C]	13.3797	2.0	0.26	16.6667	0.584333	76.8	28 - 114	0.187	20	
Endosulfan I	13.7088	1.0	0.10	16.6667	ND	82.3	35 - 107	9.40	20	
Endosulfan I [2C]	12.4677	1.0	0.10	16.6667	ND	74.8	35 - 107	1.79	20	
Endosulfan II	15.4953	2.0	0.15	16.6667	ND	93.0	13 - 122	19.6	20	
Endosulfan II [2C]	13.6302	2.0	0.15	16.6667	ND	81.8	13 - 122	0.824	20	

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0415 - GCSEMI_PCB/PEST_S (continued)										
Matrix Spike Dup (B9G0415-MSD1) - Continued			**Source: 1902696-28**		Prepared: 7/16/2019 Analyzed: 7/17/2019					
Endosulfan sulfate	14.5938	2.0	0.16	16.6667	ND	87.6	13 - 120	4.94	20	
Endosulfan Sulfate [2C]	14.6585	2.0	0.16	16.6667	ND	88.0	13 - 120	18.8	20	
Endrin	16.1462	2.0	0.14	16.6667	ND	96.9	31 - 121	0.395	20	
Endrin [2C]	13.7402	2.0	0.14	16.6667	ND	82.4	31 - 121	2.61	20	
Endrin aldehyde	16.6565	2.0	0.31	16.6667	ND	99.9	18 - 129	6.72	20	
Endrin aldehyde [2C]	13.6150	2.0	0.31	16.6667	ND	81.7	18 - 129	5.90	20	
Endrin ketone	15.9578	2.0	0.13	16.6667	ND	95.7	14 - 113	0.725	20	
Endrin ketone [2C]	13.6682	2.0	0.13	16.6667	ND	82.0	14 - 113	6.31	20	
gamma-BHC	14.7502	1.0	0.10	16.6667	ND	88.5	34 - 104	0.751	20	
gamma-BHC [2C]	14.6138	1.0	0.10	16.6667	ND	87.7	34 - 104	0.789	20	
gamma-Chlordane	14.1395	1.0	0.89	16.6667	ND	84.8	35 - 121	2.38	20	
gamma-Chlordane [2C]	13.5973	1.0	0.89	16.6667	ND	81.6	35 - 121	0.648	20	
Heptachlor	14.9577	1.0	0.12	16.6667	ND	89.7	35 - 110	5.30	20	
Heptachlor [2C]	14.1217	1.0	0.12	16.6667	ND	84.7	35 - 110	0.738	20	
Heptachlor epoxide	13.4773	1.0	0.09	16.6667	ND	80.9	31 - 106	0.871	20	
Heptachlor epoxide [2C]	13.2182	1.0	0.09	16.6667	ND	79.3	31 - 106	0.611	20	
Methoxychlor	20.6858	5.0	0.18	16.6667	ND	124	21 - 128	11.0	20	
Methoxychlor [2C]	14.0860	5.0	0.18	16.6667	ND	84.5	21 - 128	1.28	20	
Surrogate: Decachlorobiphenyl	*13.03*			*16.6667*		*78.2*	*32 - 91*			
Surrogate: Decachlorobiphenyl [	*11.76*			*16.6667*		*70.5*	*32 - 91*			
Surrogate: Tetrachloro-m-xylene	*14.16*			*16.6667*		*85.0*	*38 - 93*			
Surrogate: Tetrachloro-m-xylene	*12.83*			*16.6667*		*77.0*	*38 - 93*			

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Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0400 - MSVOA_S										
Blank (B9G0400-BLK1)					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,1,1,2-Tetrachloroethane	ND	5.0	0.96							
1,1,1-Trichloroethane	ND	5.0	1.1							
1,1,2,2-Tetrachloroethane	ND	5.0	0.62							
1,1,2-Trichloroethane	ND	5.0	1.6							
1,1-Dichloroethane	ND	5.0	0.81							
1,1-Dichloroethene	ND	5.0	2.6							
1,1-Dichloropropene	ND	5.0	2.3							
1,2,3-Trichloropropane	ND	5.0	0.54							
1,2,3-Trichlorobenzene	ND	5.0	1.2							
1,2,4-Trichlorobenzene	ND	5.0	1.1							
1,2,4-Trimethylbenzene	ND	5.0	1.5							
1,2-Dibromo-3-chloropropane	ND	10	1.6							
1,2-Dibromoethane	ND	5.0	3.2							
1,2-Dichlorobenzene	ND	5.0	1.1							
1,2-Dichloroethane	ND	5.0	1.2							
1,2-Dichloropropane	ND	5.0	1.8							
1,3,5-Trimethylbenzene	ND	5.0	1.7							
1,3-Dichlorobenzene	ND	5.0	1.3							
1,3-Dichloropropane	ND	5.0	1.1							
1,4-Dichlorobenzene	ND	5.0	1.2							
2,2-Dichloropropane	ND	5.0	1.2							
2-Chlorotoluene	ND	5.0	1.6							
4-Chlorotoluene	ND	5.0	1.5							
4-Isopropyltoluene	ND	5.0	2.3							
Benzene	ND	5.0	0.64							
Bromobenzene	ND	5.0	1.1							
Bromochloromethane	ND	5.0	0.64							
Bromodichloromethane	ND	5.0	1.2							
Bromoform	ND	5.0	0.80							
Bromomethane	ND	5.0	2.5							
Carbon disulfide	ND	5.0	3.5							
Carbon tetrachloride	ND	5.0	1.2							
Chlorobenzene	ND	5.0	1.0							
Chloroethane	ND	5.0	1.1							
Chloroform	ND	5.0	0.82							
Chloromethane	ND	5.0	1.4							
cis-1,2-Dichloroethene	ND	5.0	0.67							
cis-1,3-Dichloropropene	ND	5.0	1.9							
Di-isopropyl ether	ND	5.0	0.55							
Dibromochloromethane	ND	5.0	1.0							
Dibromomethane	ND	5.0	1.6							

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Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0400 - MSVOA_S (continued)										
Blank (B9G0400-BLK1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
Dichlorodifluoromethane	ND	5.0	2.2							
Ethyl Acetate	ND	50	8.1							
Ethyl Ether	ND	50	6.1							
Ethyl tert-butyl ether	ND	5.0	0.67							
Ethylbenzene	ND	5.0	0.91							
Freon-113	ND	5.0	2.8							
Hexachlorobutadiene	ND	5.0	2.5							
Isopropylbenzene	ND	5.0	1.8							
m,p-Xylene	ND	10	1.5							
Methylene chloride	ND	5.0	2.3							
MTBE	ND	5.0	0.63							
n-Butylbenzene	ND	5.0	2.4							
n-Propylbenzene	ND	5.0	2.2							
Naphthalene	ND	5.0	0.97							
o-Xylene	ND	5.0	0.87							
sec-Butylbenzene	ND	5.0	2.3							
Styrene	ND	5.0	1.5							
tert-Amyl methyl ether	ND	5.0	0.59							
tert-Butanol	ND	100	19							
tert-Butylbenzene	ND	5.0	2.0							
Tetrachloroethene	ND	5.0	1.6							
Toluene	ND	5.0	0.94							
trans-1,2-Dichloroethene	ND	5.0	0.59							
trans-1,3-Dichloropropene	ND	5.0	2.1							
Trichloroethene	ND	5.0	3.1							
Trichlorofluoromethane	ND	5.0	1.4							
Vinyl acetate	ND	50	9.8							
Vinyl chloride	ND	5.0	1.7							
Surrogate: 1,2-Dichloroethane-d4	*46.17*			*50.0000*		*92.3*	*60 - 145*			
Surrogate: 4-Bromofluorobenzene	*48.61*			*50.0000*		*97.2*	*68 - 121*			
Surrogate: Dibromofluoromethan	*47.80*			*50.0000*		*95.6*	*65 - 137*			
Surrogate: Toluene-d8	*48.67*			*50.0000*		*97.3*	*82 - 119*			
LCS (B9G0400-BS1)					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,1,1,2-Tetrachloroethane	48.4200	5.0	0.96	50.0000		96.8	82 - 114			
1,1,1-Trichloroethane	52.5300	5.0	1.1	50.0000		105	70 - 121			
1,1,2,2-Tetrachloroethane	45.7500	5.0	0.62	50.0000		91.5	65 - 116			
1,1,2-Trichloroethane	45.3300	5.0	1.6	50.0000		90.7	73 - 114			
1,1-Dichloroethane	51.4200	5.0	0.81	50.0000		103	69 - 117			
1,1-Dichloroethene	51.9900	5.0	2.6	50.0000		104	57 - 128			
1,1-Dichloropropene	58.4300	5.0	2.3	50.0000		117	76 - 122			

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0400 - MSVOA_S (continued)										
LCS (B9G0400-BS1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,2,3-Trichloropropane	47.4200	5.0	0.54	50.0000		94.8	65 - 116			
1,2,3-Trichlorobenzene	46.4800	5.0	1.2	50.0000		93.0	72 - 130			
1,2,4-Trichlorobenzene	50.4100	5.0	1.1	50.0000		101	74 - 141			
1,2,4-Trimethylbenzene	51.5900	5.0	1.5	50.0000		103	81 - 126			
1,2-Dibromo-3-chloropropane	41.8100	10	1.6	50.0000		83.6	63 - 126			
1,2-Dibromoethane	45.1700	5.0	3.2	50.0000		90.3	75 - 113			
1,2-Dichlorobenzene	46.0800	5.0	1.1	50.0000		92.2	83 - 114			
1,2-Dichloroethane	46.7400	5.0	1.2	50.0000		93.5	73 - 115			
1,2-Dichloropropane	50.3600	5.0	1.8	50.0000		101	75 - 117			
1,3,5-Trimethylbenzene	52.7900	5.0	1.7	50.0000		106	80 - 126			
1,3-Dichlorobenzene	47.6900	5.0	1.3	50.0000		95.4	83 - 113			
1,3-Dichloropropane	48.4300	5.0	1.1	50.0000		96.9	79 - 108			
1,4-Dichlorobenzene	46.9100	5.0	1.2	50.0000		93.8	82 - 114			
2,2-Dichloropropane	54.3600	5.0	1.2	50.0000		109	66 - 135			
2-Chlorotoluene	50.3600	5.0	1.6	50.0000		101	79 - 117			
4-Chlorotoluene	50.7900	5.0	1.5	50.0000		102	77 - 118			
4-Isopropyltoluene	54.6500	5.0	2.3	50.0000		109	81 - 129			
Benzene	103.660	5.0	0.64	100.000		104	78 - 112			
Bromobenzene	45.9600	5.0	1.1	50.0000		91.9	79 - 111			
Bromochloromethane	45.0900	5.0	0.64	50.0000		90.2	69 - 116			
Bromodichloromethane	47.0400	5.0	1.2	50.0000		94.1	79 - 111			
Bromoform	42.8500	5.0	0.80	50.0000		85.7	75 - 119			
Bromomethane	61.5600	5.0	2.5	50.0000		123	31 - 168			
Carbon disulfide	54.0600	5.0	3.5	50.0000		108	54 - 141			
Carbon tetrachloride	55.6700	5.0	1.2	50.0000		111	74 - 125			
Chlorobenzene	50.1700	5.0	1.0	50.0000		100	83 - 112			
Chloroethane	62.4800	5.0	1.1	50.0000		125	53 - 144			
Chloroform	47.9000	5.0	0.82	50.0000		95.8	69 - 118			
Chloromethane	58.1500	5.0	1.4	50.0000		116	46 - 137			
cis-1,2-Dichloroethene	48.3500	5.0	0.67	50.0000		96.7	68 - 118			
cis-1,3-Dichloropropene	56.0700	5.0	1.9	50.0000		112	77 - 121			
Di-isopropyl ether	48.2400	5.0	0.55	50.0000		96.5	60 - 129			
Dibromochloromethane	46.5100	5.0	1.0	50.0000		93.0	80 - 111			
Dibromomethane	46.6000	5.0	1.6	50.0000		93.2	78 - 108			
Dichlorodifluoromethane	67.3300	5.0	2.2	50.0000		135	41 - 146			
Ethyl Acetate	465.350	50	8.1	500.000		93.1	52 - 130			
Ethyl Ether	413.780	50	6.1	500.000		82.8	54 - 138			
Ethyl tert-butyl ether	51.7500	5.0	0.67	50.0000		104	52 - 141			
Ethylbenzene	103.320	5.0	0.91	100.000		103	82 - 121			
Freon-113	56.2200	5.0	2.8	50.0000		112	59 - 139			
Hexachlorobutadiene	52.2800	5.0	2.5	50.0000		105	69 - 143			
Isopropylbenzene	56.2400	5.0	1.8	50.0000		112	78 - 124			

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0400 - MSVOA_S (continued)										
LCS (B9G0400-BS1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
m,p-Xylene	109.040	10	1.5	100.000		109	85 - 118			
Methylene chloride	38.5000	5.0	2.3	50.0000		77.0	44 - 146			
MTBE	45.7900	5.0	0.63	50.0000		91.6	61 - 122			
n-Butylbenzene	55.7800	5.0	2.4	50.0000		112	78 - 135			
n-Propylbenzene	52.9100	5.0	2.2	50.0000		106	78 - 127			
Naphthalene	47.2300	5.0	0.97	50.0000		94.5	68 - 129			
o-Xylene	105.670	5.0	0.87	100.000		106	86 - 118			
sec-Butylbenzene	53.6700	5.0	2.3	50.0000		107	80 - 127			
Styrene	51.7300	5.0	1.5	50.0000		103	85 - 117			
tert-Amyl methyl ether	50.8200	5.0	0.59	50.0000		102	48 - 135			
tert-Butanol	78.0200	100	19	250.000		31.2	0 - 175			
tert-Butylbenzene	53.4600	5.0	2.0	50.0000		107	81 - 122			
Tetrachloroethene	56.0900	5.0	1.6	50.0000		112	77 - 122			
Toluene	102.320	5.0	0.94	100.000		102	79 - 114			
trans-1,2-Dichloroethene	44.3700	5.0	0.59	50.0000		88.7	66 - 125			
trans-1,3-Dichloropropene	47.8700	5.0	2.1	50.0000		95.7	76 - 120			
Trichloroethene	53.2800	5.0	3.1	50.0000		107	79 - 117			
Trichlorofluoromethane	55.2700	5.0	1.4	50.0000		111	55 - 133			
Vinyl acetate	460.980	50	9.8	500.000		92.2	52 - 141			
Vinyl chloride	60.8400	5.0	1.7	50.0000		122	58 - 132			
Surrogate: 1,2-Dichloroethane-d4	*43.96*			*50.0000*		*87.9*	*60 - 145*			
Surrogate: 4-Bromofluorobenzene	*50.88*			*50.0000*		*102*	*68 - 121*			
Surrogate: Dibromofluoromethan	*46.51*			*50.0000*		*93.0*	*65 - 137*			
Surrogate: Toluene-d8	*50.21*			*50.0000*		*100*	*82 - 119*			
LCS Dup (B9G0400-BSD1)					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,1,1,2-Tetrachloroethane	46.2900	5.0	0.96	50.0000		92.6	82 - 114	4.50	20	
1,1,1-Trichloroethane	47.6100	5.0	1.1	50.0000		95.2	70 - 121	9.83	20	
1,1,2,2-Tetrachloroethane	48.7400	5.0	0.62	50.0000		97.5	65 - 116	6.33	20	
1,1,2-Trichloroethane	46.3700	5.0	1.6	50.0000		92.7	73 - 114	2.27	20	
1,1-Dichloroethane	47.1500	5.0	0.81	50.0000		94.3	69 - 117	8.66	20	
1,1-Dichloroethene	48.4300	5.0	2.6	50.0000		96.9	57 - 128	7.09	20	
1,1-Dichloropropene	52.3400	5.0	2.3	50.0000		105	76 - 122	11.0	20	
1,2,3-Trichloropropane	49.7500	5.0	0.54	50.0000		99.5	65 - 116	4.80	20	
1,2,3-Trichlorobenzene	47.5000	5.0	1.2	50.0000		95.0	72 - 130	2.17	20	
1,2,4-Trichlorobenzene	50.2600	5.0	1.1	50.0000		101	74 - 141	0.298	20	
1,2,4-Trimethylbenzene	48.2100	5.0	1.5	50.0000		96.4	81 - 126	6.77	20	
1,2-Dibromo-3-chloropropane	45.3500	10	1.6	50.0000		90.7	63 - 126	8.12	20	
1,2-Dibromoethane	45.5400	5.0	3.2	50.0000		91.1	75 - 113	0.816	20	
1,2-Dichlorobenzene	46.4100	5.0	1.1	50.0000		92.8	83 - 114	0.714	20	
1,2-Dichloroethane	46.1000	5.0	1.2	50.0000		92.2	73 - 115	1.38	20	

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0400 - MSVOA_S (continued)										
LCS Dup (B9G0400-BSD1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,2-Dichloropropane	48.1500	5.0	1.8	50.0000		96.3	75 - 117	4.49	20	
1,3,5-Trimethylbenzene	49.1700	5.0	1.7	50.0000		98.3	80 - 126	7.10	20	
1,3-Dichlorobenzene	45.9600	5.0	1.3	50.0000		91.9	83 - 113	3.69	20	
1,3-Dichloropropane	47.5300	5.0	1.1	50.0000		95.1	79 - 108	1.88	20	
1,4-Dichlorobenzene	45.4600	5.0	1.2	50.0000		90.9	82 - 114	3.14	20	
2,2-Dichloropropane	49.4200	5.0	1.2	50.0000		98.8	66 - 135	9.52	20	
2-Chlorotoluene	47.9500	5.0	1.6	50.0000		95.9	79 - 117	4.90	20	
4-Chlorotoluene	48.2900	5.0	1.5	50.0000		96.6	77 - 118	5.05	20	
4-Isopropyltoluene	50.2000	5.0	2.3	50.0000		100	81 - 129	8.49	20	
Benzene	97.1300	5.0	0.64	100.000		97.1	78 - 112	6.50	20	
Bromobenzene	44.7000	5.0	1.1	50.0000		89.4	79 - 111	2.78	20	
Bromochloromethane	44.2400	5.0	0.64	50.0000		88.5	69 - 116	1.90	20	
Bromodichloromethane	45.4200	5.0	1.2	50.0000		90.8	79 - 111	3.50	20	
Bromoform	43.4300	5.0	0.80	50.0000		86.9	75 - 119	1.34	20	
Bromomethane	52.9500	5.0	2.5	50.0000		106	31 - 168	15.0	20	
Carbon disulfide	50.1200	5.0	3.5	50.0000		100	54 - 141	7.56	20	
Carbon tetrachloride	50.5600	5.0	1.2	50.0000		101	74 - 125	9.62	20	
Chlorobenzene	47.4000	5.0	1.0	50.0000		94.8	83 - 112	5.68	20	
Chloroethane	54.3200	5.0	1.1	50.0000		109	53 - 144	14.0	20	
Chloroform	45.9400	5.0	0.82	50.0000		91.9	69 - 118	4.18	20	
Chloromethane	51.7700	5.0	1.4	50.0000		104	46 - 137	11.6	20	
cis-1,2-Dichloroethene	45.6200	5.0	0.67	50.0000		91.2	68 - 118	5.81	20	
cis-1,3-Dichloropropene	54.8500	5.0	1.9	50.0000		110	77 - 121	2.20	20	
Di-isopropyl ether	46.8300	5.0	0.55	50.0000		93.7	60 - 129	2.97	20	
Dibromochloromethane	45.6600	5.0	1.0	50.0000		91.3	80 - 111	1.84	20	
Dibromomethane	45.8100	5.0	1.6	50.0000		91.6	78 - 108	1.71	20	
Dichlorodifluoromethane	59.9200	5.0	2.2	50.0000		120	41 - 146	11.6	20	
Ethyl Acetate	471.170	50	8.1	500.000		94.2	52 - 130	1.24	20	
Ethyl Ether	400.350	50	6.1	500.000		80.1	54 - 138	3.30	20	
Ethyl tert-butyl ether	50.2900	5.0	0.67	50.0000		101	52 - 141	2.86	20	
Ethylbenzene	94.7900	5.0	0.91	100.000		94.8	82 - 121	8.61	20	
Freon-113	50.7300	5.0	2.8	50.0000		101	59 - 139	10.3	20	
Hexachlorobutadiene	48.8700	5.0	2.5	50.0000		97.7	69 - 143	6.74	20	
Isopropylbenzene	51.5400	5.0	1.8	50.0000		103	78 - 124	8.72	20	
m,p-Xylene	101.610	10	1.5	100.000		102	85 - 118	7.05	20	
Methylene chloride	36.5500	5.0	2.3	50.0000		73.1	44 - 146	5.20	20	
MTBE	46.5100	5.0	0.63	50.0000		93.0	61 - 122	1.56	20	
n-Butylbenzene	51.1600	5.0	2.4	50.0000		102	78 - 135	8.64	20	
n-Propylbenzene	49.0900	5.0	2.2	50.0000		98.2	78 - 127	7.49	20	
Naphthalene	49.3200	5.0	0.97	50.0000		98.6	68 - 129	4.33	20	
o-Xylene	98.8600	5.0	0.87	100.000		98.9	86 - 118	6.66	20	
sec-Butylbenzene	49.6700	5.0	2.3	50.0000		99.3	80 - 127	7.74	20	

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0400 - MSVOA_S (continued)										
LCS Dup (B9G0400-BSD1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
Styrene	49.3000	5.0	1.5	50.0000		98.6	85 - 117	4.81	20	
tert-Amyl methyl ether	50.7500	5.0	0.59	50.0000		102	48 - 135	0.138	20	
tert-Butanol	153.000	100	19	250.000		61.2	0 - 175	64.9	20	R
tert-Butylbenzene	49.8200	5.0	2.0	50.0000		99.6	81 - 122	7.05	20	
Tetrachloroethene	50.0200	5.0	1.6	50.0000		100	77 - 122	11.4	20	
Toluene	95.8600	5.0	0.94	100.000		95.9	79 - 114	6.52	20	
trans-1,2-Dichloroethene	46.1800	5.0	0.59	50.0000		92.4	66 - 125	4.00	20	
trans-1,3-Dichloropropene	47.6900	5.0	2.1	50.0000		95.4	76 - 120	0.377	20	
Trichloroethene	49.2200	5.0	3.1	50.0000		98.4	79 - 117	7.92	20	
Trichlorofluoromethane	48.7700	5.0	1.4	50.0000		97.5	55 - 133	12.5	20	
Vinyl acetate	458.620	50	9.8	500.000		91.7	52 - 141	0.513	20	
Vinyl chloride	54.9000	5.0	1.7	50.0000		110	58 - 132	10.3	20	
Surrogate: 1,2-Dichloroethane-d4	*44.35*			*50.0000*		*88.7*	*60 - 145*			
Surrogate: 4-Bromofluorobenzene	*50.67*			*50.0000*		*101*	*68 - 121*			
Surrogate: Dibromofluoromethan	*45.69*			*50.0000*		*91.4*	*65 - 137*			
Surrogate: Toluene-d8	*49.22*			*50.0000*		*98.4*	*82 - 119*			

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0443 - MSVOA_S										
LCS (B9G0443-BS1)					Prepared: 7/18/2019 Analyzed: 7/18/2019					
1,1,1,2-Tetrachloroethane	50.0200	5.0	0.96	50.0000		100	82 - 114			
1,1,1-Trichloroethane	53.6800	5.0	1.1	50.0000		107	70 - 121			
1,1,2,2-Tetrachloroethane	50.0800	5.0	0.62	50.0000		100	65 - 116			
1,1,2-Trichloroethane	47.0400	5.0	1.6	50.0000		94.1	73 - 114			
1,1-Dichloroethane	51.1200	5.0	0.81	50.0000		102	69 - 117			
1,1-Dichloroethene	51.9700	5.0	2.6	50.0000		104	57 - 128			
1,1-Dichloropropene	59.5200	5.0	2.3	50.0000		119	76 - 122			
1,2,3-Trichloropropane	51.9600	5.0	0.54	50.0000		104	65 - 116			
1,2,3-Trichlorobenzene	51.5700	5.0	1.2	50.0000		103	72 - 130			
1,2,4-Trichlorobenzene	55.1700	5.0	1.1	50.0000		110	74 - 141			
1,2,4-Trimethylbenzene	53.0600	5.0	1.5	50.0000		106	81 - 126			
1,2-Dibromo-3-chloropropane	47.3100	10	1.6	50.0000		94.6	63 - 126			
1,2-Dibromoethane	46.4600	5.0	3.2	50.0000		92.9	75 - 113			
1,2-Dichlorobenzene	48.7200	5.0	1.1	50.0000		97.4	83 - 114			
1,2-Dichloroethane	49.3700	5.0	1.2	50.0000		98.7	73 - 115			
1,2-Dichloropropane	51.2700	5.0	1.8	50.0000		103	75 - 117			
1,3,5-Trimethylbenzene	54.4700	5.0	1.7	50.0000		109	80 - 126			
1,3-Dichlorobenzene	49.5500	5.0	1.3	50.0000		99.1	83 - 113			
1,3-Dichloropropane	50.1600	5.0	1.1	50.0000		100	79 - 108			
1,4-Dichlorobenzene	49.1800	5.0	1.2	50.0000		98.4	82 - 114			
2,2-Dichloropropane	54.1900	5.0	1.2	50.0000		108	66 - 135			
2-Chlorotoluene	52.2200	5.0	1.6	50.0000		104	79 - 117			
4-Chlorotoluene	53.1000	5.0	1.5	50.0000		106	77 - 118			
4-Isopropyltoluene	56.3800	5.0	2.3	50.0000		113	81 - 129			
Benzene	106.600	5.0	0.64	100.000		107	78 - 112			
Bromobenzene	49.0300	5.0	1.1	50.0000		98.1	79 - 111			
Bromochloromethane	46.4200	5.0	0.64	50.0000		92.8	69 - 116			
Bromodichloromethane	48.9200	5.0	1.2	50.0000		97.8	79 - 111			
Bromoform	45.5900	5.0	0.80	50.0000		91.2	75 - 119			
Bromomethane	24.3700	5.0	2.5	50.0000		48.7	31 - 168			
Carbon disulfide	55.5100	5.0	3.5	50.0000		111	54 - 141			
Carbon tetrachloride	56.4300	5.0	1.2	50.0000		113	74 - 125			
Chlorobenzene	52.3900	5.0	1.0	50.0000		105	83 - 112			
Chloroethane	58.8500	5.0	1.1	50.0000		118	53 - 144			
Chloroform	48.8500	5.0	0.82	50.0000		97.7	69 - 118			
Chloromethane	54.1500	5.0	1.4	50.0000		108	46 - 137			
cis-1,2-Dichloroethene	49.3300	5.0	0.67	50.0000		98.7	68 - 118			
cis-1,3-Dichloropropene	57.3000	5.0	1.9	50.0000		115	77 - 121			
Di-isopropyl ether	49.9600	5.0	0.55	50.0000		99.9	60 - 129			
Dibromochloromethane	48.7400	5.0	1.0	50.0000		97.5	80 - 111			
Dibromomethane	48.1400	5.0	1.6	50.0000		96.3	78 - 108			

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Report To : Meredith Church
Reported : 07/18/2019

Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0443 - MSVOA_S (continued)										
LCS (B9G0443-BS1) - Continued					Prepared: 7/18/2019 Analyzed: 7/18/2019					
Dichlorodifluoromethane	68.2000	5.0	2.2	50.0000		136	41 - 146			
Ethyl Acetate	447.850	50	8.1	500.000		89.6	52 - 130			
Ethyl Ether	423.490	50	6.1	500.000		84.7	54 - 138			
Ethyl tert-butyl ether	52.3600	5.0	0.67	50.0000		105	52 - 141			
Ethylbenzene	104.560	5.0	0.91	100.000		105	82 - 121			
Freon-113	57.3600	5.0	2.8	50.0000		115	59 - 139			
Hexachlorobutadiene	56.3400	5.0	2.5	50.0000		113	69 - 143			
Isopropylbenzene	58.5500	5.0	1.8	50.0000		117	78 - 124			
m,p-Xylene	108.910	10	1.5	100.000		109	85 - 118			
Methylene chloride	38.9700	5.0	2.3	50.0000		77.9	44 - 146			
MTBE	47.4200	5.0	0.63	50.0000		94.8	61 - 122			
n-Butylbenzene	58.2400	5.0	2.4	50.0000		116	78 - 135			
n-Propylbenzene	54.4900	5.0	2.2	50.0000		109	78 - 127			
Naphthalene	50.9000	5.0	0.97	50.0000		102	68 - 129			
o-Xylene	105.690	5.0	0.87	100.000		106	86 - 118			
sec-Butylbenzene	55.7200	5.0	2.3	50.0000		111	80 - 127			
Styrene	50.8000	5.0	1.5	50.0000		102	85 - 117			
tert-Amyl methyl ether	50.0300	5.0	0.59	50.0000		100	48 - 135			
tert-Butanol	163.890	100	19	250.000		65.6	0 - 175			
tert-Butylbenzene	55.2400	5.0	2.0	50.0000		110	81 - 122			
Tetrachloroethene	56.8000	5.0	1.6	50.0000		114	77 - 122			
Toluene	103.560	5.0	0.94	100.000		104	79 - 114			
trans-1,2-Dichloroethene	49.9000	5.0	0.59	50.0000		99.8	66 - 125			
trans-1,3-Dichloropropene	48.7800	5.0	2.1	50.0000		97.6	76 - 120			
Trichloroethene	54.3200	5.0	3.1	50.0000		109	79 - 117			
Trichlorofluoromethane	55.9200	5.0	1.4	50.0000		112	55 - 133			
Vinyl acetate	481.190	50	9.8	500.000		96.2	52 - 141			
Vinyl chloride	54.1000	5.0	1.7	50.0000		108	58 - 132			
Surrogate: 1,2-Dichloroethane-d4	*44.25*			*50.0000*		*88.5*	*60 - 145*			
Surrogate: 4-Bromofluorobenzene	*49.27*			*50.0000*		*98.5*	*68 - 121*			
Surrogate: Dibromofluoromethan	*45.48*			*50.0000*		*91.0*	*65 - 137*			
Surrogate: Toluene-d8	*49.27*			*50.0000*		*98.5*	*82 - 119*			
LCS Dup (B9G0443-BSD1)					Prepared: 7/18/2019 Analyzed: 7/18/2019					
1,1,1,2-Tetrachloroethane	49.4800	5.0	0.96	50.0000		99.0	82 - 114	1.09	20	
1,1,1-Trichloroethane	52.0600	5.0	1.1	50.0000		104	70 - 121	3.06	20	
1,1,2,2-Tetrachloroethane	49.6200	5.0	0.62	50.0000		99.2	65 - 116	0.923	20	
1,1,2-Trichloroethane	46.8500	5.0	1.6	50.0000		93.7	73 - 114	0.405	20	
1,1-Dichloroethane	52.0000	5.0	0.81	50.0000		104	69 - 117	1.71	20	
1,1-Dichloroethene	49.9400	5.0	2.6	50.0000		99.9	57 - 128	3.98	20	
1,1-Dichloropropene	57.6200	5.0	2.3	50.0000		115	76 - 122	3.24	20	

Leighton & Associates
17781 Cowan Street
Irvine , CA 92614

Project Number : Brookfield - Moiola School, FV, 12418.0(
Report To : Meredith Church
Reported : 07/18/2019

Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0443 - MSVOA_S (continued)										
LCS Dup (B9G0443-BSD1) - Continued					Prepared: 7/18/2019 Analyzed: 7/18/2019					
1,2,3-Trichloropropane	50.5000	5.0	0.54	50.0000		101	65 - 116	2.85	20	
1,2,3-Trichlorobenzene	51.6600	5.0	1.2	50.0000		103	72 - 130	0.174	20	
1,2,4-Trichlorobenzene	55.4800	5.0	1.1	50.0000		111	74 - 141	0.560	20	
1,2,4-Trimethylbenzene	52.3900	5.0	1.5	50.0000		105	81 - 126	1.27	20	
1,2-Dibromo-3-chloropropane	45.9600	10	1.6	50.0000		91.9	63 - 126	2.89	20	
1,2-Dibromoethane	46.5400	5.0	3.2	50.0000		93.1	75 - 113	0.172	20	
1,2-Dichlorobenzene	48.2400	5.0	1.1	50.0000		96.5	83 - 114	0.990	20	
1,2-Dichloroethane	49.1600	5.0	1.2	50.0000		98.3	73 - 115	0.426	20	
1,2-Dichloropropane	51.2700	5.0	1.8	50.0000		103	75 - 117	0.00	20	
1,3,5-Trimethylbenzene	53.4700	5.0	1.7	50.0000		107	80 - 126	1.85	20	
1,3-Dichlorobenzene	49.4900	5.0	1.3	50.0000		99.0	83 - 113	0.121	20	
1,3-Dichloropropane	50.2000	5.0	1.1	50.0000		100	79 - 108	0.0797	20	
1,4-Dichlorobenzene	48.4300	5.0	1.2	50.0000		96.9	82 - 114	1.54	20	
2,2-Dichloropropane	54.2500	5.0	1.2	50.0000		108	66 - 135	0.111	20	
2-Chlorotoluene	51.5700	5.0	1.6	50.0000		103	79 - 117	1.25	20	
4-Chlorotoluene	52.0000	5.0	1.5	50.0000		104	77 - 118	2.09	20	
4-Isopropyltoluene	54.8300	5.0	2.3	50.0000		110	81 - 129	2.79	20	
Benzene	104.560	5.0	0.64	100.000		105	78 - 112	1.93	20	
Bromobenzene	48.0200	5.0	1.1	50.0000		96.0	79 - 111	2.08	20	
Bromochloromethane	46.1300	5.0	0.64	50.0000		92.3	69 - 116	0.627	20	
Bromodichloromethane	47.6700	5.0	1.2	50.0000		95.3	79 - 111	2.59	20	
Bromoform	44.3800	5.0	0.80	50.0000		88.8	75 - 119	2.69	20	
Bromomethane	24.2800	5.0	2.5	50.0000		48.6	31 - 168	0.370	20	
Carbon disulfide	53.7900	5.0	3.5	50.0000		108	54 - 141	3.15	20	
Carbon tetrachloride	55.5200	5.0	1.2	50.0000		111	74 - 125	1.63	20	
Chlorobenzene	51.3500	5.0	1.0	50.0000		103	83 - 112	2.01	20	
Chloroethane	56.1400	5.0	1.1	50.0000		112	53 - 144	4.71	20	
Chloroform	49.0400	5.0	0.82	50.0000		98.1	69 - 118	0.388	20	
Chloromethane	53.2400	5.0	1.4	50.0000		106	46 - 137	1.69	20	
cis-1,2-Dichloroethene	50.0100	5.0	0.67	50.0000		100	68 - 118	1.37	20	
cis-1,3-Dichloropropene	57.2300	5.0	1.9	50.0000		114	77 - 121	0.122	20	
Di-isopropyl ether	49.9300	5.0	0.55	50.0000		99.9	60 - 129	0.0601	20	
Dibromochloromethane	47.9900	5.0	1.0	50.0000		96.0	80 - 111	1.55	20	
Dibromomethane	48.6800	5.0	1.6	50.0000		97.4	78 - 108	1.12	20	
Dichlorodifluoromethane	76.7200	5.0	2.2	50.0000		153	41 - 146	11.8	20	L3
Ethyl Acetate	470.560	50	8.1	500.000		94.1	52 - 130	4.95	20	
Ethyl Ether	408.900	50	6.1	500.000		81.8	54 - 138	3.51	20	
Ethyl tert-butyl ether	52.9000	5.0	0.67	50.0000		106	52 - 141	1.03	20	
Ethylbenzene	103.420	5.0	0.91	100.000		103	82 - 121	1.10	20	
Freon-113	54.8100	5.0	2.8	50.0000		110	59 - 139	4.55	20	
Hexachlorobutadiene	56.1500	5.0	2.5	50.0000		112	69 - 143	0.338	20	
Isopropylbenzene	56.4900	5.0	1.8	50.0000		113	78 - 124	3.58	20	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.0(
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0443 - MSVOA_S (continued)										
LCS Dup (B9G0443-BSD1) - Continued					Prepared: 7/18/2019 Analyzed: 7/18/2019					
m,p-Xylene	109.000	10	1.5	100.000		109	85 - 118	0.0826	20	
Methylene chloride	47.9200	5.0	2.3	50.0000		95.8	44 - 146	20.6	20	R
MTBE	47.6800	5.0	0.63	50.0000		95.4	61 - 122	0.547	20	
n-Butylbenzene	57.1600	5.0	2.4	50.0000		114	78 - 135	1.87	20	
n-Propylbenzene	53.7800	5.0	2.2	50.0000		108	78 - 127	1.31	20	
Naphthalene	51.7400	5.0	0.97	50.0000		103	68 - 129	1.64	20	
o-Xylene	105.180	5.0	0.87	100.000		105	86 - 118	0.484	20	
sec-Butylbenzene	54.1800	5.0	2.3	50.0000		108	80 - 127	2.80	20	
Styrene	51.3200	5.0	1.5	50.0000		103	85 - 117	1.02	20	
tert-Amyl methyl ether	51.4300	5.0	0.59	50.0000		103	48 - 135	2.76	20	
tert-Butanol	68.6300	100	19	250.000		27.5	0 - 175	81.9	20	R
tert-Butylbenzene	54.2500	5.0	2.0	50.0000		108	81 - 122	1.81	20	
Tetrachloroethene	55.8500	5.0	1.6	50.0000		112	77 - 122	1.69	20	
Toluene	101.910	5.0	0.94	100.000		102	79 - 114	1.61	20	
trans-1,2-Dichloroethene	50.4000	5.0	0.59	50.0000		101	66 - 125	0.997	20	
trans-1,3-Dichloropropene	49.0300	5.0	2.1	50.0000		98.1	76 - 120	0.511	20	
Trichloroethene	53.3800	5.0	3.1	50.0000		107	79 - 117	1.75	20	
Trichlorofluoromethane	56.2200	5.0	1.4	50.0000		112	55 - 133	0.535	20	
Vinyl acetate	488.830	50	9.8	500.000		97.8	52 - 141	1.58	20	
Vinyl chloride	54.5500	5.0	1.7	50.0000		109	58 - 132	0.828	20	
Surrogate: 1,2-Dichloroethane-d4	*44.85*			*50.0000*		*89.7*	*60 - 145*			
Surrogate: 4-Bromofluorobenzene	*51.03*			*50.0000*		*102*	*68 - 121*			
Surrogate: Dibromofluoromethan	*46.38*			*50.0000*		*92.8*	*65 - 137*			
Surrogate: Toluene-d8	*49.85*			*50.0000*		*99.7*	*82 - 119*			

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.0(
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/18/2019

Notes and Definitions

S10	Surrogate recovery was outside of laboratory acceptance limit due to possible matrix interference.
R2	RPD value outside acceptance criteria due to possible matrix interference.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
L3	Laboratory control sample outside in-house established limits but within method criteria.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20180415

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☒	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED		
☐ GSO	3. CONTAINER INTACT	☒	☐	7. COOLER TEMP, deg C:		
☐ Other: DC	4. SEALED	☐	☒			

CUSTOMER

Company: Leighton and Associates, Inc.		Address: 17781 Cowan	Tel: (949) 681-4208
		City: Irvine / State: CA / Zip: 92614	Fax: (949) 250-1114
SEND REPORT TO:		SEND INVOICE TO: ☐ same as SEND REPORT TO	EDD: ☐ Excel ☐ EDF ☐ Equis ☐ _____
Attn: Meredith Church	Email: mchurch@leightongroup.com	Attn: Accounts Payable	Email: Acctpayable@leightongroup.com
Company: Leighton Consulting, Inc.		Company: Leighton and Associates, Inc.	QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV ☐ _____
Address: 17781 Cowan		Address: 17781 Cowan	
City: Irvine / State: CA / Zip: 92614		City: Irvine / State: CA / Zip: 92614	

PROJECT SAMPLES

Project Name: Brookfield - Moiola School, FV
Quote #: Leighton 2019
Special Instructions/Comments:
Project No.: 12418.001
PO #: 12418.001
Sampler: Meredith Church, Steffani Seiler

ITEM	Laboratory ID (For Lab Use Only)	Sample Description: Sample ID / Location	Date	Time	8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic EPA 6010	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Container: Quantity	Container: Type	Container: Material	Container: Preservative	Remarks
1	1902701-01	B1-1.0	07/16/19	1405	X								X										X						2	1	5	1	4	
2	-02	B1-2.5	07/16/19	1407	X								X										X						2	1	5	1	4	
3	-03	B1-5.0	07/16/19	1409	X																		X						2	1	5	1	4	
4	-04	B2-1.0	07/16/19	1402	X								X										X						2	1	5	1	4	
5	-05	B2-2.5	07/16/19	1404	X								X										X						2	1	5	1	4	
6	-06	B2-5.0	07/16/19	1406	X																		X						2	1	5	1	4	
7	-07	B3-1.0	07/16/19	11 10	X								X										X						2	1	5	1	4	
8	-08	B3-2.5	07/16/19	11 15	X								X										X						2	1	5	1	4	
9	-09	B3-5.0	07/16/19	1117	X																		X						2	1	5	1	4	
10	-10	B3-5.0D	07/16/19	~~1118~~	X																		X						2	1	5	1	4	

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples submitted AFTER 3:00 PM are considered received the following business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work --- ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20 sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reformatted report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.
12. The laboratory will randomly select from all QC samples received the sample to spike for Matrix Spike/ Matrix Spike Duplicate (MS/MSD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Steffani Seiler	07/16/19	1510		7/16/19	16:38
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	7/16/19	3:10			
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Sheila Nava	7/16/19	17:53	FEDEX	7/16/19	1753

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

~~Meredith Church~~ Steffani Seiler (Printed Name) — Signature

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 2 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20180415

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☑ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED		
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton and Associates, Inc.	Address: 17781 Cowan		Tel: (949) 681-4208
	City: Irvine	State: CA Zip: 92614	Fax: (949) 250-1114
SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO		EDD: ☑ Excel ☐ EDF ☐ Equis ☐ _____
Attn: Meredith Church Email: mchurch@leightongroup.com	Attn: Accounts Payable Email: Acctpayable@leightongroup.com		QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV ☐ _____
Company: Leighton and Associates, Inc.	Company: Leighton and Associates, Inc.		
Address: 17781 Cowan	Address: 17781 Cowan		
City: Irvine State: CA Zip: 92614	City: Irvine State: CA Zip: 92614		

PROJECT SAMPLES

Project Name:	Quote #:	Special Instructions/Comments:
Brookfield - Moiola School, FV	Leighton 2019	
Project No.: 12418.001	PO #: 12418.001	
Sampler: Meredith Church, Steffani Seiler		

ITEM	Laboratory ID (For Lab Use Only)	Sample Description: Sample ID / Location	Date	Time	Requested Analysis: 8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic EPA 6010	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Sample Matrix: Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Container: Quantity	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 =4C; 5=Zn(Ac)2; 6=NaOH; 7=NA2S2O3	Remarks
1		~~B4-1.0~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
2		~~B4-2.5~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
3		~~B4-5.0~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
4	1903781-11	B5-1.0	07/16/19	1351	X								X										X						2	1	5	1	4	
5	-12	B5-2.5	07/16/19	1354	X								X										X						2	1	5	1	4	
6	-13	B5-2.5D	07/16/19		X								X										X						2	1	5	1	4	
7	-14	B5-5.0	07/16/19		X																		X						2	1	5	1	4	
8	-15	B6-1.0	07/16/19	1053	X								X										X						2	1	5	1	4	
9	-16	B6-2.5	07/16/19	1055	X								X										X						2	1	5	1	4	
10	-17	B6-5.0	07/16/19	1058	X																		X						2	1	5	1	4	

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples submitted AFTER 3:00 PM are considered received the following business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work --- ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20 sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reformatted report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.
12. The laboratory will randomly select from all QC samples received the sample to spike for Matrix Spike/ Matrix Spike Duplicate (MS/MSD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Steffani Seiler	07/16/19	1510	[illegible] Nuvia	7/16/19	16:38
[illegible]	7/16/19	1923			
[illegible]	7/16/19	17:58	[illegible]	7/16/19	1753

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

~~Meredith Church~~ Steffani Seiler (Printed Name) — Steffani Seiler (Signature)

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 3 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20180415

Method of Transport			Sample Conditions Upon Receipt					
			Condition	Y	N	Condition	Y	N
☑ Client	☐ ATL		1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx	☐ OnTrac		2. HEADSPACE (VOA)	☐	☐	6. PRESERVED		
☐ GSO			3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:			4. SEALED	☐	☐			

CUSTOMER

Company: Leighton and Associates, Inc.		Address: 17781 Cowan	Tel: (949) 681-4208
		City: Irvine / State: CA / Zip: 92614	Fax: (949) 250-1114
SEND REPORT TO:		SEND INVOICE TO: ☐ same as SEND REPORT TO	EDD: ☑ Excel ☐ EDF ☐ Equis ☐ _____
Attn: Meredith Church	Email: mchurch@leightongroup.com	Attn: Accounts Payable	Email: Acctpayable@leightongroup.com
Company: Leighton and Associates, Inc.		Company: Leighton and Associates, Inc.	QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV ☐ _____
Address: 17781 Cowan		Address: 17781 Cowan	
City: Irvine / State: CA / Zip: 92614		City: Irvine / State: CA / Zip: 92614	

PROJECT SAMPLES

Project Name:	Quote #:	Special Instructions/Comments:
Brookfield - Moiola School, FV	Leighton 2019	
Project No.: 12418.001	PO #: 12418.001	
Sampler: Meredith Church, Steffani Seiler		

ITEM	Laboratory ID (For Lab Use Only)	Sample Description: Sample ID / Location	Date	Time	8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic EPA 6010	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Container: Quantity	Container: Type	Container: Material	Container: Preservative	Remarks
1		~~B7-1.0~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
2		~~B7-2.5~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
3		~~B7-5.0~~	~~07/16/19~~		X																		X						2	1	5	1	4	
4	1902701-18	B7-GW	07/16/19			X																			X				2		2	1	1/4	
5	-19	B8-1.0	07/16/19	1348	X								X										X						2	1	5	1	4	
6	-20	B8-2.5	07/16/19	1350	X								X										X						2	1	5	1	4	
7	-21	B8-5.0	07/16/19	1353	X																		X						2	1	5	1	4	
8	-22	B9-1.0	07/16/19	1337	X								X										X						2	1	5	1	4	
9	-23	B9-2.5	07/16/19	1340	X								X										X						2	1	5	1	4	
10	-24	B9-5.0	07/16/19	1342	X																		X						2	1	5	1	4	

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples submitted AFTER 3:00 PM are considered received the following business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
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7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
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CUSTODY

	Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
1	Steffani Seiler	07/16/19	1510		7/16/19	16:35
2		7/16/19	3:23		Date:	Time:
3		7/16/19	17:53		7/16/19	17:53

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

~~Meredith Church~~ Steffani Seiler (Printed Name) — Signature

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 4 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20180415

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☑ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED		
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton and Associates, Inc.		Address: 17781 Cowan	Tel: (949) 681-4208
		City: Irvine State: CA Zip: 92614	Fax: (949) 250-1114
SEND REPORT TO:		SEND INVOICE TO: ☐ same as SEND REPORT TO	
Attn: Meredith Church	Email: mchurch@leightongroup.com	Attn: Accounts Payable	Email: Acctpayable@leightongroup.com
Company: Leighton and Associates, Inc.		Company: Leighton and Associates, Inc.	
Address: 17781 Cowan		Address: 17781 Cowan	
City: Irvine State: CA Zip: 92614		City: Irvine State: CA Zip: 92614	

EDD: ☑ Excel ☐ EDF ☐ Equis ☐ _____

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV ☐ _____

PROJECT SAMPLES

Project Name: Brookfield - Moiola School, FV
Project No.: 12418.001
Sampler: Meredith Church, Steffani Seiler
Quote #: Leighton 2019
PO #: 12418.001
Special Instructions/Comments:

ITEM	Laboratory ID (For Lab Use Only)	Sample Description: Sample ID / Location	Date	Time	8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic EPA 6010	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Container: Quantity	Container: Type (1=Tube, 2=VOA, 3=Liter, 4=Pint, 5=Jar, 6=Tedlar, 7=Canister)	Container: Material (1=Glass, 2=Plastic, 3=Metal)	Container: Preservative (1=HCl, 2=HNO3, 3=H2SO4, 4=4oC, 5=EnCore, 6=NaOH, 7=NA2S2O3)	Remarks
1	1902701-26	B10-1.0	07/16/19	1221	X								X										X						2	1	5	1	4	
2	-25	B10-1.0D	07/16/19	~~1223~~	X								X										X						2	1	5	1	4	
3	-27	B10-2.5	07/16/19	1223	X								X										X						2	1	5	1	4	
4	-28	B10-5.0	07/16/19	1227	X	X																	X						2	4	5	1	1	5035
5	-29	B10-10.0	07/16/19	1240		X																	X						2	4	5	1	4	5035
6	-30	B10-GW	07/16/19	1245		X																			X				2		2	1	1,4	
7	-31	B11-1.0	07/16/19	1142	X								X										X						2	1	5	1	4	
8	-32	B11-2.5	07/16/19	1145	X								X										X						2	1	5	1	4	
9	-33	B11-5.0	07/16/19	1147	X																		X						2	1	5	1	4	
10	-34	B11-GW	07/16/19	1200		X																			X				2		2	1	1/4	

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
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CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Steffani Seiler	07/16/19	1510			
	7/16/19	3:23		7/16/19	16:38
	7/16/19	17:53		7/16/19	1753

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

~~Meredith Church~~ Steffani Seiler (Printed Name) — (Signature)

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 5 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20180415

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☑ Client ☐ ATL ☐ FedEx ☐ OnTrac ☐ GSO ☐ Other:	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED		
	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton and Associates, Inc.
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614
Tel: (949) 681-4208
Fax: (949) 250-1114

SEND REPORT TO:
Attn: Meredith Church Email: mchurch@leightongroup.com
Company: Leighton and Associates, Inc.
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounts Payable Email: Acctpayable@leightongroup.com
Company: Leighton and Associates, Inc.
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

EDD: ☑ Excel ☐ EDF ☐ Equis ☐ _____
QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV ☐ _____

PROJECT SAMPLES

Project Name: Brookfield - Moiola School, FV
Project No.: 12418.001
Sampler: Meredith Church, Steffani Seiler
Quote #: Leighton 2019
PO #: 12418.001
Special Instructions/Comments:

ITEM	Laboratory ID (For Lab Use Only)	Sample Description: Sample ID / Location	Date	Time	Requested Analysis: 8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic EPA 6010	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Sample Matrix: Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Container: Quantity	Container: Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Container: Material: 1=Glass; 2=Plastic; 3=Metal	Container: Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn(Ac)2, 6=NaOH; 7=NA2S2O3	Remarks
1		~~B12-1.0~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
2		~~B12-1.0D~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
3		~~B12-2.5~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
4		~~B12-5.0~~	~~07/16/19~~		X																		X						2	1	5	1	1	
5	1902701-35	B13-1.0	07/16/19	1257	X	X							X										X						2	4	5	1	4	5035
6	-36	B13-2.5	07/16/19	1300	X	X							X										X						2	4	5	1	4	5035
7	-37	B13-5.0	07/16/19	1303	X	X																	X						2	4	5	1	4	5035
8	-38	B13-10.0	07/16/19	1310	X	X																	X						2	4	5	1	4	5035
9	-39	B13-GW	07/16/19	1320		X																			X				2	3	2	1	1/4	
10	-40	B13-GWD	07/16/19			X																			X				2	3	2	1	1/4	

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
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   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
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CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Steffani Seiler	07/16/19	1510			
	7/16/19	3:23		7/16/19	16:38
Emelda Nava	7/16/19	17:53		7/16/19	1753

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

~~Meredith Church~~ Steffani Seiler (Printed Name) — (Signature)

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only ATLCOC Ver:20180415

Method of Transport		Sample Conditions Upon Receipt					
		Condition	Y	N	Condition	Y	N
☑ Client	☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx	☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED		
☐ GSO		3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:		4. SEALED	☐	☐			

CUSTOMER

Company: Leighton and Associates, Inc.		Address: 17781 Cowan	Tel: (949) 681-4208
		City: Irvine State: CA Zip: 92614	Fax: (949) 250-1114
SEND REPORT TO:		SEND INVOICE TO: ☐ same as SEND REPORT TO	EDD: ☑ Excel ☐ EDF ☐ Equis ☐ _____
Attn: Meredith Church	Email: mchurch@leightongroup.com	Attn: Accounts Payable	Email: Acctpayable@leightongroup.com
Company: Leighton and Associates, Inc.		Company: Leighton and Associates, Inc.	QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV ☐ _____
Address: 17781 Cowan		Address: 17781 Cowan	
City: Irvine State: CA Zip: 92614		City: Irvine State: CA Zip: 92614	

PROJECT SAMPLES

Project Name: Brookfield - Moiola School, FV
Project No.: 12418.001
Sampler: Meredith Church, Steffani Seiler
Quote #: Leighton 2019
PO #: 12418.001
Special Instructions/Comments:

ITEM	Laboratory ID (For Lab Use Only)	Sample Description: Sample ID / Location	Date	Time	8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic EPA 6010	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Container: Quantity	Container: Type	Container: Material	Container: Preservative	Remarks
1		~~B14-1.0~~	~~07/16/19~~		X	X							X										X						2	4	5	1	4	5035
2		~~B14-2.5~~	~~07/16/19~~		X	X							X										X						2	4	5	1	4	5035
3		~~B14-2.5D~~	~~07/16/19~~		X	X							X										X						2	4	5	1	4	5035
4		~~B14-5.0~~	~~07/16/19~~		X	X																	X						2	4	5	1	1	5035
5		~~B14-10.0~~	~~07/16/19~~			X																	X						2	4	5	1	4	5035
6	1902701-01	B14-GW	07/16/19			X																			X				2		2	1	1,4	
7		~~B15-1.0~~	~~07/16/19~~		X								X										X						2	4	5	1	4	
8		~~B15-2.5~~	~~07/16/19~~		X								X										X						2	4	5	1	4	
9		~~B15-5.0~~	~~07/16/19~~		X																		X						2		2	1	1,4	
10																																		

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
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CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Steffani Seiler	07/16/19	1510			
	7/16/19	3:23			
	7/16/19	17:53		7/16/19	17:53

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

~~Meredith Church~~ Steffani Seiler (Printed Name)

(Signature)

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20180415

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☑ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED		
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton and Associates, Inc.		Address: 17781 Cowan	Tel: (949) 681-4208
		City: Irvine / State: CA / Zip: 92614	Fax: (949) 250-1114
SEND REPORT TO:		SEND INVOICE TO: ☐ same as SEND REPORT TO	
Attn: Meredith Church	Email: mchurch@leightongroup.com	Attn: Accounts Payable	Email: Acctpayable@leightongroup.com
Company: Leighton and Associates, Inc.		Company: Leighton and Associates, Inc.	
Address: 17781 Cowan		Address: 17781 Cowan	
City: Irvine / State: CA / Zip: 92614		City: Irvine / State: CA / Zip: 92614	

EDD: ☑ Excel ☐ EDF ☐ Equis ☐ _____

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV ☐ _____

PROJECT SAMPLES

Project Name: Brookfield - Moiola School, FV
Project No.: 12418.001
Sampler: Meredith Church, Steffani Seiler
Quote #: Leighton 2019
PO #: 12418.001
Special Instructions/Comments:

ITEM	Laboratory ID (For Lab Use Only)	Sample Description: Sample ID / Location	Date	Time	8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic EPA 6010	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Container: Quantity	Container: Type (1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister)	Container: Material (1=Glass; 2=Plastic; 3=Metal)	Container: Preservative (1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=ZnAc2; 6=NaOH; 7=NA2S2O3)	Remarks
1		~~B16-1.0~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
2		~~B16-2.5~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
3		~~B16-5.0~~	~~07/16/19~~		X																		X						2	1	5	1	4	
4		~~B17-1.0~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
5		~~B17-2.5~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
6		~~B17-5.0~~	~~07/16/19~~		X																		X						2	1	5	1	4	
7		~~B18-1.0~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
8		~~B18-2.5~~	07/16/19		X								X										X						2	1	5	1	4	
9		~~B18-5.0~~	~~07/16/19~~		X																		X						2	1	5	1	4	
10																																			

TERMS

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CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Steffani Seiler	07/16/19	1510			
	7/16/19	3:13		7/16/19	16:38
	7/16/19	17:53		7/16/19	1753

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

~~Meredith Church~~ Steffani Seiler (Printed Name) — Steffani Seiler (Signature)

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 8 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20180415

Method of Transport		Sample Conditions Upon Receipt					
		Condition	Y	N	Condition	Y	N
☑ Client	☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx	☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED		
☐ GSO		3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:		4. SEALED	☐	☐			

CUSTOMER

Company: Leighton and Associates, Inc.		Address: 17781 Cowan	Tel: (949) 681-4208
		City: Irvine / State: CA / Zip: 92614	Fax: (949) 250-1114
SEND REPORT TO:		SEND INVOICE TO: ☐ same as SEND REPORT TO	
Attn: Meredith Church	Email: mchurch@leightongroup.com	Attn: Accounts Payable	Email: Acctpayable@leightongroup.com
Company: Leighton and Associates, Inc.		Company: Leighton and Associates, Inc.	
Address: 17781 Cowan		Address: 17781 Cowan	
City: Irvine / State: CA / Zip: 92614		City: Irvine / State: CA / Zip: 92614	

EDD: ☑ Excel ☐ EDF ☐ Equis ☐ _____

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV ☐ _____

PROJECT SAMPLES

Project Name: Brookfield - Moiola School, FV
Project No.: 12418.001
Sampler: Meredith Church, Steffani Seiler
Quote #: Leighton 2019
PO #: 12418.001
Special Instructions/Comments:

ITEM	Laboratory ID (For Lab Use Only)	Sample Description: Sample ID / Location	Date	Time	8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic EPA 6010	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Container: Quantity	Container: Type (1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister)	Container: Material (1=Glass; 2=Plastic; 3=Metal)	Container: Preservative (1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn(Ac)2; 6=NaOH; 7=NA2S2O3)	Remarks
1		~~B19-1.0~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
2		~~B19-2.5~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
3		~~B19-5.0~~	~~07/16/19~~		X																		X						2	1	5	1	4	
4		~~B19-5.0D~~	~~07/16/19~~		X																		X						2	1	5	1	4	
5		~~B20-1.0~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
6		~~B20-2.5~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
7		~~B20-5.0~~	~~07/16/19~~		X																		X						2	1	5	1	4	
8		~~B21-1.0~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
9		~~B21-2.5~~	07/16/19		X								X										X						2	1	5	1	4	
10		~~B21-5.0~~	~~07/16/19~~		X																		X						2	1	5	1	4	

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CHAIN OF CUSTODY RECORD

Page 9 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only ATLCOC Ver:20180415

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☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED		
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton and Associates, Inc.
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614
Tel: (949) 681-4208
Fax: (949) 250-1114

SEND REPORT TO:
Attn: Meredith Church Email: mchurch@leightongroup.com
Company: Leighton and Associates, Inc.
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounts Payable Email: Acctpayable@leightongroup.com
Company: Leighton and Associates, Inc.
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

EDD: ☑ Excel ☐ EDF ☐ Equis ☐ _____
QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV ☐ _____

PROJECT SAMPLES

Project Name: Brookfield - Moiola School, FV
Project No.: 12418.001
Sampler: Meredith Church, Steffani Seiler
Quote #: Leighton 2019
PO #: 12418.001
Special Instructions/Comments: 8015-DRO & ORO Drum Sample 8260 - VOCs & GRO

ITEM	Laboratory ID (For Lab Use Only)	Sample Description: Sample ID / Location	Date	Time
1	1902701-01	Trip Blank	07/16/19	
2	-03	Drum	07/16/19	
3				
4				
5				
6				
7				
8				
9				
10				

Requested Analysis	Sample Matrix	Turnaround Time (TAT)	Container: Quantity	Container: Type	Container: Material	Container: Preservative	Remarks
8081 (Organochlorine Pesticides)	Select Soil Matrix						
8260 / 624 (Volatiles)	Select Solid Matrix						
8015 (DRO)	Select Water Matrix						
6010 / 7000 (Title 22 Metals)	Select Wastewater Matrix						
Select Analysis	Select Non-aqueous Matrix						
Select Analysis	Enter Custom Matrix						
Select Analysis							
Select Analysis							
Arsenic EPA 6010							
Enter Custom Analysis							
Enter Custom Analysis							
Enter Custom Analysis							
Enter Custom Analysis							
Enter Custom Analysis							
Enter Custom Analysis							
Enter Custom Analysis							
Enter Custom Analysis							
Enter Custom Analysis							
Enter Custom Analysis							
Item 1: X	Item 1: X	2	2	2	1	4	
Item 2: X X X X	Item 2:	2	1	5	1	4	

Container — Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister
Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=ZnAc2; 6=NaOH; 7=NA2SO3

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Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
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	7/16/19	3:23		7/16/19	16:33
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July 22, 2019

Meredith Church
Leighton & Associates
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 681-4208
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 1902701

Client Reference : Brookfield - Moiola School, FV, 12418.001

Enclosed are the results for sample(s) received on July 16, 2019 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Edgar Caballero

President & Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Leighton & Associates		Project Number :	Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street		Report To :	Meredith Church
Irvine , CA 92614		Reported :	07/22/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1-1.0	1902701-01	Soil	7/15/19 14:05	7/16/19 16:38
B1-2.5	1902701-02	Soil	7/15/19 14:07	7/16/19 16:38
B1-5.0	1902701-03	Soil	7/15/19 14:09	7/16/19 16:38
B2-1.0	1902701-04	Soil	7/15/19 14:02	7/16/19 16:38
B2-2.5	1902701-05	Soil	7/15/19 14:04	7/16/19 16:38
B2-5.0	1902701-06	Soil	7/15/19 14:06	7/16/19 16:38
B3-1.0	1902701-07	Soil	7/15/19 11:10	7/16/19 16:38
B3-2.5	1902701-08	Soil	7/15/19 11:15	7/16/19 16:38
B3-5.0	1902701-09	Soil	7/15/19 11:17	7/16/19 16:38
B3-5.0D	1902701-10	Soil	7/15/19 0:00	7/16/19 16:38
B5-1.0	1902701-11	Soil	7/15/19 13:51	7/16/19 16:38
B5-2.5	1902701-12	Soil	7/15/19 13:54	7/16/19 16:38
B5-2.5D	1902701-13	Soil	7/15/19 0:00	7/16/19 16:38
B5-5.0	1902701-14	Soil	7/15/19 0:00	7/16/19 16:38
B6-1.0	1902701-15	Soil	7/15/19 10:53	7/16/19 16:38
B6-2.5	1902701-16	Soil	7/15/19 10:55	7/16/19 16:38
B6-5.0	1902701-17	Soil	7/15/19 10:58	7/16/19 16:38
B7-GW	1902701-18	Water	7/15/19 0:00	7/16/19 16:38
B8-1.0	1902701-19	Soil	7/15/19 13:48	7/16/19 16:38
B8-2.5	1902701-20	Soil	7/15/19 13:50	7/16/19 16:38
B8-5.0	1902701-21	Soil	7/15/19 13:53	7/16/19 16:38
B9-1.0	1902701-22	Soil	7/15/19 13:37	7/16/19 16:38
B9-2.5	1902701-23	Soil	7/15/19 13:40	7/16/19 16:38
B9-5.0	1902701-24	Soil	7/15/19 13:42	7/16/19 16:38
B10-1.0	1902701-25	Soil	7/15/19 12:21	7/16/19 16:38
B10-1.0D	1902701-26	Soil	7/15/19 0:00	7/16/19 16:38
B10-2.5	1902701-27	Soil	7/15/19 12:23	7/16/19 16:38
B10-5.0	1902701-28	Soil	7/15/19 12:27	7/16/19 16:38
B10-10.0	1902701-29	Soil	7/15/19 12:40	7/16/19 16:38
B10-GW	1902701-30	Water	7/15/19 12:45	7/16/19 16:38
B11-1.0	1902701-31	Soil	7/15/19 11:42	7/16/19 16:38
B11-2.5	1902701-32	Soil	7/15/19 11:45	7/16/19 16:38
B11-5.0	1902701-33	Soil	7/15/19 11:47	7/16/19 16:38
B11-GW	1902701-34	Water	7/15/19 12:00	7/16/19 16:38
B13-1.0	1902701-35	Soil	7/15/19 12:57	7/16/19 16:38
B13-2.5	1902701-36	Soil	7/15/19 13:00	7/16/19 16:38
B13-5.0	1902701-37	Soil	7/15/19 13:03	7/16/19 16:38

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B13-10.0	1902701-38	Soil	7/15/19 13:10	7/16/19 16:38
B13-GW	1902701-39	Water	7/15/19 13:20	7/16/19 16:38
B13-GWD	1902701-40	Water	7/15/19 0:00	7/16/19 16:38
B14-GW	1902701-41	Water	7/15/19 0:00	7/16/19 16:38
Trip Blank	1902701-42	Water	7/15/19 0:00	7/16/19 16:38
Drum	1902701-43	Soil	7/15/19 0:00	7/16/19 16:38

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DETECTION SUMMARY

Client Sample ID B1-1.0

Lab ID: 1902701-01

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	1	B9G0405	07/17/2019	07/18/19 12:37	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**390**	20	10	B9G0438	07/17/2019	07/20/19 16:54	
4,4´-DDT [2C]	**50**	2.0	1	B9G0438	07/17/2019	07/19/19 14:49	
Dieldrin [2C]	**4.4**	2.0	1	B9G0438	07/17/2019	07/19/19 14:49	
Toxaphene	**190**	50	1	B9G0438	07/17/2019	07/19/19 14:49	

Client Sample ID B1-2.5

Lab ID: 1902701-02

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	1	B9G0405	07/17/2019	07/18/19 12:38	

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DETECTION SUMMARY

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**29**	2.0	1	B9G0438	07/17/2019	07/19/19 14:59	
4,4´-DDT [2C]	**2.4**	2.0	1	B9G0438	07/17/2019	07/19/19 14:59	

Client Sample ID B1-5.0

Lab ID: 1902701-03

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**2.1**	2.0	1	B9G0438	07/17/2019	07/19/19 15:10	

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DETECTION SUMMARY

Client Sample ID B2-1.0

Lab ID: 1902701-04

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.3**	1.0	1	B9G0405	07/17/2019	07/18/19 12:39	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**110**	10	5	B9G0438	07/17/2019	07/20/19 17:25	
4,4´-DDT [2C]	**13**	10	5	B9G0438	07/17/2019	07/20/19 17:25	

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DETECTION SUMMARY

Client Sample ID B2-2.5

Lab ID: 1902701-05

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.3**	1.0	1	B9G0405	07/17/2019	07/18/19 12:41	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**18**	2.0	1	B9G0438	07/17/2019	07/19/19 15:41	
4,4´-DDT [2C]	**2.1**	2.0	1	B9G0438	07/17/2019	07/19/19 15:41	

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DETECTION SUMMARY

Client Sample ID B3-1.0

Lab ID: 1902701-07

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.8**	1.0	1	B9G0405	07/17/2019	07/18/19 12:44	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**7.3**	2.0	1	B9G0438	07/17/2019	07/19/19 16:02	
4,4´-DDE	**170**	20	10	B9G0438	07/17/2019	07/20/19 17:04	
4,4´-DDT [2C]	**14**	2.0	1	B9G0438	07/17/2019	07/19/19 16:02	

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DETECTION SUMMARY

Client Sample ID B3-2.5

Lab ID: 1902701-08

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.3**	1.0	1	B9G0405	07/17/2019	07/18/19 12:46	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**6.3**	2.0	1	B9G0438	07/17/2019	07/19/19 16:13	
4,4´-DDE	**160**	20	10	B9G0438	07/17/2019	07/20/19 17:15	
4,4´-DDT [2C]	**13**	2.0	1	B9G0438	07/17/2019	07/19/19 16:13	
Dieldrin	**2.6**	2.0	1	B9G0438	07/17/2019	07/19/19 16:13	

Client Sample ID B3-5.0D

Lab ID: 1902701-10

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**2.3**	2.0	1	B9G0438	07/17/2019	07/19/19 16:44	
4,4´-DDE	**23**	2.0	1	B9G0438	07/17/2019	07/19/19 16:44	
4,4´-DDT [2C]	**2.4**	2.0	1	B9G0438	07/17/2019	07/19/19 16:44	

Client Sample ID B5-1.0

Lab ID: 1902701-11

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	1	B9G0405	07/17/2019	07/18/19 12:47	

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DETECTION SUMMARY

Client Sample ID B5-2.5

Lab ID: 1902701-12

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.8**	1.0	1	B9G0405	07/17/2019	07/18/19 12:48	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**37**	2.0	1	B9G0438	07/17/2019	07/19/19 23:22	
4,4´-DDT [2C]	**5.4**	2.0	1	B9G0438	07/17/2019	07/19/19 23:22	

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Client Sample ID B5-2.5D

Lab ID: 1902701-13

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	1	B9G0405	07/17/2019	07/18/19 12:49	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**39**	2.0	1	B9G0438	07/17/2019	07/19/19 23:32	
4,4´-DDT [2C]	**5.9**	2.0	1	B9G0438	07/17/2019	07/19/19 23:32	

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Client Sample ID B6-1.0

Lab ID: 1902701-15

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.8**	1.0	1	B9G0405	07/17/2019	07/18/19 12:50	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**2.6**	2.0	1	B9G0438	07/17/2019	07/19/19 23:53	
4,4´-DDT	**2.3**	2.0	1	B9G0438	07/17/2019	07/19/19 23:53	

Client Sample ID B6-2.5

Lab ID: 1902701-16

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.5**	1.0	1	B9G0405	07/17/2019	07/18/19 12:52	

Client Sample ID B7-GW

Lab ID: 1902701-18

Volatile Organic Compounds by EPA 8260B — **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromoform	**16**	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Dibromochloromethane	**6.2**	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Toluene	**0.51**	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	

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Client Sample ID B8-1.0

Lab ID: 1902701-19

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.1**	1.0	1	B9G0405	07/17/2019	07/18/19 12:53	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**7.8**	2.0	1	B9G0438	07/17/2019	07/20/19 00:25	

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Client Sample ID B8-2.5

Lab ID: 1902701-20

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.6**	1.0	1	B9G0405	07/17/2019	07/18/19 12:54	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**2.1**	2.0	1	B9G0438	07/17/2019	07/19/19 14:17	

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Client Sample ID B9-1.0

Lab ID: 1902701-22

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.2**	1.0	1	B9G0405	07/17/2019	07/18/19 12:55	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**5.4**	2.0	1	B9G0439	07/17/2019	07/22/19 10:51	

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Client Sample ID B9-2.5

Lab ID: 1902701-23

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	1	B9G0405	07/17/2019	07/18/19 12:59	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**41**	2.0	1	B9G0439	07/17/2019	07/20/19 01:27	
4,4´-DDT	**6.3**	2.0	1	B9G0439	07/17/2019	07/20/19 01:27	

Client Sample ID B10-1.0

Lab ID: 1902701-25

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	1	B9G0405	07/17/2019	07/18/19 13:00	

Client Sample ID B10-1.0D

Lab ID: 1902701-26

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.1**	1.0	1	B9G0406	07/17/2019	07/18/19 13:20	

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Client Sample ID B10-2.5

Lab ID: 1902701-27

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	1	B9G0406	07/17/2019	07/18/19 13:21	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**2.3**	2.0	1	B9G0439	07/17/2019	07/20/19 01:06	

Client Sample ID B10-5.0

Lab ID: 1902701-28

Volatile Organic Compounds by EPA 5035 / EPA 8260B — **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	**82**	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Carbon disulfide	**11**	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Ethylbenzene	**5.7**	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Toluene	**47**	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	

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DETECTION SUMMARY

Client Sample ID B11-1.0

Lab ID: 1902701-31

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.9**	1.0	1	B9G0406	07/17/2019	07/18/19 13:22	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**140**	20	10	B9G0439	07/17/2019	07/22/19 10:30	
4,4´-DDT [2C]	**11**	2.0	1	B9G0439	07/17/2019	07/20/19 02:19	

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Client Sample ID B11-2.5

Lab ID: 1902701-32

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.4**	1.0	1	B9G0406	07/17/2019	07/18/19 13:23	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**24**	2.0	1	B9G0439	07/17/2019	07/20/19 02:30	
4,4´-DDE	**510**	20	10	B9G0439	07/17/2019	07/22/19 10:41	
4,4´-DDT [2C]	**52**	2.0	1	B9G0439	07/17/2019	07/20/19 02:30	
Dieldrin	**5.4**	2.0	1	B9G0439	07/17/2019	07/20/19 02:30	

Client Sample ID B11-5.0

Lab ID: 1902701-33

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**16**	2.0	1	B9G0439	07/17/2019	07/20/19 02:40	

Client Sample ID B11-GW

Lab ID: 1902701-34

Volatile Organic Compounds by EPA 8260B — **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromoform	**1.6**	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	

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Client Sample ID B13-1.0

Lab ID: 1902701-35

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.8**	1.0	1	B9G0406	07/17/2019	07/18/19 13:27	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD [2C]	**2.3**	2.0	1	B9G0439	07/17/2019	07/20/19 02:51	
4,4´-DDE	**38**	2.0	1	B9G0439	07/17/2019	07/20/19 02:51	
4,4´-DDT [2C]	**2.4**	2.0	1	B9G0439	07/17/2019	07/20/19 02:51	

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Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	**6.3**	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Toluene	**4.3**	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	

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Client Sample ID B13-2.5

Lab ID: 1902701-36

Total Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.6**	1.0	1	B9G0406	07/17/2019	07/18/19 13:28	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**46**	2.0	1	B9G0439	07/17/2019	07/20/19 16:12	

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DETECTION SUMMARY

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	**37**	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Carbon disulfide	**5.0**	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Toluene	**21**	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	

Client Sample ID B13-5.0

Lab ID: 1902701-37

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	**57**	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Carbon disulfide	**6.1**	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Toluene	**32**	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	

Client Sample ID B13-10.0

Lab ID: 1902701-38

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	**92**	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Ethylbenzene	**7.7**	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
m,p-Xylene	**10**	9.7	1	B9G0428	07/17/2019	07/17/19 19:48	
Toluene	**56**	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

DETECTION SUMMARY

Client Sample ID B13-GW

Lab ID: 1902701-39

Volatile Organic Compounds by EPA 8260B — **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	**0.77**	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Bromoform	**16**	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
cis-1,2-Dichloroethene	**13**	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Dibromochloromethane	**5.9**	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Toluene	**0.80**	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	

Client Sample ID B13-GWD

Lab ID: 1902701-40

Volatile Organic Compounds by EPA 8260B — **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromoform	**16**	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
cis-1,2-Dichloroethene	**13**	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Dibromochloromethane	**5.5**	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	

Client Sample ID B14-GW

Lab ID: 1902701-41

Volatile Organic Compounds by EPA 8260B — **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	**120**	5.0	10	B9G0409	07/17/2019	07/17/19 18:01	
trans-1,2-Dichloroethene	**5.2**	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Trichloroethene	**12**	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

DETECTION SUMMARY

Client Sample ID Drum

Lab ID: 1902701-43

Title 22 Metals by ICP-AES EPA 6010B — **Analyst: GO**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.3**	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Barium	**81**	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Chromium	**16**	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Cobalt	**8.0**	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Copper	**15**	2.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Lead	**2.7**	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Nickel	**11**	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Vanadium	**30**	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Zinc	**44**	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	

Organochlorine Pesticides by EPA 8081 — **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDE	**46**	2.0	1	B9G0439	07/17/2019	07/20/19 16:43	
4,4´-DDT [2C]	**5.9**	2.0	1	B9G0439	07/17/2019	07/20/19 16:43	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B1-1.0
Lab ID: 1902701-01

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	1.0	1	B9G0405	07/17/2019	07/18/19 12:37	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:49	
4,4´-DDE	**390**	20	10	B9G0438	07/17/2019	07/20/19 16:54	
4,4´-DDT [2C]	**50**	2.0	1	B9G0438	07/17/2019	07/19/19 14:49	
Aldrin	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:49	
alpha-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:49	
alpha-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:49	
beta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:49	
Chlordane	ND	8.5	1	B9G0438	07/17/2019	07/19/19 14:49	
delta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:49	
Dieldrin [2C]	**4.4**	2.0	1	B9G0438	07/17/2019	07/19/19 14:49	
Endosulfan I	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:49	
Endosulfan II	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:49	
Endosulfan sulfate	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:49	
Endrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:49	
Endrin aldehyde	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:49	
Endrin ketone	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:49	
gamma-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:49	
gamma-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:49	
Heptachlor	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:49	
Heptachlor epoxide	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:49	
Methoxychlor	ND	5.0	1	B9G0438	07/17/2019	07/19/19 14:49	
Toxaphene	**190**	50	1	B9G0438	07/17/2019	07/19/19 14:49	
Surrogate: Decachlorobiphenyl	*83.5 %*	*32 - 91*		B9G0438	07/17/2019	*07/20/19 16:54*	
Surrogate: Decachlorobiphenyl	*68.4 %*	*32 - 91*		B9G0438	07/17/2019	*07/19/19 14:49*	
Surrogate: Tetrachloro-m-xylene	*82.0 %*	*38 - 93*		B9G0438	07/17/2019	*07/20/19 16:54*	
Surrogate: Tetrachloro-m-xylene	*81.1 %*	*38 - 93*		B9G0438	07/17/2019	*07/19/19 14:49*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B1-2.5
Lab ID: 1902701-02

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	1	B9G0405	07/17/2019	07/18/19 12:38	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:59	
4,4´-DDE	**29**	2.0	1	B9G0438	07/17/2019	07/19/19 14:59	
4,4´-DDT [2C]	**2.4**	2.0	1	B9G0438	07/17/2019	07/19/19 14:59	
Aldrin	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:59	
alpha-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:59	
alpha-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:59	
beta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:59	
Chlordane	ND	8.5	1	B9G0438	07/17/2019	07/19/19 14:59	
delta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:59	
Dieldrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:59	
Endosulfan I	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:59	
Endosulfan II	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:59	
Endosulfan sulfate	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:59	
Endrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:59	
Endrin aldehyde	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:59	
Endrin ketone	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:59	
gamma-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:59	
gamma-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:59	
Heptachlor	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:59	
Heptachlor epoxide	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:59	
Methoxychlor	ND	5.0	1	B9G0438	07/17/2019	07/19/19 14:59	
Toxaphene	ND	50	1	B9G0438	07/17/2019	07/19/19 14:59	
Surrogate: Decachlorobiphenyl	*70.8 %*	*32 - 91*		B9G0438	07/17/2019	*07/19/19 14:59*	
Surrogate: Tetrachloro-m-xylene	*80.7 %*	*38 - 93*		B9G0438	07/17/2019	*07/19/19 14:59*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.0(
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B1-5.0

Lab ID: 1902701-03

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:10	
4,4′-DDE	**2.1**	2.0	1	B9G0438	07/17/2019	07/19/19 15:10	
4,4′-DDT	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:10	
Aldrin	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:10	
alpha-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:10	
alpha-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:10	
beta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:10	
Chlordane	ND	8.5	1	B9G0438	07/17/2019	07/19/19 15:10	
delta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:10	
Dieldrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:10	
Endosulfan I	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:10	
Endosulfan II	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:10	
Endosulfan sulfate	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:10	
Endrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:10	
Endrin aldehyde	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:10	
Endrin ketone	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:10	
gamma-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:10	
gamma-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:10	
Heptachlor	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:10	
Heptachlor epoxide	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:10	
Methoxychlor	ND	5.0	1	B9G0438	07/17/2019	07/19/19 15:10	
Toxaphene	ND	50	1	B9G0438	07/17/2019	07/19/19 15:10	
Surrogate: Decachlorobiphenyl	*46.9 %*	*32 - 91*		B9G0438	07/17/2019	*07/19/19 15:10*	
Surrogate: Tetrachloro-m-xylene	*72.4 %*	*38 - 93*		B9G0438	07/17/2019	*07/19/19 15:10*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B2-1.0

Lab ID: 1902701-04

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.3**	1.0	1	B9G0405	07/17/2019	07/18/19 12:39	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	10	5	B9G0438	07/17/2019	07/20/19 17:25	
4,4´-DDE	**110**	10	5	B9G0438	07/17/2019	07/20/19 17:25	
4,4´-DDT [2C]	**13**	10	5	B9G0438	07/17/2019	07/20/19 17:25	
Aldrin	ND	5.0	5	B9G0438	07/17/2019	07/20/19 17:25	
alpha-BHC	ND	5.0	5	B9G0438	07/17/2019	07/20/19 17:25	
alpha-Chlordane	ND	5.0	5	B9G0438	07/17/2019	07/20/19 17:25	
beta-BHC	ND	5.0	5	B9G0438	07/17/2019	07/20/19 17:25	
Chlordane	ND	42	5	B9G0438	07/17/2019	07/20/19 17:25	
delta-BHC	ND	5.0	5	B9G0438	07/17/2019	07/20/19 17:25	
Dieldrin	ND	10	5	B9G0438	07/17/2019	07/20/19 17:25	
Endosulfan I	ND	5.0	5	B9G0438	07/17/2019	07/20/19 17:25	
Endosulfan II	ND	10	5	B9G0438	07/17/2019	07/20/19 17:25	
Endosulfan sulfate	ND	10	5	B9G0438	07/17/2019	07/20/19 17:25	
Endrin	ND	10	5	B9G0438	07/17/2019	07/20/19 17:25	
Endrin aldehyde	ND	10	5	B9G0438	07/17/2019	07/20/19 17:25	
Endrin ketone	ND	10	5	B9G0438	07/17/2019	07/20/19 17:25	
gamma-BHC	ND	5.0	5	B9G0438	07/17/2019	07/20/19 17:25	
gamma-Chlordane	ND	5.0	5	B9G0438	07/17/2019	07/20/19 17:25	
Heptachlor	ND	5.0	5	B9G0438	07/17/2019	07/20/19 17:25	
Heptachlor epoxide	ND	5.0	5	B9G0438	07/17/2019	07/20/19 17:25	
Methoxychlor	ND	25	5	B9G0438	07/17/2019	07/20/19 17:25	
Toxaphene	ND	250	5	B9G0438	07/17/2019	07/20/19 17:25	
Surrogate: Decachlorobiphenyl	*75.0 %*	*32 - 91*		B9G0438	07/17/2019	*07/20/19 17:25*	
Surrogate: Tetrachloro-m-xylene	*84.1 %*	*38 - 93*		B9G0438	07/17/2019	*07/20/19 17:25*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B2-2.5
Lab ID: 1902701-05

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.3**	1.0	1	B9G0405	07/17/2019	07/18/19 12:41	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:41	
4,4´-DDE	**18**	2.0	1	B9G0438	07/17/2019	07/19/19 15:41	
4,4´-DDT [2C]	**2.1**	2.0	1	B9G0438	07/17/2019	07/19/19 15:41	
Aldrin	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:41	
alpha-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:41	
alpha-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:41	
beta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:41	
Chlordane	ND	8.5	1	B9G0438	07/17/2019	07/19/19 15:41	
delta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:41	
Dieldrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:41	
Endosulfan I	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:41	
Endosulfan II	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:41	
Endosulfan sulfate	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:41	
Endrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:41	
Endrin aldehyde	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:41	
Endrin ketone	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:41	
gamma-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:41	
gamma-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:41	
Heptachlor	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:41	
Heptachlor epoxide	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:41	
Methoxychlor	ND	5.0	1	B9G0438	07/17/2019	07/19/19 15:41	
Toxaphene	ND	50	1	B9G0438	07/17/2019	07/19/19 15:41	
Surrogate: Decachlorobiphenyl	*72.5 %*	*32 - 91*		B9G0438	07/17/2019	*07/19/19 15:41*	
Surrogate: Tetrachloro-m-xylene	*90.6 %*	*38 - 93*		B9G0438	07/17/2019	*07/19/19 15:41*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B2-5.0

Lab ID: 1902701-06

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:52	
4,4′-DDE	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:52	
4,4′-DDT	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:52	
Aldrin	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:52	
alpha-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:52	
alpha-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:52	
beta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:52	
Chlordane	ND	8.5	1	B9G0438	07/17/2019	07/19/19 15:52	
delta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:52	
Dieldrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:52	
Endosulfan I	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:52	
Endosulfan II	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:52	
Endosulfan sulfate	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:52	
Endrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:52	
Endrin aldehyde	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:52	
Endrin ketone	ND	2.0	1	B9G0438	07/17/2019	07/19/19 15:52	
gamma-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:52	
gamma-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:52	
Heptachlor	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:52	
Heptachlor epoxide	ND	1.0	1	B9G0438	07/17/2019	07/19/19 15:52	
Methoxychlor	ND	5.0	1	B9G0438	07/17/2019	07/19/19 15:52	
Toxaphene	ND	50	1	B9G0438	07/17/2019	07/19/19 15:52	
Surrogate: Decachlorobiphenyl	*64.4 %*	*32 - 91*		B9G0438	07/17/2019	*07/19/19 15:52*	
Surrogate: Tetrachloro-m-xylene	*82.3 %*	*38 - 93*		B9G0438	07/17/2019	*07/19/19 15:52*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B3-1.0

Lab ID: 1902701-07

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.8**	1.0	1	B9G0405	07/17/2019	07/18/19 12:44	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**7.3**	2.0	1	B9G0438	07/17/2019	07/19/19 16:02	
4,4´-DDE	**170**	20	10	B9G0438	07/17/2019	07/20/19 17:04	
4,4´-DDT [2C]	**14**	2.0	1	B9G0438	07/17/2019	07/19/19 16:02	
Aldrin	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:02	
alpha-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:02	
alpha-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:02	
beta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:02	
Chlordane	ND	8.5	1	B9G0438	07/17/2019	07/19/19 16:02	
delta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:02	
Dieldrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:02	
Endosulfan I	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:02	
Endosulfan II	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:02	
Endosulfan sulfate	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:02	
Endrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:02	
Endrin aldehyde	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:02	
Endrin ketone	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:02	
gamma-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:02	
gamma-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:02	
Heptachlor	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:02	
Heptachlor epoxide	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:02	
Methoxychlor	ND	5.0	1	B9G0438	07/17/2019	07/19/19 16:02	
Toxaphene	ND	50	1	B9G0438	07/17/2019	07/19/19 16:02	
Surrogate: Decachlorobiphenyl	*82.6 %*	*32 - 91*		B9G0438	07/17/2019	*07/20/19 17:04*	
Surrogate: Decachlorobiphenyl	*77.0 %*	*32 - 91*		B9G0438	07/17/2019	*07/19/19 16:02*	
Surrogate: Tetrachloro-m-xylene	*88.6 %*	*38 - 93*		B9G0438	07/17/2019	*07/19/19 16:02*	
Surrogate: Tetrachloro-m-xylene	*80.4 %*	*38 - 93*		B9G0438	07/17/2019	*07/20/19 17:04*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B3-2.5
Lab ID: 1902701-08

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.3**	1.0	1	B9G0405	07/17/2019	07/18/19 12:46	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**6.3**	2.0	1	B9G0438	07/17/2019	07/19/19 16:13	
4,4´-DDE	**160**	20	10	B9G0438	07/17/2019	07/20/19 17:15	
4,4´-DDT [2C]	**13**	2.0	1	B9G0438	07/17/2019	07/19/19 16:13	
Aldrin	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:13	
alpha-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:13	
alpha-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:13	
beta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:13	
Chlordane	ND	8.5	1	B9G0438	07/17/2019	07/19/19 16:13	
delta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:13	
Dieldrin	**2.6**	2.0	1	B9G0438	07/17/2019	07/19/19 16:13	
Endosulfan I	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:13	
Endosulfan II	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:13	
Endosulfan sulfate	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:13	
Endrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:13	
Endrin aldehyde	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:13	
Endrin ketone	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:13	
gamma-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:13	
gamma-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:13	
Heptachlor	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:13	
Heptachlor epoxide	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:13	
Methoxychlor	ND	5.0	1	B9G0438	07/17/2019	07/19/19 16:13	
Toxaphene	ND	50	1	B9G0438	07/17/2019	07/19/19 16:13	
Surrogate: Decachlorobiphenyl	*66.8 %*	*32 - 91*		B9G0438	07/17/2019	*07/19/19 16:13*	
Surrogate: Tetrachloro-m-xylene	*83.1 %*	*38 - 93*		B9G0438	07/17/2019	*07/19/19 16:13*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B3-5.0

Lab ID: 1902701-09

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:23	
4,4′-DDE	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:23	
4,4′-DDT	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:23	
Aldrin	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:23	
alpha-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:23	
alpha-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:23	
beta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:23	
Chlordane	ND	8.5	1	B9G0438	07/17/2019	07/19/19 16:23	
delta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:23	
Dieldrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:23	
Endosulfan I	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:23	
Endosulfan II	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:23	
Endosulfan sulfate	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:23	
Endrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:23	
Endrin aldehyde	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:23	
Endrin ketone	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:23	
gamma-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:23	
gamma-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:23	
Heptachlor	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:23	
Heptachlor epoxide	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:23	
Methoxychlor	ND	5.0	1	B9G0438	07/17/2019	07/19/19 16:23	
Toxaphene	ND	50	1	B9G0438	07/17/2019	07/19/19 16:23	
Surrogate: Decachlorobiphenyl	*56.4 %*	*32 - 91*		B9G0438	07/17/2019	*07/19/19 16:23*	
Surrogate: Tetrachloro-m-xylene	*75.3 %*	*38 - 93*		B9G0438	07/17/2019	*07/19/19 16:23*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B3-5.0D

Lab ID: 1902701-10

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**2.3**	2.0	1	B9G0438	07/17/2019	07/19/19 16:44	
4,4´-DDE	**23**	2.0	1	B9G0438	07/17/2019	07/19/19 16:44	
4,4´-DDT [2C]	**2.4**	2.0	1	B9G0438	07/17/2019	07/19/19 16:44	
Aldrin	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:44	
alpha-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:44	
alpha-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:44	
beta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:44	
Chlordane	ND	8.5	1	B9G0438	07/17/2019	07/19/19 16:44	
delta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:44	
Dieldrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:44	
Endosulfan I	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:44	
Endosulfan II	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:44	
Endosulfan sulfate	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:44	
Endrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:44	
Endrin aldehyde	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:44	
Endrin ketone	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:44	
gamma-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:44	
gamma-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:44	
Heptachlor	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:44	
Heptachlor epoxide	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:44	
Methoxychlor	ND	5.0	1	B9G0438	07/17/2019	07/19/19 16:44	
Toxaphene	ND	50	1	B9G0438	07/17/2019	07/19/19 16:44	
Surrogate: Decachlorobiphenyl	*64.5 %*	*32 - 91*		B9G0438	07/17/2019	*07/19/19 16:44*	
Surrogate: Tetrachloro-m-xylene	*76.2 %*	*38 - 93*		B9G0438	07/17/2019	*07/19/19 16:44*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B5-1.0

Lab ID: 1902701-11

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.0**	1.0	1	B9G0405	07/17/2019	07/18/19 12:47	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:55	
4,4′-DDE	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:55	
4,4′-DDT	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:55	
Aldrin	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:55	
alpha-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:55	
alpha-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:55	
beta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:55	
Chlordane	ND	8.5	1	B9G0438	07/17/2019	07/19/19 16:55	
delta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:55	
Dieldrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:55	
Endosulfan I	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:55	
Endosulfan II	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:55	
Endosulfan sulfate	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:55	
Endrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:55	
Endrin aldehyde	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:55	
Endrin ketone	ND	2.0	1	B9G0438	07/17/2019	07/19/19 16:55	
gamma-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:55	
gamma-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:55	
Heptachlor	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:55	
Heptachlor epoxide	ND	1.0	1	B9G0438	07/17/2019	07/19/19 16:55	
Methoxychlor	ND	5.0	1	B9G0438	07/17/2019	07/19/19 16:55	
Toxaphene	ND	50	1	B9G0438	07/17/2019	07/19/19 16:55	
Surrogate: Decachlorobiphenyl	*90.4 %*	*32 - 91*		B9G0438	07/17/2019	*07/19/19 16:55*	
Surrogate: Tetrachloro-m-xylene	*72.0 %*	*38 - 93*		B9G0438	07/17/2019	*07/19/19 16:55*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B5-2.5
Lab ID: 1902701-12

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.8**	1.0	1	B9G0405	07/17/2019	07/18/19 12:48	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:22	
4,4´-DDE	**37**	2.0	1	B9G0438	07/17/2019	07/19/19 23:22	
4,4´-DDT [2C]	**5.4**	2.0	1	B9G0438	07/17/2019	07/19/19 23:22	
Aldrin	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:22	
alpha-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:22	
alpha-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:22	
beta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:22	
Chlordane	ND	8.5	1	B9G0438	07/17/2019	07/19/19 23:22	
delta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:22	
Dieldrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:22	
Endosulfan I	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:22	
Endosulfan II	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:22	
Endosulfan sulfate	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:22	
Endrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:22	
Endrin aldehyde	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:22	
Endrin ketone	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:22	
gamma-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:22	
gamma-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:22	
Heptachlor	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:22	
Heptachlor epoxide	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:22	
Methoxychlor	ND	5.0	1	B9G0438	07/17/2019	07/19/19 23:22	
Toxaphene	ND	50	1	B9G0438	07/17/2019	07/19/19 23:22	
Surrogate: Decachlorobiphenyl	*76.7 %*	*32 - 91*		B9G0438	07/17/2019	*07/19/19 23:22*	
Surrogate: Tetrachloro-m-xylene	*87.2 %*	*38 - 93*		B9G0438	07/17/2019	*07/19/19 23:22*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B5-2.5D

Lab ID: 1902701-13

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	1	B9G0405	07/17/2019	07/18/19 12:49	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:32	
4,4´-DDE	**39**	2.0	1	B9G0438	07/17/2019	07/19/19 23:32	
4,4´-DDT [2C]	**5.9**	2.0	1	B9G0438	07/17/2019	07/19/19 23:32	
Aldrin	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:32	
alpha-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:32	
alpha-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:32	
beta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:32	
Chlordane	ND	8.5	1	B9G0438	07/17/2019	07/19/19 23:32	
delta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:32	
Dieldrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:32	
Endosulfan I	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:32	
Endosulfan II	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:32	
Endosulfan sulfate	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:32	
Endrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:32	
Endrin aldehyde	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:32	
Endrin ketone	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:32	
gamma-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:32	
gamma-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:32	
Heptachlor	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:32	
Heptachlor epoxide	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:32	
Methoxychlor	ND	5.0	1	B9G0438	07/17/2019	07/19/19 23:32	
Toxaphene	ND	50	1	B9G0438	07/17/2019	07/19/19 23:32	
Surrogate: Decachlorobiphenyl	*75.3 %*	*32 - 91*		B9G0438	07/17/2019	*07/19/19 23:32*	
Surrogate: Tetrachloro-m-xylene	*86.3 %*	*38 - 93*		B9G0438	07/17/2019	*07/19/19 23:32*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B5-5.0

Lab ID: 1902701-14

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:43	
4,4′-DDE	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:43	
4,4′-DDT	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:43	
Aldrin	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:43	
alpha-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:43	
alpha-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:43	
beta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:43	
Chlordane	ND	8.5	1	B9G0438	07/17/2019	07/19/19 23:43	
delta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:43	
Dieldrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:43	
Endosulfan I	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:43	
Endosulfan II	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:43	
Endosulfan sulfate	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:43	
Endrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:43	
Endrin aldehyde	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:43	
Endrin ketone	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:43	
gamma-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:43	
gamma-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:43	
Heptachlor	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:43	
Heptachlor epoxide	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:43	
Methoxychlor	ND	5.0	1	B9G0438	07/17/2019	07/19/19 23:43	
Toxaphene	ND	50	1	B9G0438	07/17/2019	07/19/19 23:43	
Surrogate: Decachlorobiphenyl	*66.7 %*	*32 - 91*		B9G0438	07/17/2019	*07/19/19 23:43*	
Surrogate: Tetrachloro-m-xylene	*73.5 %*	*38 - 93*		B9G0438	07/17/2019	*07/19/19 23:43*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B6-1.0

Lab ID: 1902701-15

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.8**	1.0	1	B9G0405	07/17/2019	07/18/19 12:50	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:53	
4,4´-DDE	**2.6**	2.0	1	B9G0438	07/17/2019	07/19/19 23:53	
4,4´-DDT	**2.3**	2.0	1	B9G0438	07/17/2019	07/19/19 23:53	
Aldrin	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:53	
alpha-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:53	
alpha-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:53	
beta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:53	
Chlordane	ND	8.5	1	B9G0438	07/17/2019	07/19/19 23:53	
delta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:53	
Dieldrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:53	
Endosulfan I	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:53	
Endosulfan II	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:53	
Endosulfan sulfate	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:53	
Endrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:53	
Endrin aldehyde	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:53	
Endrin ketone	ND	2.0	1	B9G0438	07/17/2019	07/19/19 23:53	
gamma-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:53	
gamma-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:53	
Heptachlor	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:53	
Heptachlor epoxide	ND	1.0	1	B9G0438	07/17/2019	07/19/19 23:53	
Methoxychlor	ND	5.0	1	B9G0438	07/17/2019	07/19/19 23:53	
Toxaphene	ND	50	1	B9G0438	07/17/2019	07/19/19 23:53	
Surrogate: Decachlorobiphenyl	*66.8 %*	*32 - 91*		B9G0438	07/17/2019	*07/19/19 23:53*	
Surrogate: Tetrachloro-m-xylene	*72.1 %*	*38 - 93*		B9G0438	07/17/2019	*07/19/19 23:53*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B6-2.5
Lab ID: 1902701-16

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.5**	1.0	1	B9G0405	07/17/2019	07/18/19 12:52	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:04	
4,4′-DDE	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:04	
4,4′-DDT [2C]	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:04	
Aldrin	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:04	
alpha-BHC	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:04	
alpha-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:04	
beta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:04	
Chlordane	ND	8.5	1	B9G0438	07/17/2019	07/20/19 00:04	
delta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:04	
Dieldrin	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:04	
Endosulfan I	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:04	
Endosulfan II	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:04	
Endosulfan sulfate	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:04	
Endrin	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:04	
Endrin aldehyde	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:04	
Endrin ketone	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:04	
gamma-BHC	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:04	
gamma-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:04	
Heptachlor	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:04	
Heptachlor epoxide	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:04	
Methoxychlor	ND	5.0	1	B9G0438	07/17/2019	07/20/19 00:04	
Toxaphene	ND	50	1	B9G0438	07/17/2019	07/20/19 00:04	
Surrogate: Decachlorobiphenyl	*65.2 %*	*32 - 91*		B9G0438	07/17/2019	*07/20/19 00:04*	
Surrogate: Tetrachloro-m-xylene	*71.8 %*	*38 - 93*		B9G0438	07/17/2019	*07/20/19 00:04*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B6-5.0

Lab ID: 1902701-17

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0438	07/17/2019	07/22/19 11:02	
4,4′-DDE	ND	2.0	1	B9G0438	07/17/2019	07/22/19 11:02	
4,4′-DDT	ND	2.0	1	B9G0438	07/17/2019	07/22/19 11:02	
Aldrin	ND	1.0	1	B9G0438	07/17/2019	07/22/19 11:02	
alpha-BHC	ND	1.0	1	B9G0438	07/17/2019	07/22/19 11:02	
alpha-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/22/19 11:02	
beta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/22/19 11:02	
Chlordane	ND	8.5	1	B9G0438	07/17/2019	07/22/19 11:02	
delta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/22/19 11:02	
Dieldrin	ND	2.0	1	B9G0438	07/17/2019	07/22/19 11:02	
Endosulfan I	ND	1.0	1	B9G0438	07/17/2019	07/22/19 11:02	
Endosulfan II	ND	2.0	1	B9G0438	07/17/2019	07/22/19 11:02	
Endosulfan sulfate	ND	2.0	1	B9G0438	07/17/2019	07/22/19 11:02	
Endrin	ND	2.0	1	B9G0438	07/17/2019	07/22/19 11:02	
Endrin aldehyde	ND	2.0	1	B9G0438	07/17/2019	07/22/19 11:02	
Endrin ketone	ND	2.0	1	B9G0438	07/17/2019	07/22/19 11:02	
gamma-BHC	ND	1.0	1	B9G0438	07/17/2019	07/22/19 11:02	
gamma-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/22/19 11:02	
Heptachlor	ND	1.0	1	B9G0438	07/17/2019	07/22/19 11:02	
Heptachlor epoxide	ND	1.0	1	B9G0438	07/17/2019	07/22/19 11:02	
Methoxychlor	ND	5.0	1	B9G0438	07/17/2019	07/22/19 11:02	
Toxaphene	ND	50	1	B9G0438	07/17/2019	07/22/19 11:02	
Surrogate: Decachlorobiphenyl	*77.1 %*	*32 - 91*		B9G0438	07/17/2019	*07/22/19 11:02*	
Surrogate: Tetrachloro-m-xylene	*62.7 %*	*38 - 93*		B9G0438	07/17/2019	*07/22/19 11:02*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.0(
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B7-GW

Lab ID: 1902701-18

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
1,1,1-Trichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
1,1,2-Trichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
1,1-Dichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
1,1-Dichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
1,1-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
1,2,3-Trichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
1,2,3-Trichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
1,2,4-Trichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
1,2,4-Trimethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
1,2-Dibromoethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
1,2-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
1,2-Dichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
1,2-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
1,3,5-Trimethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
1,3-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
1,3-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
1,4-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
2,2-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
2-Chlorotoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
4-Chlorotoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
4-Isopropyltoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Benzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Bromobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Bromochloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Bromodichloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Bromoform	**16**	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Bromomethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Carbon disulfide	ND	1.0	1	B9G0409	07/17/2019	07/17/19 13:04	
Carbon tetrachloride	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Chlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Chloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Chloroform	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Chloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
cis-1,2-Dichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B7-GW
Lab ID: 1902701-18

Volatile Organic Compounds by EPA 8260B — **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Di-isopropyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Dibromochloromethane	**6.2**	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Dibromomethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Dichlorodifluoromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Ethyl Acetate	ND	10	1	B9G0409	07/17/2019	07/17/19 13:04	
Ethyl Ether	ND	10	1	B9G0409	07/17/2019	07/17/19 13:04	
Ethyl tert-butyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Ethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Freon-113	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Hexachlorobutadiene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Isopropylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
m,p-Xylene	ND	1.0	1	B9G0409	07/17/2019	07/17/19 13:04	
Methylene chloride	ND	1.0	1	B9G0409	07/17/2019	07/17/19 13:04	
MTBE	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
n-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
n-Propylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Naphthalene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
o-Xylene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
sec-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Styrene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
tert-Amyl methyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
tert-Butanol	ND	10	1	B9G0409	07/17/2019	07/17/19 13:04	
tert-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Tetrachloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Toluene	**0.51**	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
trans-1,2-Dichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
trans-1,3-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Trichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Trichlorofluoromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Vinyl acetate	ND	10	1	B9G0409	07/17/2019	07/17/19 13:04	
Vinyl chloride	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:04	
Surrogate: 1,2-Dichloroethane-d4	*109 %*	*57 - 152*		B9G0409	07/17/2019	*07/17/19 13:04*	
Surrogate: 4-Bromofluorobenzene	*100 %*	*62 - 134*		B9G0409	07/17/2019	*07/17/19 13:04*	
Surrogate: Dibromofluoromethane	*99.6 %*	*56 - 167*		B9G0409	07/17/2019	*07/17/19 13:04*	
Surrogate: Toluene-d8	*102 %*	*33 - 170*		B9G0409	07/17/2019	*07/17/19 13:04*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B8-1.0

Lab ID: 1902701-19

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.1**	1.0	1	B9G0405	07/17/2019	07/18/19 12:53	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:25	
4,4′-DDE	**7.8**	2.0	1	B9G0438	07/17/2019	07/20/19 00:25	
4,4′-DDT	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:25	
Aldrin	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:25	
alpha-BHC	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:25	
alpha-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:25	
beta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:25	
Chlordane	ND	8.5	1	B9G0438	07/17/2019	07/20/19 00:25	
delta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:25	
Dieldrin	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:25	
Endosulfan I	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:25	
Endosulfan II	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:25	
Endosulfan sulfate	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:25	
Endrin	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:25	
Endrin aldehyde	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:25	
Endrin ketone	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:25	
gamma-BHC	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:25	
gamma-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:25	
Heptachlor	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:25	
Heptachlor epoxide	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:25	
Methoxychlor	ND	5.0	1	B9G0438	07/17/2019	07/20/19 00:25	
Toxaphene	ND	50	1	B9G0438	07/17/2019	07/20/19 00:25	
Surrogate: Decachlorobiphenyl	*67.9 %*	*32 - 91*		B9G0438	07/17/2019	*07/20/19 00:25*	
Surrogate: Tetrachloro-m-xylene	*77.2 %*	*38 - 93*		B9G0438	07/17/2019	*07/20/19 00:25*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B8-2.5
Lab ID: 1902701-20

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.6**	1.0	1	B9G0405	07/17/2019	07/18/19 12:54	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:17	
4,4′-DDE	**2.1**	2.0	1	B9G0438	07/17/2019	07/19/19 14:17	
4,4′-DDT	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:17	
Aldrin	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:17	
alpha-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:17	
alpha-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:17	
beta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:17	
Chlordane	ND	8.5	1	B9G0438	07/17/2019	07/19/19 14:17	
delta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:17	
Dieldrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:17	
Endosulfan I	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:17	
Endosulfan II	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:17	
Endosulfan sulfate	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:17	
Endrin	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:17	
Endrin aldehyde	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:17	
Endrin ketone	ND	2.0	1	B9G0438	07/17/2019	07/19/19 14:17	
gamma-BHC	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:17	
gamma-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:17	
Heptachlor	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:17	
Heptachlor epoxide	ND	1.0	1	B9G0438	07/17/2019	07/19/19 14:17	
Methoxychlor	ND	5.0	1	B9G0438	07/17/2019	07/19/19 14:17	
Toxaphene	ND	50	1	B9G0438	07/17/2019	07/19/19 14:17	
Surrogate: Decachlorobiphenyl	*74.1 %*	*32 - 91*		B9G0438	07/17/2019	*07/19/19 14:17*	
Surrogate: Tetrachloro-m-xylene	*78.8 %*	*38 - 93*		B9G0438	07/17/2019	*07/19/19 14:17*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B8-5.0

Lab ID: 1902701-21

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:35	
4,4′-DDE	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:35	
4,4′-DDT	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:35	
Aldrin	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:35	
alpha-BHC	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:35	
alpha-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:35	
beta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:35	
Chlordane	ND	8.5	1	B9G0438	07/17/2019	07/20/19 00:35	
delta-BHC	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:35	
Dieldrin	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:35	
Endosulfan I	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:35	
Endosulfan II	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:35	
Endosulfan sulfate	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:35	
Endrin	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:35	
Endrin aldehyde	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:35	
Endrin ketone	ND	2.0	1	B9G0438	07/17/2019	07/20/19 00:35	
gamma-BHC	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:35	
gamma-Chlordane	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:35	
Heptachlor	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:35	
Heptachlor epoxide	ND	1.0	1	B9G0438	07/17/2019	07/20/19 00:35	
Methoxychlor	ND	5.0	1	B9G0438	07/17/2019	07/20/19 00:35	
Toxaphene	ND	50	1	B9G0438	07/17/2019	07/20/19 00:35	
Surrogate: Decachlorobiphenyl	*33.1 %*	*32 - 91*		B9G0438	07/17/2019	*07/20/19 00:35*	
Surrogate: Tetrachloro-m-xylene	*52.7 %*	*38 - 93*		B9G0438	07/17/2019	*07/20/19 00:35*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B9-1.0

Lab ID: 1902701-22

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.2**	1.0	1	B9G0405	07/17/2019	07/18/19 12:55	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0439	07/17/2019	07/22/19 10:51	
4,4′-DDE	**5.4**	2.0	1	B9G0439	07/17/2019	07/22/19 10:51	
4,4′-DDT	ND	2.0	1	B9G0439	07/17/2019	07/22/19 10:51	
Aldrin	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:51	
alpha-BHC	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:51	
alpha-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:51	
beta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:51	
Chlordane	ND	8.5	1	B9G0439	07/17/2019	07/22/19 10:51	
delta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:51	
Dieldrin	ND	2.0	1	B9G0439	07/17/2019	07/22/19 10:51	
Endosulfan I	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:51	
Endosulfan II	ND	2.0	1	B9G0439	07/17/2019	07/22/19 10:51	
Endosulfan sulfate	ND	2.0	1	B9G0439	07/17/2019	07/22/19 10:51	
Endrin	ND	2.0	1	B9G0439	07/17/2019	07/22/19 10:51	
Endrin aldehyde	ND	2.0	1	B9G0439	07/17/2019	07/22/19 10:51	
Endrin ketone	ND	2.0	1	B9G0439	07/17/2019	07/22/19 10:51	
gamma-BHC	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:51	
gamma-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:51	
Heptachlor	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:51	
Heptachlor epoxide	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:51	
Methoxychlor	ND	5.0	1	B9G0439	07/17/2019	07/22/19 10:51	
Toxaphene	ND	50	1	B9G0439	07/17/2019	07/22/19 10:51	
Surrogate: Decachlorobiphenyl	*349 %*	*32 - 91*		B9G0439	07/17/2019	*07/22/19 10:51*	S10
Surrogate: Tetrachloro-m-xylene	*59.5 %*	*38 - 93*		B9G0439	07/17/2019	*07/22/19 10:51*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B9-2.5
Lab ID: 1902701-23

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.9**	1.0	1	B9G0405	07/17/2019	07/18/19 12:59	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:27	
4,4´-DDE	**41**	2.0	1	B9G0439	07/17/2019	07/20/19 01:27	
4,4´-DDT	**6.3**	2.0	1	B9G0439	07/17/2019	07/20/19 01:27	
Aldrin	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:27	
alpha-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:27	
alpha-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:27	
beta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:27	
Chlordane	ND	8.5	1	B9G0439	07/17/2019	07/20/19 01:27	
delta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:27	
Dieldrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:27	
Endosulfan I	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:27	
Endosulfan II	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:27	
Endosulfan sulfate	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:27	
Endrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:27	
Endrin aldehyde	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:27	
Endrin ketone	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:27	
gamma-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:27	
gamma-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:27	
Heptachlor	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:27	
Heptachlor epoxide	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:27	
Methoxychlor	ND	5.0	1	B9G0439	07/17/2019	07/20/19 01:27	
Toxaphene	ND	50	1	B9G0439	07/17/2019	07/20/19 01:27	
Surrogate: Decachlorobiphenyl	*81.5 %*	*32 - 91*		B9G0439	07/17/2019	*07/20/19 01:27*	
Surrogate: Tetrachloro-m-xylene	*70.1 %*	*38 - 93*		B9G0439	07/17/2019	*07/20/19 01:27*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B9-5.0

Lab ID: 1902701-24

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:38	
4,4′-DDE [2C]	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:38	
4,4′-DDT	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:38	
Aldrin	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:38	
alpha-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:38	
alpha-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:38	
beta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:38	
Chlordane	ND	8.5	1	B9G0439	07/17/2019	07/20/19 01:38	
delta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:38	
Dieldrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:38	
Endosulfan I	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:38	
Endosulfan II	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:38	
Endosulfan sulfate	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:38	
Endrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:38	
Endrin aldehyde	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:38	
Endrin ketone	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:38	
gamma-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:38	
gamma-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:38	
Heptachlor	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:38	
Heptachlor epoxide	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:38	
Methoxychlor	ND	5.0	1	B9G0439	07/17/2019	07/20/19 01:38	
Toxaphene	ND	50	1	B9G0439	07/17/2019	07/20/19 01:38	
Surrogate: Decachlorobiphenyl	*67.5 %*	*32 - 91*		B9G0439	07/17/2019	*07/20/19 01:38*	
Surrogate: Tetrachloro-m-xylene	*76.4 %*	*38 - 93*		B9G0439	07/17/2019	*07/20/19 01:38*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B10-1.0

Lab ID: 1902701-25

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	1	B9G0405	07/17/2019	07/18/19 13:00	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:48	
4,4′-DDE	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:48	
4,4′-DDT	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:48	
Aldrin	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:48	
alpha-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:48	
alpha-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:48	
beta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:48	
Chlordane	ND	8.5	1	B9G0439	07/17/2019	07/20/19 01:48	
delta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:48	
Dieldrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:48	
Endosulfan I	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:48	
Endosulfan II	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:48	
Endosulfan sulfate	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:48	
Endrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:48	
Endrin aldehyde	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:48	
Endrin ketone	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:48	
gamma-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:48	
gamma-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:48	
Heptachlor	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:48	
Heptachlor epoxide	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:48	
Methoxychlor	ND	5.0	1	B9G0439	07/17/2019	07/20/19 01:48	
Toxaphene	ND	50	1	B9G0439	07/17/2019	07/20/19 01:48	
Surrogate: Decachlorobiphenyl	*66.5 %*	*32 - 91*		B9G0439	07/17/2019	*07/20/19 01:48*	
Surrogate: Tetrachloro-m-xylene	*78.3 %*	*38 - 93*		B9G0439	07/17/2019	*07/20/19 01:48*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B10-1.0D
Lab ID: 1902701-26

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.1**	1.0	1	B9G0406	07/17/2019	07/18/19 13:20	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:59	
4,4′-DDE	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:59	
4,4′-DDT	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:59	
Aldrin	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:59	
alpha-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:59	
alpha-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:59	
beta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:59	
Chlordane	ND	8.5	1	B9G0439	07/17/2019	07/20/19 01:59	
delta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:59	
Dieldrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:59	
Endosulfan I	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:59	
Endosulfan II	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:59	
Endosulfan sulfate	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:59	
Endrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:59	
Endrin aldehyde	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:59	
Endrin ketone	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:59	
gamma-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:59	
gamma-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:59	
Heptachlor	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:59	
Heptachlor epoxide	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:59	
Methoxychlor	ND	5.0	1	B9G0439	07/17/2019	07/20/19 01:59	
Toxaphene	ND	50	1	B9G0439	07/17/2019	07/20/19 01:59	
Surrogate: Decachlorobiphenyl	*73.4 %*	*32 - 91*		B9G0439	07/17/2019	*07/20/19 01:59*	
Surrogate: Tetrachloro-m-xylene	*77.7 %*	*38 - 93*		B9G0439	07/17/2019	*07/20/19 01:59*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B10-2.5

Lab ID: 1902701-27

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	1	B9G0406	07/17/2019	07/18/19 13:21	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:06	
4,4´-DDE	**2.3**	2.0	1	B9G0439	07/17/2019	07/20/19 01:06	
4,4´-DDT	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:06	
Aldrin	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:06	
alpha-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:06	
alpha-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:06	
beta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:06	
Chlordane	ND	8.5	1	B9G0439	07/17/2019	07/20/19 01:06	
delta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:06	
Dieldrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:06	
Endosulfan I	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:06	
Endosulfan II	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:06	
Endosulfan sulfate	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:06	
Endrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:06	
Endrin aldehyde	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:06	
Endrin ketone	ND	2.0	1	B9G0439	07/17/2019	07/20/19 01:06	
gamma-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:06	
gamma-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:06	
Heptachlor	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:06	
Heptachlor epoxide	ND	1.0	1	B9G0439	07/17/2019	07/20/19 01:06	
Methoxychlor	ND	5.0	1	B9G0439	07/17/2019	07/20/19 01:06	
Toxaphene	ND	50	1	B9G0439	07/17/2019	07/20/19 01:06	
Surrogate: Decachlorobiphenyl	*68.7 %*	*32 - 91*		B9G0439	07/17/2019	*07/20/19 01:06*	
Surrogate: Tetrachloro-m-xylene	*77.1 %*	*38 - 93*		B9G0439	07/17/2019	*07/20/19 01:06*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B10-5.0

Lab ID: 1902701-28

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0439	07/17/2019	07/20/19 19:31	
4,4′-DDE	ND	2.0	1	B9G0439	07/17/2019	07/20/19 19:31	
4,4′-DDT	ND	2.0	1	B9G0439	07/17/2019	07/20/19 19:31	
Aldrin	ND	1.0	1	B9G0439	07/17/2019	07/20/19 19:31	
alpha-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 19:31	
alpha-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 19:31	
beta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 19:31	
Chlordane	ND	8.5	1	B9G0439	07/17/2019	07/20/19 19:31	
delta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 19:31	
Dieldrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 19:31	
Endosulfan I	ND	1.0	1	B9G0439	07/17/2019	07/20/19 19:31	
Endosulfan II	ND	2.0	1	B9G0439	07/17/2019	07/20/19 19:31	
Endosulfan sulfate	ND	2.0	1	B9G0439	07/17/2019	07/20/19 19:31	
Endrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 19:31	
Endrin aldehyde	ND	2.0	1	B9G0439	07/17/2019	07/20/19 19:31	
Endrin ketone	ND	2.0	1	B9G0439	07/17/2019	07/20/19 19:31	
gamma-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 19:31	
gamma-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 19:31	
Heptachlor	ND	1.0	1	B9G0439	07/17/2019	07/20/19 19:31	
Heptachlor epoxide	ND	1.0	1	B9G0439	07/17/2019	07/20/19 19:31	
Methoxychlor	ND	5.0	1	B9G0439	07/17/2019	07/20/19 19:31	
Toxaphene	ND	50	1	B9G0439	07/17/2019	07/20/19 19:31	
Surrogate: Decachlorobiphenyl	*37.5 %*	*32 - 91*		B9G0439	07/17/2019	*07/20/19 19:31*	
Surrogate: Tetrachloro-m-xylene	*59.9 %*	*38 - 93*		B9G0439	07/17/2019	*07/20/19 19:31*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B10-5.0

Lab ID: 1902701-28

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
1,1,1-Trichloroethane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
1,1,2,2-Tetrachloroethane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
1,1,2-Trichloroethane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
1,1-Dichloroethane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
1,1-Dichloroethene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
1,1-Dichloropropene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
1,2,3-Trichloropropane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
1,2,3-Trichlorobenzene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
1,2,4-Trichlorobenzene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
1,2,4-Trimethylbenzene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
1,2-Dibromo-3-chloropropane	ND	9.3	1	B9G0400	07/17/2019	07/17/19 15:17	
1,2-Dibromoethane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
1,2-Dichlorobenzene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
1,2-Dichloroethane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
1,2-Dichloropropane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
1,3,5-Trimethylbenzene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
1,3-Dichlorobenzene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
1,3-Dichloropropane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
1,4-Dichlorobenzene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
2,2-Dichloropropane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
2-Chlorotoluene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
4-Chlorotoluene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
4-Isopropyltoluene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Benzene	**82**	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Bromobenzene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Bromochloromethane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Bromodichloromethane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Bromoform	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Bromomethane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Carbon disulfide	**11**	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Carbon tetrachloride	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Chlorobenzene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Chloroethane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Chloroform	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Chloromethane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
cis-1,2-Dichloroethene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B10-5.0

Lab ID: 1902701-28

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Di-isopropyl ether	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Dibromochloromethane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Dibromomethane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Dichlorodifluoromethane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Ethyl Acetate	ND	47	1	B9G0400	07/17/2019	07/17/19 15:17	
Ethyl Ether	ND	47	1	B9G0400	07/17/2019	07/17/19 15:17	
Ethyl tert-butyl ether	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Ethylbenzene	**5.7**	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Freon-113	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Hexachlorobutadiene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Isopropylbenzene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
m,p-Xylene	ND	9.3	1	B9G0400	07/17/2019	07/17/19 15:17	
Methylene chloride	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
MTBE	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
n-Butylbenzene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
n-Propylbenzene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Naphthalene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
o-Xylene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
sec-Butylbenzene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Styrene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
tert-Amyl methyl ether	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
tert-Butanol	ND	93	1	B9G0400	07/17/2019	07/17/19 15:17	
tert-Butylbenzene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Tetrachloroethene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Toluene	**47**	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
trans-1,2-Dichloroethene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
trans-1,3-Dichloropropene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Trichloroethene	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Trichlorofluoromethane	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Vinyl acetate	ND	47	1	B9G0400	07/17/2019	07/17/19 15:17	
Vinyl chloride	ND	4.7	1	B9G0400	07/17/2019	07/17/19 15:17	
Surrogate: 1,2-Dichloroethane-d4	*118 %*	*60 - 145*		B9G0400	07/17/2019	*07/17/19 15:17*	
Surrogate: 4-Bromofluorobenzene	*99.6 %*	*68 - 121*		B9G0400	07/17/2019	*07/17/19 15:17*	
Surrogate: Dibromofluoromethane	*110 %*	*65 - 137*		B9G0400	07/17/2019	*07/17/19 15:17*	
Surrogate: Toluene-d8	*98.8 %*	*82 - 119*		B9G0400	07/17/2019	*07/17/19 15:17*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B10-10.0

Lab ID: 1902701-29

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
1,1,1-Trichloroethane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
1,1,2,2-Tetrachloroethane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
1,1,2-Trichloroethane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
1,1-Dichloroethane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
1,1-Dichloroethene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
1,1-Dichloropropene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
1,2,3-Trichloropropane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
1,2,3-Trichlorobenzene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
1,2,4-Trichlorobenzene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
1,2,4-Trimethylbenzene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
1,2-Dibromo-3-chloropropane	ND	8.6	1	B9G0400	07/17/2019	07/17/19 15:35	
1,2-Dibromoethane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
1,2-Dichlorobenzene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
1,2-Dichloroethane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
1,2-Dichloropropane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
1,3,5-Trimethylbenzene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
1,3-Dichlorobenzene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
1,3-Dichloropropane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
1,4-Dichlorobenzene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
2,2-Dichloropropane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
2-Chlorotoluene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
4-Chlorotoluene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
4-Isopropyltoluene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Benzene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Bromobenzene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Bromochloromethane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Bromodichloromethane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Bromoform	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Bromomethane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Carbon disulfide	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Carbon tetrachloride	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Chlorobenzene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Chloroethane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Chloroform	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Chloromethane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
cis-1,2-Dichloroethene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B10-10.0

Lab ID: 1902701-29

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Di-isopropyl ether	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Dibromochloromethane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Dibromomethane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Dichlorodifluoromethane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Ethyl Acetate	ND	43	1	B9G0400	07/17/2019	07/17/19 15:35	
Ethyl Ether	ND	43	1	B9G0400	07/17/2019	07/17/19 15:35	
Ethyl tert-butyl ether	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Ethylbenzene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Freon-113	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Hexachlorobutadiene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Isopropylbenzene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
m,p-Xylene	ND	8.6	1	B9G0400	07/17/2019	07/17/19 15:35	
Methylene chloride	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
MTBE	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
n-Butylbenzene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
n-Propylbenzene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Naphthalene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
o-Xylene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
sec-Butylbenzene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Styrene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
tert-Amyl methyl ether	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
tert-Butanol	ND	86	1	B9G0400	07/17/2019	07/17/19 15:35	
tert-Butylbenzene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Tetrachloroethene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Toluene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
trans-1,2-Dichloroethene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
trans-1,3-Dichloropropene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Trichloroethene	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Trichlorofluoromethane	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Vinyl acetate	ND	43	1	B9G0400	07/17/2019	07/17/19 15:35	
Vinyl chloride	ND	4.3	1	B9G0400	07/17/2019	07/17/19 15:35	
Surrogate: 1,2-Dichloroethane-d4	*114 %*	*60 - 145*		B9G0400	07/17/2019	*07/17/19 15:35*	
Surrogate: 4-Bromofluorobenzene	*98.1 %*	*68 - 121*		B9G0400	07/17/2019	*07/17/19 15:35*	
Surrogate: Dibromofluoromethane	*106 %*	*65 - 137*		B9G0400	07/17/2019	*07/17/19 15:35*	
Surrogate: Toluene-d8	*97.6 %*	*82 - 119*		B9G0400	07/17/2019	*07/17/19 15:35*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B10-GW

Lab ID: 1902701-30

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
1,1,1-Trichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
1,1,2-Trichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
1,1-Dichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
1,1-Dichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
1,1-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
1,2,3-Trichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
1,2,3-Trichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
1,2,4-Trichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
1,2,4-Trimethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
1,2-Dibromoethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
1,2-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
1,2-Dichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
1,2-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
1,3,5-Trimethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
1,3-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
1,3-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
1,4-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
2,2-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
2-Chlorotoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
4-Chlorotoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
4-Isopropyltoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Benzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Bromobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Bromochloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Bromodichloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Bromoform	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Bromomethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Carbon disulfide	ND	1.0	1	B9G0409	07/17/2019	07/17/19 13:27	
Carbon tetrachloride	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Chlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Chloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Chloroform	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Chloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
cis-1,2-Dichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B10-GW

Lab ID: 1902701-30

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Di-isopropyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Dibromochloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Dibromomethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Dichlorodifluoromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Ethyl Acetate	ND	10	1	B9G0409	07/17/2019	07/17/19 13:27	
Ethyl Ether	ND	10	1	B9G0409	07/17/2019	07/17/19 13:27	
Ethyl tert-butyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Ethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Freon-113	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Hexachlorobutadiene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Isopropylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
m,p-Xylene	ND	1.0	1	B9G0409	07/17/2019	07/17/19 13:27	
Methylene chloride	ND	1.0	1	B9G0409	07/17/2019	07/17/19 13:27	
MTBE	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
n-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
n-Propylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Naphthalene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
o-Xylene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
sec-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Styrene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
tert-Amyl methyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
tert-Butanol	ND	10	1	B9G0409	07/17/2019	07/17/19 13:27	
tert-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Tetrachloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Toluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
trans-1,2-Dichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
trans-1,3-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Trichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Trichlorofluoromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Vinyl acetate	ND	10	1	B9G0409	07/17/2019	07/17/19 13:27	
Vinyl chloride	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:27	
Surrogate: 1,2-Dichloroethane-d4	*109 %*	*57 - 152*		B9G0409	07/17/2019	*07/17/19 13:27*	
Surrogate: 4-Bromofluorobenzene	*99.9 %*	*62 - 134*		B9G0409	07/17/2019	*07/17/19 13:27*	
Surrogate: Dibromofluoromethane	*96.8 %*	*56 - 167*		B9G0409	07/17/2019	*07/17/19 13:27*	
Surrogate: Toluene-d8	*105 %*	*33 - 170*		B9G0409	07/17/2019	*07/17/19 13:27*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B11-1.0

Lab ID: 1902701-31

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.9**	1.0	1	B9G0406	07/17/2019	07/18/19 13:22	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:19	
4,4´-DDE	**140**	20	10	B9G0439	07/17/2019	07/22/19 10:30	
4,4´-DDT [2C]	**11**	2.0	1	B9G0439	07/17/2019	07/20/19 02:19	
Aldrin	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:19	
alpha-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:19	
alpha-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:19	
beta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:19	
Chlordane	ND	8.5	1	B9G0439	07/17/2019	07/20/19 02:19	
delta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:19	
Dieldrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:19	
Endosulfan I	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:19	
Endosulfan II	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:19	
Endosulfan sulfate	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:19	
Endrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:19	
Endrin aldehyde	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:19	
Endrin ketone	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:19	
gamma-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:19	
gamma-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:19	
Heptachlor	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:19	
Heptachlor epoxide	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:19	
Methoxychlor	ND	5.0	1	B9G0439	07/17/2019	07/20/19 02:19	
Toxaphene	ND	50	1	B9G0439	07/17/2019	07/20/19 02:19	
Surrogate: Decachlorobiphenyl	*159 %*	*32 - 91*		B9G0439	07/17/2019	*07/20/19 02:19*	S10
Surrogate: Tetrachloro-m-xylene	*71.7 %*	*38 - 93*		B9G0439	07/17/2019	*07/20/19 02:19*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B11-2.5

Lab ID: 1902701-32

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**3.4**	1.0	1	B9G0406	07/17/2019	07/18/19 13:23	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	**24**	2.0	1	B9G0439	07/17/2019	07/20/19 02:30	
4,4´-DDE	**510**	20	10	B9G0439	07/17/2019	07/22/19 10:41	
4,4´-DDT [2C]	**52**	2.0	1	B9G0439	07/17/2019	07/20/19 02:30	
Aldrin	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:30	
alpha-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:30	
alpha-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:30	
beta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:30	
Chlordane	ND	8.5	1	B9G0439	07/17/2019	07/20/19 02:30	
delta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:30	
Dieldrin	**5.4**	2.0	1	B9G0439	07/17/2019	07/20/19 02:30	
Endosulfan I	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:30	
Endosulfan II	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:30	
Endosulfan sulfate	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:30	
Endrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:30	
Endrin aldehyde	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:30	
Endrin ketone	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:30	
gamma-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:30	
gamma-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:30	
Heptachlor	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:30	
Heptachlor epoxide	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:30	
Methoxychlor	ND	5.0	1	B9G0439	07/17/2019	07/20/19 02:30	
Toxaphene	ND	50	1	B9G0439	07/17/2019	07/20/19 02:30	
Surrogate: Decachlorobiphenyl	*88.7 %*	*32 - 91*		B9G0439	07/17/2019	*07/22/19 10:41*	
Surrogate: Decachlorobiphenyl	*79.3 %*	*32 - 91*		B9G0439	07/17/2019	*07/20/19 02:30*	
Surrogate: Tetrachloro-m-xylene	*81.7 %*	*38 - 93*		B9G0439	07/17/2019	*07/20/19 02:30*	
Surrogate: Tetrachloro-m-xylene	*87.0 %*	*38 - 93*		B9G0439	07/17/2019	*07/22/19 10:41*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B11-5.0

Lab ID: 1902701-33

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:40	
4,4′-DDE	**16**	2.0	1	B9G0439	07/17/2019	07/20/19 02:40	
4,4′-DDT	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:40	
Aldrin	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:40	
alpha-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:40	
alpha-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:40	
beta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:40	
Chlordane	ND	8.5	1	B9G0439	07/17/2019	07/20/19 02:40	
delta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:40	
Dieldrin [2C]	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:40	
Endosulfan I	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:40	
Endosulfan II	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:40	
Endosulfan sulfate	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:40	
Endrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:40	
Endrin aldehyde	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:40	
Endrin ketone	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:40	
gamma-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:40	
gamma-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:40	
Heptachlor	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:40	
Heptachlor epoxide	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:40	
Methoxychlor	ND	5.0	1	B9G0439	07/17/2019	07/20/19 02:40	
Toxaphene	ND	50	1	B9G0439	07/17/2019	07/20/19 02:40	
Surrogate: Decachlorobiphenyl	*64.7 %*	*32 - 91*		B9G0439	07/17/2019	*07/20/19 02:40*	
Surrogate: Tetrachloro-m-xylene	*84.0 %*	*38 - 93*		B9G0439	07/17/2019	*07/20/19 02:40*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B11-GW

Lab ID: 1902701-34

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
1,1,1-Trichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
1,1,2-Trichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
1,1-Dichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
1,1-Dichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
1,1-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
1,2,3-Trichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
1,2,3-Trichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
1,2,4-Trichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
1,2,4-Trimethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
1,2-Dibromoethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
1,2-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
1,2-Dichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
1,2-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
1,3,5-Trimethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
1,3-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
1,3-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
1,4-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
2,2-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
2-Chlorotoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
4-Chlorotoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
4-Isopropyltoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Benzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Bromobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Bromochloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Bromodichloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Bromoform	**1.6**	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Bromomethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Carbon disulfide	ND	1.0	1	B9G0409	07/17/2019	07/17/19 13:49	
Carbon tetrachloride	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Chlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Chloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Chloroform	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Chloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
cis-1,2-Dichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B11-GW

Lab ID: 1902701-34

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Di-isopropyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Dibromochloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Dibromomethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Dichlorodifluoromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Ethyl Acetate	ND	10	1	B9G0409	07/17/2019	07/17/19 13:49	
Ethyl Ether	ND	10	1	B9G0409	07/17/2019	07/17/19 13:49	
Ethyl tert-butyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Ethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Freon-113	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Hexachlorobutadiene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Isopropylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
m,p-Xylene	ND	1.0	1	B9G0409	07/17/2019	07/17/19 13:49	
Methylene chloride	ND	1.0	1	B9G0409	07/17/2019	07/17/19 13:49	
MTBE	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
n-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
n-Propylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Naphthalene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
o-Xylene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
sec-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Styrene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
tert-Amyl methyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
tert-Butanol	ND	10	1	B9G0409	07/17/2019	07/17/19 13:49	
tert-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Tetrachloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Toluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
trans-1,2-Dichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
trans-1,3-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Trichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Trichlorofluoromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Vinyl acetate	ND	10	1	B9G0409	07/17/2019	07/17/19 13:49	
Vinyl chloride	ND	0.50	1	B9G0409	07/17/2019	07/17/19 13:49	
Surrogate: 1,2-Dichloroethane-d4	*105 %*	*57 - 152*		B9G0409	07/17/2019	*07/17/19 13:49*	
Surrogate: 4-Bromofluorobenzene	*98.1 %*	*62 - 134*		B9G0409	07/17/2019	*07/17/19 13:49*	
Surrogate: Dibromofluoromethane	*94.7 %*	*56 - 167*		B9G0409	07/17/2019	*07/17/19 13:49*	
Surrogate: Toluene-d8	*103 %*	*33 - 170*		B9G0409	07/17/2019	*07/17/19 13:49*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B13-1.0

Lab ID: 1902701-35

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.8**	1.0	1	B9G0406	07/17/2019	07/18/19 13:27	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD [2C]	**2.3**	2.0	1	B9G0439	07/17/2019	07/20/19 02:51	
4,4´-DDE	**38**	2.0	1	B9G0439	07/17/2019	07/20/19 02:51	
4,4´-DDT [2C]	**2.4**	2.0	1	B9G0439	07/17/2019	07/20/19 02:51	
Aldrin	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:51	
alpha-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:51	
alpha-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:51	
beta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:51	
Chlordane	ND	8.5	1	B9G0439	07/17/2019	07/20/19 02:51	
delta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:51	
Dieldrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:51	
Endosulfan I	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:51	
Endosulfan II	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:51	
Endosulfan sulfate	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:51	
Endrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:51	
Endrin aldehyde	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:51	
Endrin ketone	ND	2.0	1	B9G0439	07/17/2019	07/20/19 02:51	
gamma-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:51	
gamma-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:51	
Heptachlor	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:51	
Heptachlor epoxide	ND	1.0	1	B9G0439	07/17/2019	07/20/19 02:51	
Methoxychlor	ND	5.0	1	B9G0439	07/17/2019	07/20/19 02:51	
Toxaphene	ND	50	1	B9G0439	07/17/2019	07/20/19 02:51	
Surrogate: Decachlorobiphenyl	*50.2 %*	*32 - 91*		B9G0439	07/17/2019	*07/20/19 02:51*	
Surrogate: Tetrachloro-m-xylene	*76.6 %*	*38 - 93*		B9G0439	07/17/2019	*07/20/19 02:51*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B13-1.0

Lab ID: 1902701-35

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
1,1,1-Trichloroethane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
1,1,2,2-Tetrachloroethane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
1,1,2-Trichloroethane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
1,1-Dichloroethane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
1,1-Dichloroethene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
1,1-Dichloropropene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
1,2,3-Trichloropropane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
1,2,3-Trichlorobenzene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
1,2,4-Trichlorobenzene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
1,2,4-Trimethylbenzene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
1,2-Dibromo-3-chloropropane	ND	8.0	1	B9G0400	07/17/2019	07/17/19 15:54	
1,2-Dibromoethane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
1,2-Dichlorobenzene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
1,2-Dichloroethane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
1,2-Dichloropropane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
1,3,5-Trimethylbenzene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
1,3-Dichlorobenzene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
1,3-Dichloropropane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
1,4-Dichlorobenzene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
2,2-Dichloropropane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
2-Chlorotoluene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
4-Chlorotoluene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
4-Isopropyltoluene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Benzene	**6.3**	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Bromobenzene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Bromochloromethane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Bromodichloromethane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Bromoform	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Bromomethane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Carbon disulfide	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Carbon tetrachloride	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Chlorobenzene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Chloroethane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Chloroform	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Chloromethane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
cis-1,2-Dichloroethene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B13-1.0

Lab ID: 1902701-35

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Di-isopropyl ether	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Dibromochloromethane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Dibromomethane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Dichlorodifluoromethane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Ethyl Acetate	ND	40	1	B9G0400	07/17/2019	07/17/19 15:54	
Ethyl Ether	ND	40	1	B9G0400	07/17/2019	07/17/19 15:54	
Ethyl tert-butyl ether	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Ethylbenzene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Freon-113	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Hexachlorobutadiene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Isopropylbenzene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
m,p-Xylene	ND	8.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Methylene chloride	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
MTBE	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
n-Butylbenzene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
n-Propylbenzene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Naphthalene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
o-Xylene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
sec-Butylbenzene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Styrene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
tert-Amyl methyl ether	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
tert-Butanol	ND	80	1	B9G0400	07/17/2019	07/17/19 15:54	
tert-Butylbenzene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Tetrachloroethene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Toluene	**4.3**	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
trans-1,2-Dichloroethene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
trans-1,3-Dichloropropene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Trichloroethene	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Trichlorofluoromethane	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Vinyl acetate	ND	40	1	B9G0400	07/17/2019	07/17/19 15:54	
Vinyl chloride	ND	4.0	1	B9G0400	07/17/2019	07/17/19 15:54	
Surrogate: 1,2-Dichloroethane-d4	*114 %*	*60 - 145*		B9G0400	07/17/2019	*07/17/19 15:54*	
Surrogate: 4-Bromofluorobenzene	*99.9 %*	*68 - 121*		B9G0400	07/17/2019	*07/17/19 15:54*	
Surrogate: Dibromofluoromethane	*105 %*	*65 - 137*		B9G0400	07/17/2019	*07/17/19 15:54*	
Surrogate: Toluene-d8	*98.3 %*	*82 - 119*		B9G0400	07/17/2019	*07/17/19 15:54*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B13-2.5

Lab ID: 1902701-36

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.6**	1.0	1	B9G0406	07/17/2019	07/18/19 13:28	

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:12	
4,4′-DDE	**46**	2.0	1	B9G0439	07/17/2019	07/20/19 16:12	
4,4′-DDT	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:12	
Aldrin	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:12	
alpha-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:12	
alpha-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:12	
beta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:12	
Chlordane	ND	8.5	1	B9G0439	07/17/2019	07/20/19 16:12	
delta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:12	
Dieldrin [2C]	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:12	
Endosulfan I	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:12	
Endosulfan II	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:12	
Endosulfan sulfate	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:12	
Endrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:12	
Endrin aldehyde	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:12	
Endrin ketone	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:12	
gamma-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:12	
gamma-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:12	
Heptachlor	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:12	
Heptachlor epoxide	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:12	
Methoxychlor	ND	5.0	1	B9G0439	07/17/2019	07/20/19 16:12	
Toxaphene	ND	50	1	B9G0439	07/17/2019	07/20/19 16:12	
Surrogate: Decachlorobiphenyl	*48.4 %*	*32 - 91*		B9G0439	07/17/2019	*07/20/19 16:12*	
Surrogate: Tetrachloro-m-xylene	*68.8 %*	*38 - 93*		B9G0439	07/17/2019	*07/20/19 16:12*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
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Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B13-2.5

Lab ID: 1902701-36

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
1,1,1-Trichloroethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
1,1,2,2-Tetrachloroethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
1,1,2-Trichloroethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
1,1-Dichloroethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
1,1-Dichloroethene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
1,1-Dichloropropene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
1,2,3-Trichloropropane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
1,2,3-Trichlorobenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
1,2,4-Trichlorobenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
1,2,4-Trimethylbenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
1,2-Dibromo-3-chloropropane	ND	9.6	1	B9G0400	07/17/2019	07/17/19 16:13	
1,2-Dibromoethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
1,2-Dichlorobenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
1,2-Dichloroethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
1,2-Dichloropropane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
1,3,5-Trimethylbenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
1,3-Dichlorobenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
1,3-Dichloropropane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
1,4-Dichlorobenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
2,2-Dichloropropane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
2-Chlorotoluene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
4-Chlorotoluene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
4-Isopropyltoluene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Benzene	**37**	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Bromobenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Bromochloromethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Bromodichloromethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Bromoform	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Bromomethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Carbon disulfide	**5.0**	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Carbon tetrachloride	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Chlorobenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Chloroethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Chloroform	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Chloromethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
cis-1,2-Dichloroethene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B13-2.5

Lab ID: 1902701-36

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Di-isopropyl ether	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Dibromochloromethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Dibromomethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Dichlorodifluoromethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Ethyl Acetate	ND	48	1	B9G0400	07/17/2019	07/17/19 16:13	
Ethyl Ether	ND	48	1	B9G0400	07/17/2019	07/17/19 16:13	
Ethyl tert-butyl ether	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Ethylbenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Freon-113	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Hexachlorobutadiene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Isopropylbenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
m,p-Xylene	ND	9.6	1	B9G0400	07/17/2019	07/17/19 16:13	
Methylene chloride	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
MTBE	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
n-Butylbenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
n-Propylbenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Naphthalene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
o-Xylene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
sec-Butylbenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Styrene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
tert-Amyl methyl ether	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
tert-Butanol	ND	96	1	B9G0400	07/17/2019	07/17/19 16:13	
tert-Butylbenzene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Tetrachloroethene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Toluene	**21**	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
trans-1,2-Dichloroethene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
trans-1,3-Dichloropropene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Trichloroethene	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Trichlorofluoromethane	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Vinyl acetate	ND	48	1	B9G0400	07/17/2019	07/17/19 16:13	
Vinyl chloride	ND	4.8	1	B9G0400	07/17/2019	07/17/19 16:13	
Surrogate: 1,2-Dichloroethane-d4	*123 %*	*60 - 145*		B9G0400	07/17/2019	*07/17/19 16:13*	
Surrogate: 4-Bromofluorobenzene	*97.8 %*	*68 - 121*		B9G0400	07/17/2019	*07/17/19 16:13*	
Surrogate: Dibromofluoromethane	*110 %*	*65 - 137*		B9G0400	07/17/2019	*07/17/19 16:13*	
Surrogate: Toluene-d8	*99.3 %*	*82 - 119*		B9G0400	07/17/2019	*07/17/19 16:13*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B13-5.0

Lab ID: 1902701-37

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0439	07/17/2019	07/22/19 10:09	
4,4′-DDE	ND	2.0	1	B9G0439	07/17/2019	07/22/19 10:09	
4,4′-DDT	ND	2.0	1	B9G0439	07/17/2019	07/22/19 10:09	
Aldrin	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:09	
alpha-BHC	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:09	
alpha-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:09	
beta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:09	
Chlordane	ND	8.5	1	B9G0439	07/17/2019	07/22/19 10:09	
delta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:09	
Dieldrin	ND	2.0	1	B9G0439	07/17/2019	07/22/19 10:09	
Endosulfan I	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:09	
Endosulfan II	ND	2.0	1	B9G0439	07/17/2019	07/22/19 10:09	
Endosulfan sulfate	ND	2.0	1	B9G0439	07/17/2019	07/22/19 10:09	
Endrin	ND	2.0	1	B9G0439	07/17/2019	07/22/19 10:09	
Endrin aldehyde	ND	2.0	1	B9G0439	07/17/2019	07/22/19 10:09	
Endrin ketone	ND	2.0	1	B9G0439	07/17/2019	07/22/19 10:09	
gamma-BHC	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:09	
gamma-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:09	
Heptachlor	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:09	
Heptachlor epoxide	ND	1.0	1	B9G0439	07/17/2019	07/22/19 10:09	
Methoxychlor	ND	5.0	1	B9G0439	07/17/2019	07/22/19 10:09	
Toxaphene	ND	50	1	B9G0439	07/17/2019	07/22/19 10:09	
Surrogate: Decachlorobiphenyl	*33.9 %*	*32 - 91*		B9G0439	07/17/2019	*07/22/19 10:09*	
Surrogate: Tetrachloro-m-xylene	*53.4 %*	*38 - 93*		B9G0439	07/17/2019	*07/22/19 10:09*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B13-5.0

Lab ID: 1902701-37

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
1,1,1-Trichloroethane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
1,1,2,2-Tetrachloroethane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
1,1,2-Trichloroethane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
1,1-Dichloroethane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
1,1-Dichloroethene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
1,1-Dichloropropene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
1,2,3-Trichloropropane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
1,2,3-Trichlorobenzene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
1,2,4-Trichlorobenzene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
1,2,4-Trimethylbenzene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
1,2-Dibromo-3-chloropropane	ND	8.8	1	B9G0400	07/17/2019	07/17/19 16:32	
1,2-Dibromoethane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
1,2-Dichlorobenzene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
1,2-Dichloroethane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
1,2-Dichloropropane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
1,3,5-Trimethylbenzene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
1,3-Dichlorobenzene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
1,3-Dichloropropane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
1,4-Dichlorobenzene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
2,2-Dichloropropane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
2-Chlorotoluene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
4-Chlorotoluene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
4-Isopropyltoluene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Benzene	**57**	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Bromobenzene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Bromochloromethane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Bromodichloromethane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Bromoform	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Bromomethane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Carbon disulfide	**6.1**	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Carbon tetrachloride	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Chlorobenzene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Chloroethane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Chloroform	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Chloromethane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
cis-1,2-Dichloroethene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B13-5.0

Lab ID: 1902701-37

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Di-isopropyl ether	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Dibromochloromethane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Dibromomethane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Dichlorodifluoromethane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Ethyl Acetate	ND	44	1	B9G0400	07/17/2019	07/17/19 16:32	
Ethyl Ether	ND	44	1	B9G0400	07/17/2019	07/17/19 16:32	
Ethyl tert-butyl ether	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Ethylbenzene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Freon-113	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Hexachlorobutadiene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Isopropylbenzene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
m,p-Xylene	ND	8.8	1	B9G0400	07/17/2019	07/17/19 16:32	
Methylene chloride	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
MTBE	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
n-Butylbenzene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
n-Propylbenzene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Naphthalene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
o-Xylene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
sec-Butylbenzene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Styrene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
tert-Amyl methyl ether	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
tert-Butanol	ND	88	1	B9G0400	07/17/2019	07/17/19 16:32	
tert-Butylbenzene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Tetrachloroethene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Toluene	**32**	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
trans-1,2-Dichloroethene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
trans-1,3-Dichloropropene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Trichloroethene	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Trichlorofluoromethane	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Vinyl acetate	ND	44	1	B9G0400	07/17/2019	07/17/19 16:32	
Vinyl chloride	ND	4.4	1	B9G0400	07/17/2019	07/17/19 16:32	
Surrogate: 1,2-Dichloroethane-d4	*118 %*	*60 - 145*		B9G0400	07/17/2019	*07/17/19 16:32*	
Surrogate: 4-Bromofluorobenzene	*97.2 %*	*68 - 121*		B9G0400	07/17/2019	*07/17/19 16:32*	
Surrogate: Dibromofluoromethane	*108 %*	*65 - 137*		B9G0400	07/17/2019	*07/17/19 16:32*	
Surrogate: Toluene-d8	*97.8 %*	*82 - 119*		B9G0400	07/17/2019	*07/17/19 16:32*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B13-10.0

Lab ID: 1902701-38

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:33	
4,4′-DDE	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:33	
4,4′-DDT	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:33	
Aldrin	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:33	
alpha-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:33	
alpha-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:33	
beta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:33	
Chlordane	ND	8.5	1	B9G0439	07/17/2019	07/20/19 16:33	
delta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:33	
Dieldrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:33	
Endosulfan I	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:33	
Endosulfan II	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:33	
Endosulfan sulfate	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:33	
Endrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:33	
Endrin aldehyde	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:33	
Endrin ketone	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:33	
gamma-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:33	
gamma-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:33	
Heptachlor	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:33	
Heptachlor epoxide	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:33	
Methoxychlor	ND	5.0	1	B9G0439	07/17/2019	07/20/19 16:33	
Toxaphene	ND	50	1	B9G0439	07/17/2019	07/20/19 16:33	
Surrogate: Decachlorobiphenyl	*49.2 %*	*32 - 91*		B9G0439	07/17/2019	*07/20/19 16:33*	
Surrogate: Tetrachloro-m-xylene	*72.8 %*	*38 - 93*		B9G0439	07/17/2019	*07/20/19 16:33*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B13-10.0

Lab ID: 1902701-38

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
1,1,1-Trichloroethane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
1,1,2,2-Tetrachloroethane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
1,1,2-Trichloroethane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
1,1-Dichloroethane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
1,1-Dichloroethene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
1,1-Dichloropropene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
1,2,3-Trichloropropane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
1,2,3-Trichlorobenzene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
1,2,4-Trichlorobenzene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
1,2,4-Trimethylbenzene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
1,2-Dibromo-3-chloropropane	ND	9.7	1	B9G0428	07/17/2019	07/17/19 19:48	
1,2-Dibromoethane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
1,2-Dichlorobenzene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
1,2-Dichloroethane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
1,2-Dichloropropane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
1,3,5-Trimethylbenzene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
1,3-Dichlorobenzene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
1,3-Dichloropropane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
1,4-Dichlorobenzene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
2,2-Dichloropropane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
2-Chlorotoluene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
4-Chlorotoluene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
4-Isopropyltoluene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Benzene	**92**	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Bromobenzene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Bromochloromethane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Bromodichloromethane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Bromoform	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Bromomethane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Carbon disulfide	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Carbon tetrachloride	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Chlorobenzene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Chloroethane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Chloroform	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Chloromethane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
cis-1,2-Dichloroethene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B13-10.0

Lab ID: 1902701-38

Volatile Organic Compounds by EPA 5035 / EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Di-isopropyl ether	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Dibromochloromethane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Dibromomethane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Dichlorodifluoromethane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Ethyl Acetate	ND	48	1	B9G0428	07/17/2019	07/17/19 19:48	
Ethyl Ether	ND	48	1	B9G0428	07/17/2019	07/17/19 19:48	
Ethyl tert-butyl ether	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Ethylbenzene	**7.7**	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Freon-113	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Hexachlorobutadiene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Isopropylbenzene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
m,p-Xylene	**10**	9.7	1	B9G0428	07/17/2019	07/17/19 19:48	
Methylene chloride	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
MTBE	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
n-Butylbenzene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
n-Propylbenzene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Naphthalene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
o-Xylene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
sec-Butylbenzene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Styrene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
tert-Amyl methyl ether	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
tert-Butanol	ND	97	1	B9G0428	07/17/2019	07/17/19 19:48	
tert-Butylbenzene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Tetrachloroethene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Toluene	**56**	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
trans-1,2-Dichloroethene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
trans-1,3-Dichloropropene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Trichloroethene	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Trichlorofluoromethane	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Vinyl acetate	ND	48	1	B9G0428	07/17/2019	07/17/19 19:48	
Vinyl chloride	ND	4.8	1	B9G0428	07/17/2019	07/17/19 19:48	
Surrogate: 1,2-Dichloroethane-d4	*116 %*	*60 - 145*		B9G0428	07/17/2019	*07/17/19 19:48*	
Surrogate: 4-Bromofluorobenzene	*99.0 %*	*68 - 121*		B9G0428	07/17/2019	*07/17/19 19:48*	
Surrogate: Dibromofluoromethane	*109 %*	*65 - 137*		B9G0428	07/17/2019	*07/17/19 19:48*	
Surrogate: Toluene-d8	*100 %*	*82 - 119*		B9G0428	07/17/2019	*07/17/19 19:48*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B13-GW

Lab ID: 1902701-39

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
1,1,1-Trichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
1,1,2-Trichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
1,1-Dichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
1,1-Dichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
1,1-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
1,2,3-Trichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
1,2,3-Trichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
1,2,4-Trichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
1,2,4-Trimethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
1,2-Dibromoethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
1,2-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
1,2-Dichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
1,2-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
1,3,5-Trimethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
1,3-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
1,3-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
1,4-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
2,2-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
2-Chlorotoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
4-Chlorotoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
4-Isopropyltoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Benzene	**0.77**	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Bromobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Bromochloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Bromodichloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Bromoform	**16**	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Bromomethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Carbon disulfide	ND	1.0	1	B9G0409	07/17/2019	07/17/19 14:12	
Carbon tetrachloride	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Chlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Chloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Chloroform	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Chloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
cis-1,2-Dichloroethene	**13**	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B13-GW
Lab ID: 1902701-39

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Di-isopropyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Dibromochloromethane	**5.9**	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Dibromomethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Dichlorodifluoromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Ethyl Acetate	ND	10	1	B9G0409	07/17/2019	07/17/19 14:12	
Ethyl Ether	ND	10	1	B9G0409	07/17/2019	07/17/19 14:12	
Ethyl tert-butyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Ethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Freon-113	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Hexachlorobutadiene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Isopropylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
m,p-Xylene	ND	1.0	1	B9G0409	07/17/2019	07/17/19 14:12	
Methylene chloride	ND	1.0	1	B9G0409	07/17/2019	07/17/19 14:12	
MTBE	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
n-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
n-Propylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Naphthalene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
o-Xylene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
sec-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Styrene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
tert-Amyl methyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
tert-Butanol	ND	10	1	B9G0409	07/17/2019	07/17/19 14:12	
tert-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Tetrachloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Toluene	**0.80**	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
trans-1,2-Dichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
trans-1,3-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Trichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Trichlorofluoromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Vinyl acetate	ND	10	1	B9G0409	07/17/2019	07/17/19 14:12	
Vinyl chloride	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:12	
Surrogate: 1,2-Dichloroethane-d4	*110 %*	*57 - 152*		B9G0409	07/17/2019	*07/17/19 14:12*	
Surrogate: 4-Bromofluorobenzene	*98.1 %*	*62 - 134*		B9G0409	07/17/2019	*07/17/19 14:12*	
Surrogate: Dibromofluoromethane	*94.9 %*	*56 - 167*		B9G0409	07/17/2019	*07/17/19 14:12*	
Surrogate: Toluene-d8	*98.6 %*	*33 - 170*		B9G0409	07/17/2019	*07/17/19 14:12*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.0(
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B13-GWD

Lab ID: 1902701-40

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
1,1,1-Trichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
1,1,2-Trichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
1,1-Dichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
1,1-Dichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
1,1-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
1,2,3-Trichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
1,2,3-Trichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
1,2,4-Trichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
1,2,4-Trimethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
1,2-Dibromoethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
1,2-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
1,2-Dichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
1,2-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
1,3,5-Trimethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
1,3-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
1,3-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
1,4-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
2,2-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
2-Chlorotoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
4-Chlorotoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
4-Isopropyltoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Benzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Bromobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Bromochloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Bromodichloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Bromoform	**16**	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Bromomethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Carbon disulfide	ND	1.0	1	B9G0409	07/17/2019	07/17/19 14:35	
Carbon tetrachloride	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Chlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Chloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Chloroform	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Chloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
cis-1,2-Dichloroethene	**13**	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B13-GWD
Lab ID: 1902701-40

Volatile Organic Compounds by EPA 8260B — **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Di-isopropyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Dibromochloromethane	**5.5**	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Dibromomethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Dichlorodifluoromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Ethyl Acetate	ND	10	1	B9G0409	07/17/2019	07/17/19 14:35	
Ethyl Ether	ND	10	1	B9G0409	07/17/2019	07/17/19 14:35	
Ethyl tert-butyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Ethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Freon-113	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Hexachlorobutadiene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Isopropylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
m,p-Xylene	ND	1.0	1	B9G0409	07/17/2019	07/17/19 14:35	
Methylene chloride	ND	1.0	1	B9G0409	07/17/2019	07/17/19 14:35	
MTBE	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
n-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
n-Propylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Naphthalene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
o-Xylene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
sec-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Styrene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
tert-Amyl methyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
tert-Butanol	ND	10	1	B9G0409	07/17/2019	07/17/19 14:35	
tert-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Tetrachloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Toluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
trans-1,2-Dichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
trans-1,3-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Trichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Trichlorofluoromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Vinyl acetate	ND	10	1	B9G0409	07/17/2019	07/17/19 14:35	
Vinyl chloride	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:35	
Surrogate: 1,2-Dichloroethane-d4	*110 %*	*57 - 152*		B9G0409	07/17/2019	*07/17/19 14:35*	
Surrogate: 4-Bromofluorobenzene	*99.9 %*	*62 - 134*		B9G0409	07/17/2019	*07/17/19 14:35*	
Surrogate: Dibromofluoromethane	*97.8 %*	*56 - 167*		B9G0409	07/17/2019	*07/17/19 14:35*	
Surrogate: Toluene-d8	*103 %*	*33 - 170*		B9G0409	07/17/2019	*07/17/19 14:35*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B14-GW

Lab ID: 1902701-41

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
1,1,1-Trichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
1,1,2-Trichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
1,1-Dichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
1,1-Dichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
1,1-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
1,2,3-Trichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
1,2,3-Trichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
1,2,4-Trichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
1,2,4-Trimethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
1,2-Dibromoethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
1,2-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
1,2-Dichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
1,2-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
1,3,5-Trimethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
1,3-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
1,3-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
1,4-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
2,2-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
2-Chlorotoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
4-Chlorotoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
4-Isopropyltoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Benzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Bromobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Bromochloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Bromodichloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Bromoform	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Bromomethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Carbon disulfide	ND	1.0	1	B9G0409	07/17/2019	07/17/19 14:58	
Carbon tetrachloride	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Chlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Chloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Chloroform	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Chloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
cis-1,2-Dichloroethene	**120**	5.0	10	B9G0409	07/17/2019	07/17/19 18:01	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B14-GW

Lab ID: 1902701-41

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Di-isopropyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Dibromochloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Dibromomethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Dichlorodifluoromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Ethyl Acetate	ND	10	1	B9G0409	07/17/2019	07/17/19 14:58	
Ethyl Ether	ND	10	1	B9G0409	07/17/2019	07/17/19 14:58	
Ethyl tert-butyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Ethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Freon-113	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Hexachlorobutadiene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Isopropylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
m,p-Xylene	ND	1.0	1	B9G0409	07/17/2019	07/17/19 14:58	
Methylene chloride	ND	1.0	1	B9G0409	07/17/2019	07/17/19 14:58	
MTBE	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
n-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
n-Propylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Naphthalene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
o-Xylene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
sec-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Styrene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
tert-Amyl methyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
tert-Butanol	ND	10	1	B9G0409	07/17/2019	07/17/19 14:58	
tert-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Tetrachloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Toluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
trans-1,2-Dichloroethene	**5.2**	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
trans-1,3-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Trichloroethene	**12**	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Trichlorofluoromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Vinyl acetate	ND	10	1	B9G0409	07/17/2019	07/17/19 14:58	
Vinyl chloride	ND	0.50	1	B9G0409	07/17/2019	07/17/19 14:58	
Surrogate: 1,2-Dichloroethane-d4	*110 %*	*57 - 152*		B9G0409	07/17/2019	*07/17/19 18:01*	
Surrogate: 1,2-Dichloroethane-d4	*104 %*	*57 - 152*		B9G0409	07/17/2019	*07/17/19 14:58*	
Surrogate: 4-Bromofluorobenzene	*99.2 %*	*62 - 134*		B9G0409	07/17/2019	*07/17/19 14:58*	
Surrogate: 4-Bromofluorobenzene	*98.2 %*	*62 - 134*		B9G0409	07/17/2019	*07/17/19 18:01*	
Surrogate: Dibromofluoromethane	*95.8 %*	*56 - 167*		B9G0409	07/17/2019	*07/17/19 14:58*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.0(
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID B14-GW

Lab ID: 1902701-41

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Dibromofluoromethane	*102 %*	*56 - 167*		B9G0409	07/17/2019	*07/17/19 18:01*	
Surrogate: Toluene-d8	*103 %*	*33 - 170*		B9G0409	07/17/2019	*07/17/19 14:58*	
Surrogate: Toluene-d8	*102 %*	*33 - 170*		B9G0409	07/17/2019	*07/17/19 18:01*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID Trip Blank

Lab ID: 1902701-42

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
1,1,1-Trichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
1,1,2-Trichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
1,1-Dichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
1,1-Dichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
1,1-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
1,2,3-Trichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
1,2,3-Trichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
1,2,4-Trichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
1,2,4-Trimethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
1,2-Dibromoethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
1,2-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
1,2-Dichloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
1,2-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
1,3,5-Trimethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
1,3-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
1,3-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
1,4-Dichlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
2,2-Dichloropropane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
2-Chlorotoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
4-Chlorotoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
4-Isopropyltoluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Benzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Bromobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Bromochloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Bromodichloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Bromoform	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Bromomethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Carbon disulfide	ND	1.0	1	B9G0409	07/17/2019	07/17/19 10:47	
Carbon tetrachloride	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Chlorobenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Chloroethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Chloroform	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Chloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
cis-1,2-Dichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID Trip Blank
Lab ID: 1902701-42

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Di-isopropyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Dibromochloromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Dibromomethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Dichlorodifluoromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Ethyl Acetate	ND	10	1	B9G0409	07/17/2019	07/17/19 10:47	
Ethyl Ether	ND	10	1	B9G0409	07/17/2019	07/17/19 10:47	
Ethyl tert-butyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Ethylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Freon-113	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Hexachlorobutadiene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Isopropylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
m,p-Xylene	ND	1.0	1	B9G0409	07/17/2019	07/17/19 10:47	
Methylene chloride	ND	1.0	1	B9G0409	07/17/2019	07/17/19 10:47	
MTBE	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
n-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
n-Propylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Naphthalene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
o-Xylene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
sec-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Styrene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
tert-Amyl methyl ether	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
tert-Butanol	ND	10	1	B9G0409	07/17/2019	07/17/19 10:47	
tert-Butylbenzene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Tetrachloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Toluene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
trans-1,2-Dichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
trans-1,3-Dichloropropene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Trichloroethene	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Trichlorofluoromethane	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Vinyl acetate	ND	10	1	B9G0409	07/17/2019	07/17/19 10:47	
Vinyl chloride	ND	0.50	1	B9G0409	07/17/2019	07/17/19 10:47	
Surrogate: 1,2-Dichloroethane-d4	*104 %*	*57 - 152*		B9G0409	07/17/2019	*07/17/19 10:47*	
Surrogate: 4-Bromofluorobenzene	*105 %*	*62 - 134*		B9G0409	07/17/2019	*07/17/19 10:47*	
Surrogate: Dibromofluoromethane	*94.9 %*	*56 - 167*		B9G0409	07/17/2019	*07/17/19 10:47*	
Surrogate: Toluene-d8	*105 %*	*33 - 170*		B9G0409	07/17/2019	*07/17/19 10:47*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID Drum

Lab ID: 1902701-43

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Arsenic	**2.3**	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Barium	**81**	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Beryllium	ND	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Cadmium	ND	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Chromium	**16**	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Cobalt	**8.0**	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Copper	**15**	2.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Lead	**2.7**	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Molybdenum	ND	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Nickel	**11**	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Selenium	ND	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Silver	ND	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Thallium	ND	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Vanadium	**30**	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	
Zinc	**44**	1.0	1	B9G0445	07/18/2019	07/18/19 15:56	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B9G0446	07/18/2019	07/18/19 17:24	

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	ND	10	1	B9G0412	07/17/2019	07/18/19 02:02	
ORO	ND	10	1	B9G0412	07/17/2019	07/18/19 02:02	
Surrogate: p-Terphenyl	*108 %*	*58 - 172*		B9G0412	07/17/2019	*07/18/19 02:02*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID Drum

Lab ID: 1902701-43

Organochlorine Pesticides by EPA 8081 **Analyst: KD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:43	
4,4´-DDE	**46**	2.0	1	B9G0439	07/17/2019	07/20/19 16:43	
4,4´-DDT [2C]	**5.9**	2.0	1	B9G0439	07/17/2019	07/20/19 16:43	
Aldrin	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:43	
alpha-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:43	
alpha-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:43	
beta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:43	
Chlordane	ND	8.5	1	B9G0439	07/17/2019	07/20/19 16:43	
delta-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:43	
Dieldrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:43	
Endosulfan I	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:43	
Endosulfan II	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:43	
Endosulfan sulfate	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:43	
Endrin	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:43	
Endrin aldehyde	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:43	
Endrin ketone	ND	2.0	1	B9G0439	07/17/2019	07/20/19 16:43	
gamma-BHC	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:43	
gamma-Chlordane	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:43	
Heptachlor	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:43	
Heptachlor epoxide	ND	1.0	1	B9G0439	07/17/2019	07/20/19 16:43	
Methoxychlor	ND	5.0	1	B9G0439	07/17/2019	07/20/19 16:43	
Toxaphene	ND	50	1	B9G0439	07/17/2019	07/20/19 16:43	
Surrogate: Decachlorobiphenyl	*72.1 %*	*32 - 91*		B9G0439	07/17/2019	*07/20/19 16:43*	
Surrogate: Tetrachloro-m-xylene	*91.4 %*	*38 - 93*		B9G0439	07/17/2019	*07/20/19 16:43*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID Drum

Lab ID: 1902701-43

Volatile Organic Compounds by EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
1,1,1-Trichloroethane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
1,1,2-Trichloroethane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
1,1-Dichloroethane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
1,1-Dichloroethene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
1,1-Dichloropropene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
1,2,3-Trichloropropane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
1,2,3-Trichlorobenzene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
1,2,4-Trichlorobenzene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
1,2,4-Trimethylbenzene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
1,2-Dibromo-3-chloropropane	ND	10	1	B9G0428	07/17/2019	07/17/19 19:29	
1,2-Dibromoethane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
1,2-Dichlorobenzene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
1,2-Dichloroethane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
1,2-Dichloropropane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
1,3,5-Trimethylbenzene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
1,3-Dichlorobenzene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
1,3-Dichloropropane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
1,4-Dichlorobenzene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
2,2-Dichloropropane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
2-Chlorotoluene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
4-Chlorotoluene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
4-Isopropyltoluene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Benzene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Bromobenzene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Bromochloromethane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Bromodichloromethane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Bromoform	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Bromomethane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Carbon disulfide	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Carbon tetrachloride	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Chlorobenzene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Chloroethane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Chloroform	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Chloromethane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
cis-1,2-Dichloroethene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.00
17781 Cowan Street	Report To : Meredith Church
Irvine , CA 92614	Reported : 07/22/2019

Client Sample ID Drum

Lab ID: 1902701-43

Volatile Organic Compounds by EPA 8260B **Analyst: JBL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Di-isopropyl ether	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Dibromochloromethane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Dibromomethane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Dichlorodifluoromethane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Ethyl Acetate	ND	50	1	B9G0428	07/17/2019	07/17/19 19:29	
Ethyl Ether	ND	50	1	B9G0428	07/17/2019	07/17/19 19:29	
Ethyl tert-butyl ether	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Ethylbenzene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Freon-113	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Hexachlorobutadiene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Isopropylbenzene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
m,p-Xylene	ND	10	1	B9G0428	07/17/2019	07/17/19 19:29	
Methylene chloride	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
MTBE	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
n-Butylbenzene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
n-Propylbenzene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Naphthalene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
o-Xylene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
sec-Butylbenzene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Styrene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
tert-Amyl methyl ether	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
tert-Butanol	ND	100	1	B9G0428	07/17/2019	07/17/19 19:29	
tert-Butylbenzene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Tetrachloroethene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Toluene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
trans-1,2-Dichloroethene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
trans-1,3-Dichloropropene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Trichloroethene	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Trichlorofluoromethane	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Vinyl acetate	ND	50	1	B9G0428	07/17/2019	07/17/19 19:29	
Vinyl chloride	ND	5.0	1	B9G0428	07/17/2019	07/17/19 19:29	
Surrogate: 1,2-Dichloroethane-d4	*99.2 %*	*60 - 145*		B9G0428	07/17/2019	*07/17/19 19:29*	
Surrogate: 4-Bromofluorobenzene	*96.7 %*	*68 - 121*		B9G0428	07/17/2019	*07/17/19 19:29*	
Surrogate: Dibromofluoromethane	*99.2 %*	*65 - 137*		B9G0428	07/17/2019	*07/17/19 19:29*	
Surrogate: Toluene-d8	*95.8 %*	*82 - 119*		B9G0428	07/17/2019	*07/17/19 19:29*	

Certificate of Analysis

Leighton & Associates	Project Number : Brookfield - Moiola School, FV, 12418.0(
17781 Cowan Street	Report To : Meredith Church
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QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0405 - EPA 3050B_S										
Blank (B9G0405-BLK1)					Prepared: 7/17/2019 Analyzed: 7/18/2019					
Arsenic	ND	1.0	0.12							
LCS (B9G0405-BS1)					Prepared: 7/17/2019 Analyzed: 7/18/2019					
Arsenic	41.3038	1.0	0.12	50.0000		82.6	80 - 120			
Matrix Spike (B9G0405-MS1)			**Source: 1902696-32**		Prepared: 7/17/2019 Analyzed: 7/18/2019					
Arsenic	75.9540	1.0	0.12	125.000	2.32960	58.9	49 - 96			
Matrix Spike Dup (B9G0405-MSD1)			**Source: 1902696-32**		Prepared: 7/17/2019 Analyzed: 7/18/2019					
Arsenic	85.3212	1.0	0.12	125.000	2.32960	66.4	49 - 96	11.6	20	

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Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0406 - EPA 3050B_S										
Blank (B9G0406-BLK1)					Prepared: 7/17/2019 Analyzed: 7/18/2019					
Arsenic	ND	1.0	0.12							
LCS (B9G0406-BS1)					Prepared: 7/17/2019 Analyzed: 7/18/2019					
Arsenic	41.4554	1.0	0.12	50.0000		82.9	80 - 120			
Duplicate (B9G0406-DUP1)			**Source: 1902651-01**		Prepared: 7/17/2019 Analyzed: 7/18/2019					
Arsenic	1.95234	1.0	0.12		2.64869			30.3	20	R
Matrix Spike (B9G0406-MS1)			**Source: 1902485-05**		Prepared: 7/17/2019 Analyzed: 7/18/2019					
Arsenic	87.4734	1.0	0.12	125.000	1.02905	69.2	49 - 96			
Matrix Spike Dup (B9G0406-MSD1)			**Source: 1902485-05**		Prepared: 7/17/2019 Analyzed: 7/18/2019					
Arsenic	83.7891	1.0	0.12	125.000	1.02905	66.2	49 - 96	4.30	20	

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Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0445 - EPA 3050B_S										
Blank (B9G0445-BLK1)						Prepared: 7/18/2019 Analyzed: 7/18/2019				
Antimony	ND	2.0	0.51							
Arsenic	ND	1.0	0.12							
Barium	ND	1.0	0.12							
Beryllium	ND	1.0	0.03							
Cadmium	ND	1.0	0.14							
Chromium	ND	1.0	0.26							
Cobalt	ND	1.0	0.07							
Copper	ND	2.0	0.19							
Lead	ND	1.0	0.18							
Molybdenum	ND	1.0	0.12							
Nickel	ND	1.0	0.18							
Selenium	ND	1.0	0.40							
Silver	ND	1.0	0.12							
Thallium	ND	1.0	0.38							
Vanadium	ND	1.0	0.06							
Zinc	ND	1.0	0.15							
LCS (B9G0445-BS1)						Prepared: 7/18/2019 Analyzed: 7/18/2019				
Antimony	40.4123	2.0	0.51	50.0000		80.8	80 - 120			
Arsenic	40.2822	1.0	0.12	50.0000		80.6	80 - 120			
Barium	43.6551	1.0	0.12	50.0000		87.3	80 - 120			
Beryllium	41.3090	1.0	0.03	50.0000		82.6	80 - 120			
Cadmium	41.1952	1.0	0.14	50.0000		82.4	80 - 120			
Chromium	44.0053	1.0	0.26	50.0000		88.0	80 - 120			
Cobalt	42.6526	1.0	0.07	50.0000		85.3	80 - 120			
Copper	43.2365	2.0	0.19	50.0000		86.5	80 - 120			
Lead	40.5934	1.0	0.18	50.0000		81.2	80 - 120			
Molybdenum	42.3010	1.0	0.12	50.0000		84.6	80 - 120			
Nickel	42.2942	1.0	0.18	50.0000		84.6	80 - 120			
Selenium	40.0316	1.0	0.40	50.0000		80.1	80 - 120			
Silver	42.3334	1.0	0.12	50.0000		84.7	80 - 120			
Thallium	40.8341	1.0	0.38	50.0000		81.7	80 - 120			
Vanadium	43.5807	1.0	0.06	50.0000		87.2	80 - 120			
Zinc	40.8777	1.0	0.15	50.0000		81.8	80 - 120			
Matrix Spike (B9G0445-MS1)				**Source: 1902670-01**		Prepared: 7/18/2019 Analyzed: 7/18/2019				
Antimony	78.4046	2.0	0.51	125.000	ND	62.7	21 - 102			
Arsenic	92.9622	1.0	0.12	125.000	2.91090	72.0	49 - 96			
Barium	136.781	1.0	0.12	125.000	44.1483	74.1	26 - 121			
Beryllium	92.8538	1.0	0.03	125.000	ND	74.3	51 - 96			
Cadmium	89.2774	1.0	0.14	125.000	0.258432	71.2	46 - 93			
Chromium	116.373	1.0	0.26	125.000	19.2861	77.7	44 - 107			

Certificate of Analysis

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Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0445 - EPA 3050B_S (continued)										
Matrix Spike (B9G0445-MS1) - Continued			**Source: 1902670-01**		Prepared: 7/18/2019 Analyzed: 7/18/2019					
Cobalt	97.7785	1.0	0.07	125.000	6.69546	72.9	49 - 100			
Copper	122.048	2.0	0.19	125.000	28.7123	74.7	46 - 115			
Lead	116.912	1.0	0.18	125.000	29.3382	70.1	29 - 126			
Molybdenum	95.4404	1.0	0.12	125.000	0.902094	75.6	48 - 99			
Nickel	113.624	1.0	0.18	125.000	24.7161	71.1	37 - 108			
Selenium	88.6976	1.0	0.40	125.000	ND	71.0	48 - 95			
Silver	98.6160	1.0	0.12	125.000	ND	78.9	53 - 99			
Thallium	86.0445	1.0	0.38	125.000	ND	68.8	38 - 93			
Vanadium	120.890	1.0	0.06	125.000	21.5681	79.5	48 - 104			
Zinc	172.580	1.0	0.15	125.000	99.1976	58.7	24 - 111			
Matrix Spike Dup (B9G0445-MSD1)			**Source: 1902670-01**		Prepared: 7/18/2019 Analyzed: 7/18/2019					
Antimony	76.7944	2.0	0.51	125.000	ND	61.4	21 - 102	2.08	20	
Arsenic	94.1204	1.0	0.12	125.000	2.91090	73.0	49 - 96	1.24	20	
Barium	137.795	1.0	0.12	125.000	44.1483	74.9	26 - 121	0.738	20	
Beryllium	94.2763	1.0	0.03	125.000	ND	75.4	51 - 96	1.52	20	
Cadmium	88.8723	1.0	0.14	125.000	0.258432	70.9	46 - 93	0.455	20	
Chromium	117.370	1.0	0.26	125.000	19.2861	78.5	44 - 107	0.853	20	
Cobalt	98.5330	1.0	0.07	125.000	6.69546	73.5	49 - 100	0.769	20	
Copper	135.957	2.0	0.19	125.000	28.7123	85.8	46 - 115	10.8	20	
Lead	115.925	1.0	0.18	125.000	29.3382	69.3	29 - 126	0.848	20	
Molybdenum	106.502	1.0	0.12	125.000	0.902094	84.5	48 - 99	11.0	20	
Nickel	115.298	1.0	0.18	125.000	24.7161	72.5	37 - 108	1.46	20	
Selenium	89.4480	1.0	0.40	125.000	ND	71.6	48 - 95	0.842	20	
Silver	98.6299	1.0	0.12	125.000	ND	78.9	53 - 99	0.0141	20	
Thallium	85.9719	1.0	0.38	125.000	ND	68.8	38 - 93	0.0844	20	
Vanadium	121.223	1.0	0.06	125.000	21.5681	79.7	48 - 104	0.275	20	
Zinc	257.586	1.0	0.15	125.000	99.1976	127	24 - 111	39.5	20	M1, R

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Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0446 - EPA 7471_S										
Blank (B9G0446-BLK1)					Prepared: 7/18/2019 Analyzed: 7/18/2019					
Mercury	ND	0.10	0.007							
LCS (B9G0446-BS1)					Prepared: 7/18/2019 Analyzed: 7/18/2019					
Mercury	0.465991	0.10	0.007	0.416667		112	80 - 120			
Matrix Spike (B9G0446-MS1)			**Source: 1902670-01**		Prepared: 7/18/2019 Analyzed: 7/18/2019					
Mercury	0.532140	0.10	0.007	0.416667	0.067813	111	70 - 130			
Matrix Spike Dup (B9G0446-MSD1)			**Source: 1902670-01**		Prepared: 7/18/2019 Analyzed: 7/18/2019					
Mercury	0.544713	0.10	0.007	0.416667	0.067813	114	70 - 130	2.34	20	

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Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0446 - EPA 7471_S									
Post Spike (B9G0446-PS1)			**Source: 1902670-01**	Prepared: 7/18/2019 Analyzed: 7/18/2019					
Mercury	0.003184		2.00000E-3	0.000814	119	85 - 115			M1

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Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0412 - GCSEMI_DRO_S										
Blank (B9G0412-BLK1)						Prepared: 7/17/2019 Analyzed: 7/17/2019				
DRO	ND	10	10							
ORO	ND	10	10							
Surrogate: p-Terphenyl	*73.82*			*80.0000*		*92.3*	*58 - 172*			
LCS (B9G0412-BS1)						Prepared: 7/17/2019 Analyzed: 7/17/2019				
DRO	958.680	10	10	1000.00		95.9	71 - 165			
Surrogate: p-Terphenyl	*71.99*			*80.0000*		*90.0*	*58 - 172*			
Matrix Spike (B9G0412-MS1)			**Source: 1902695-08**			Prepared: 7/17/2019 Analyzed: 7/17/2019				
DRO	978.960	10	10	1000.00	ND	97.9	61 - 171			
Surrogate: p-Terphenyl	*82.46*			*80.0000*		*103*	*58 - 172*			
Matrix Spike Dup (B9G0412-MSD1)			**Source: 1902695-08**			Prepared: 7/17/2019 Analyzed: 7/17/2019				
DRO	995.610	10	10	1000.00	ND	99.6	61 - 171	1.69	20	
Surrogate: p-Terphenyl	*85.52*			*80.0000*		*107*	*58 - 172*			

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Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0438 - GCSEMI_PCB/PEST_S										
Blank (B9G0438-BLK1)							Prepared: 7/17/2019 Analyzed: 7/19/2019			
4,4′-DDD	ND	2.0	0.07							
4,4′-DDD [2C]	ND	2.0	0.07							
4,4′-DDE	ND	2.0	0.11							
4,4′-DDE [2C]	ND	2.0	0.11							
4,4′-DDT	ND	2.0	0.10							
4,4′-DDT [2C]	ND	2.0	0.10							
Aldrin	ND	1.0	0.12							
Aldrin [2C]	ND	1.0	0.12							
alpha-BHC	ND	1.0	0.11							
alpha-BHC [2C]	ND	1.0	0.11							
alpha-Chlordane	ND	1.0	0.12							
alpha-Chlordane [2C]	ND	1.0	0.12							
beta-BHC	ND	1.0	0.06							
beta-BHC [2C]	ND	1.0	0.06							
Chlordane	ND	8.5	1.1							
Chlordane [2C]	ND	8.5	1.1							
delta-BHC	ND	1.0	0.12							
delta-BHC [2C]	ND	1.0	0.12							
Dieldrin	ND	2.0	0.26							
Dieldrin [2C]	ND	2.0	0.26							
Endosulfan I	ND	1.0	0.10							
Endosulfan I [2C]	ND	1.0	0.10							
Endosulfan II	ND	2.0	0.15							
Endosulfan II [2C]	ND	2.0	0.15							
Endosulfan sulfate	ND	2.0	0.16							
Endosulfan Sulfate [2C]	ND	2.0	0.16							
Endrin	ND	2.0	0.14							
Endrin [2C]	ND	2.0	0.14							
Endrin aldehyde	ND	2.0	0.31							
Endrin aldehyde [2C]	ND	2.0	0.31							
Endrin ketone	ND	2.0	0.13							
Endrin ketone [2C]	ND	2.0	0.13							
gamma-BHC	ND	1.0	0.10							
gamma-BHC [2C]	ND	1.0	0.10							
gamma-Chlordane	ND	1.0	0.89							
gamma-Chlordane [2C]	ND	1.0	0.89							
Heptachlor	ND	1.0	0.12							
Heptachlor [2C]	ND	1.0	0.12							
Heptachlor epoxide	ND	1.0	0.09							
Heptachlor epoxide [2C]	ND	1.0	0.09							
Methoxychlor	ND	5.0	0.18							

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0438 - GCSEMI_PCB/PEST_S (continued)										
Blank (B9G0438-BLK1) - Continued					Prepared: 7/17/2019 Analyzed: 7/19/2019					
Methoxychlor [2C]	ND	5.0	0.18							
Toxaphene	ND	50	4.7							
Toxaphene [2C]	ND	50	4.7							
Surrogate: Decachlorobiphenyl	*13.61*			*16.6667*		*81.6*	*32 - 91*			
Surrogate: Decachlorobiphenyl [	*10.56*			*16.6667*		*63.4*	*32 - 91*			
Surrogate: Tetrachloro-m-xylene	*13.09*			*16.6667*		*78.5*	*38 - 93*			
Surrogate: Tetrachloro-m-xylene	*11.24*			*16.6667*		*67.5*	*38 - 93*			
LCS (B9G0438-BS1)					Prepared: 7/17/2019 Analyzed: 7/19/2019					
4,4′-DDD	18.5168	2.0	0.07	16.6667		111	66 - 112			
4,4′-DDD [2C]	15.3478	2.0	0.07	16.6667		92.1	66 - 112			
4,4′-DDE	17.7143	2.0	0.11	16.6667		106	62 - 112			
4,4′-DDE [2C]	15.0925	2.0	0.11	16.6667		90.6	62 - 112			
4,4′-DDT	11.5590	2.0	0.10	16.6667		69.4	48 - 90			
4,4′-DDT [2C]	14.2422	2.0	0.10	16.6667		85.5	48 - 90			
Aldrin	16.0897	1.0	0.12	16.6667		96.5	58 - 104			
Aldrin [2C]	15.0237	1.0	0.12	16.6667		90.1	58 - 104			
alpha-BHC	15.1378	1.0	0.11	16.6667		90.8	57 - 105			
alpha-BHC [2C]	14.7565	1.0	0.11	16.6667		88.5	57 - 105			
alpha-Chlordane	17.2858	1.0	0.12	16.6667		104	62 - 108			
alpha-Chlordane [2C]	15.2263	1.0	0.12	16.6667		91.4	62 - 108			
beta-BHC	15.6925	1.0	0.06	16.6667		94.2	59 - 106			
beta-BHC [2C]	16.7143	1.0	0.06	16.6667		100	59 - 106			
delta-BHC	12.5853	1.0	0.12	16.6667		75.5	63 - 115			
delta-BHC [2C]	12.4080	1.0	0.12	16.6667		74.4	63 - 115			
Dieldrin	16.1540	2.0	0.26	16.6667		96.9	59 - 102			
Dieldrin [2C]	14.1827	2.0	0.26	16.6667		85.1	59 - 102			
Endosulfan I	15.0642	1.0	0.10	16.6667		90.4	61 - 99			
Endosulfan I [2C]	14.5518	1.0	0.10	16.6667		87.3	61 - 99			
Endosulfan II	17.0920	2.0	0.15	16.6667		103	65 - 105			
Endosulfan II [2C]	15.0510	2.0	0.15	16.6667		90.3	65 - 105			
Endosulfan sulfate	15.4927	2.0	0.16	16.6667		93.0	59 - 107			
Endosulfan Sulfate [2C]	15.3935	2.0	0.16	16.6667		92.4	59 - 107			
Endrin	18.4832	2.0	0.14	16.6667		111	65 - 113			
Endrin [2C]	15.8308	2.0	0.14	16.6667		95.0	65 - 113			
Endrin aldehyde	16.2097	2.0	0.31	16.6667		97.3	61 - 109			
Endrin aldehyde [2C]	11.1223	2.0	0.31	16.6667		66.7	61 - 109			
Endrin ketone	15.3887	2.0	0.13	16.6667		92.3	56 - 97			
Endrin ketone [2C]	14.3770	2.0	0.13	16.6667		86.3	56 - 97			
gamma-BHC	15.6328	1.0	0.10	16.6667		93.8	57 - 101			
gamma-BHC [2C]	15.7518	1.0	0.10	16.6667		94.5	57 - 101			

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0438 - GCSEMI_PCB/PEST_S (continued)										
LCS (B9G0438-BS1) - Continued						Prepared: 7/17/2019 Analyzed: 7/19/2019				
gamma-Chlordane	16.5073	1.0	0.89	16.6667		99.0	56 - 125			
gamma-Chlordane [2C]	14.3403	1.0	0.89	16.6667		86.0	56 - 125			
Heptachlor	16.1335	1.0	0.12	16.6667		96.8	61 - 105			
Heptachlor [2C]	15.1195	1.0	0.12	16.6667		90.7	61 - 105			
Heptachlor epoxide	15.2798	1.0	0.09	16.6667		91.7	59 - 97			
Heptachlor epoxide [2C]	15.0722	1.0	0.09	16.6667		90.4	59 - 97			
Methoxychlor	16.8213	5.0	0.18	16.6667		101	68 - 118			
Methoxychlor [2C]	14.0903	5.0	0.18	16.6667		84.5	68 - 118			
Surrogate: Decachlorobiphenyl	*14.27*			*16.6667*		*85.6*	*32 - 91*			
Surrogate: Decachlorobiphenyl [	*10.85*			*16.6667*		*65.1*	*32 - 91*			
Surrogate: Tetrachloro-m-xylene	*14.28*			*16.6667*		*85.7*	*38 - 93*			
Surrogate: Tetrachloro-m-xylene	*14.12*			*16.6667*		*84.7*	*38 - 93*			
Matrix Spike (B9G0438-MS1)			**Source: 1902701-07**			Prepared: 7/17/2019 Analyzed: 7/19/2019				
4,4′-DDD	18.7937	2.0	0.07	16.6667	7.32633	68.8	33 - 116			
4,4′-DDD [2C]	14.8933	2.0	0.07	16.6667	5.95817	53.6	33 - 116			
4,4′-DDE	23.7347	2.0	0.11	16.6667	174.568	-905	29 - 128			M2
4,4′-DDE [2C]	18.7692	2.0	0.11	16.6667	142.305	-741	29 - 128			M2
4,4′-DDT	9.10883	2.0	0.10	16.6667	12.3787	-19.6	27 - 109			M2
4,4′-DDT [2C]	12.5948	2.0	0.10	16.6667	13.7020	-6.64	27 - 109			M2
Aldrin	17.1897	1.0	0.12	16.6667	ND	103	34 - 110			
Aldrin [2C]	13.9745	1.0	0.12	16.6667	ND	83.8	34 - 110			
alpha-BHC	16.6258	1.0	0.11	16.6667	ND	99.8	39 - 107			
alpha-BHC [2C]	14.0262	1.0	0.11	16.6667	ND	84.2	39 - 107			
alpha-Chlordane	17.7948	1.0	0.12	16.6667	ND	107	37 - 111			
alpha-Chlordane [2C]	14.6458	1.0	0.12	16.6667	ND	87.9	37 - 111			
beta-BHC	17.3162	1.0	0.06	16.6667	ND	104	33 - 111			
beta-BHC [2C]	15.8718	1.0	0.06	16.6667	ND	95.2	33 - 111			
delta-BHC	13.3080	1.0	0.12	16.6667	ND	79.8	25 - 122			
delta-BHC [2C]	11.7713	1.0	0.12	16.6667	ND	70.6	25 - 122			
Dieldrin	17.3552	2.0	0.26	16.6667	0.937667	98.5	28 - 114			
Dieldrin [2C]	13.4633	2.0	0.26	16.6667	0.873167	75.5	28 - 114			
Endosulfan I	15.4807	1.0	0.10	16.6667	ND	92.9	35 - 107			
Endosulfan I [2C]	13.6222	1.0	0.10	16.6667	ND	81.7	35 - 107			
Endosulfan II	19.7657	2.0	0.15	16.6667	ND	119	13 - 122			
Endosulfan II [2C]	14.9770	2.0	0.15	16.6667	ND	89.9	13 - 122			
Endosulfan sulfate	16.0070	2.0	0.16	16.6667	ND	96.0	13 - 120			
Endosulfan Sulfate [2C]	14.5925	2.0	0.16	16.6667	ND	87.6	13 - 120			
Endrin	18.8408	2.0	0.14	16.6667	ND	113	31 - 121			
Endrin [2C]	14.9203	2.0	0.14	16.6667	ND	89.5	31 - 121			
Endrin aldehyde	18.4918	2.0	0.31	16.6667	ND	111	18 - 129			

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0438 - GCSEMI_PCB/PEST_S (continued)										
Matrix Spike (B9G0438-MS1) - Continued			**Source: 1902701-07**			Prepared: 7/17/2019 Analyzed: 7/19/2019				
Endrin aldehyde [2C]	10.7360	2.0	0.31	16.6667	ND	64.4	18 - 129			
Endrin ketone	15.1267	2.0	0.13	16.6667	ND	90.8	14 - 113			
Endrin ketone [2C]	13.8230	2.0	0.13	16.6667	ND	82.9	14 - 113			
gamma-BHC	16.7947	1.0	0.10	16.6667	ND	101	34 - 104			
gamma-BHC [2C]	14.9667	1.0	0.10	16.6667	ND	89.8	34 - 104			
gamma-Chlordane	16.4898	1.0	0.89	16.6667	ND	98.9	35 - 121			
gamma-Chlordane [2C]	14.6572	1.0	0.89	16.6667	ND	87.9	35 - 121			
Heptachlor	15.3185	1.0	0.12	16.6667	ND	91.9	35 - 110			
Heptachlor [2C]	13.5673	1.0	0.12	16.6667	ND	81.4	35 - 110			
Heptachlor epoxide	16.0508	1.0	0.09	16.6667	ND	96.3	31 - 106			
Heptachlor epoxide [2C]	14.1408	1.0	0.09	16.6667	ND	84.8	31 - 106			
Methoxychlor	10.5758	5.0	0.18	16.6667	ND	63.5	21 - 128			
Methoxychlor [2C]	11.6932	5.0	0.18	16.6667	ND	70.2	21 - 128			
Surrogate: Decachlorobiphenyl	*15.02*			*16.6667*		*90.1*	*32 - 91*			
Surrogate: Decachlorobiphenyl [	*11.32*			*16.6667*		*67.9*	*32 - 91*			
Surrogate: Tetrachloro-m-xylene	*15.36*			*16.6667*		*92.2*	*38 - 93*			
Surrogate: Tetrachloro-m-xylene	*12.54*			*16.6667*		*75.2*	*38 - 93*			
Matrix Spike Dup (B9G0438-MSD1)			**Source: 1902701-07**			Prepared: 7/17/2019 Analyzed: 7/19/2019				
4,4′-DDD	18.1135	2.0	0.07	16.6667	7.32633	64.7	33 - 116	3.69	20	
4,4′-DDD [2C]	14.3800	2.0	0.07	16.6667	5.95817	50.5	33 - 116	3.51	20	
4,4′-DDE	23.4505	2.0	0.11	16.6667	174.568	-907	29 - 128	1.20	20	M2
4,4′-DDE [2C]	18.2907	2.0	0.11	16.6667	142.305	-744	29 - 128	2.58	20	M2
4,4′-DDT	9.42733	2.0	0.10	16.6667	12.3787	-17.7	27 - 109	3.44	20	M2
4,4′-DDT [2C]	12.5937	2.0	0.10	16.6667	13.7020	-6.65	27 - 109	0.00921	20	M2
Aldrin	17.0052	1.0	0.12	16.6667	ND	102	34 - 110	1.08	20	
Aldrin [2C]	13.7677	1.0	0.12	16.6667	ND	82.6	34 - 110	1.49	20	
alpha-BHC	16.5488	1.0	0.11	16.6667	ND	99.3	39 - 107	0.464	20	
alpha-BHC [2C]	13.9352	1.0	0.11	16.6667	ND	83.6	39 - 107	0.651	20	
alpha-Chlordane	17.4383	1.0	0.12	16.6667	ND	105	37 - 111	2.02	20	
alpha-Chlordane [2C]	14.3170	1.0	0.12	16.6667	ND	85.9	37 - 111	2.27	20	
beta-BHC	17.1032	1.0	0.06	16.6667	ND	103	33 - 111	1.24	20	
beta-BHC [2C]	15.6167	1.0	0.06	16.6667	ND	93.7	33 - 111	1.62	20	
delta-BHC	13.1440	1.0	0.12	16.6667	ND	78.9	25 - 122	1.24	20	
delta-BHC [2C]	11.5763	1.0	0.12	16.6667	ND	69.5	25 - 122	1.67	20	
Dieldrin	16.9285	2.0	0.26	16.6667	0.937667	95.9	28 - 114	2.49	20	
Dieldrin [2C]	13.0768	2.0	0.26	16.6667	0.873167	73.2	28 - 114	2.91	20	
Endosulfan I	15.1145	1.0	0.10	16.6667	ND	90.7	35 - 107	2.39	20	
Endosulfan I [2C]	13.1900	1.0	0.10	16.6667	ND	79.1	35 - 107	3.22	20	
Endosulfan II	18.9855	2.0	0.15	16.6667	ND	114	13 - 122	4.03	20	
Endosulfan II [2C]	14.4302	2.0	0.15	16.6667	ND	86.6	13 - 122	3.72	20	

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0438 - GCSEMI_PCB/PEST_S (continued)										
Matrix Spike Dup (B9G0438-MSD1) - Continued			**Source: 1902701-07**		Prepared: 7/17/2019 Analyzed: 7/19/2019					
Endosulfan sulfate	15.8758	2.0	0.16	16.6667	ND	95.3	13 - 120	0.823	20	
Endosulfan Sulfate [2C]	14.1390	2.0	0.16	16.6667	ND	84.8	13 - 120	3.16	20	
Endrin	18.3207	2.0	0.14	16.6667	ND	110	31 - 121	2.80	20	
Endrin [2C]	14.5155	2.0	0.14	16.6667	ND	87.1	31 - 121	2.75	20	
Endrin aldehyde	17.7112	2.0	0.31	16.6667	ND	106	18 - 129	4.31	20	
Endrin aldehyde [2C]	10.2563	2.0	0.31	16.6667	ND	61.5	18 - 129	4.57	20	
Endrin ketone	14.6612	2.0	0.13	16.6667	ND	88.0	14 - 113	3.13	20	
Endrin ketone [2C]	13.2250	2.0	0.13	16.6667	ND	79.3	14 - 113	4.42	20	
gamma-BHC	16.7212	1.0	0.10	16.6667	ND	100	34 - 104	0.439	20	
gamma-BHC [2C]	14.8468	1.0	0.10	16.6667	ND	89.1	34 - 104	0.804	20	
gamma-Chlordane	16.2083	1.0	0.89	16.6667	ND	97.2	35 - 121	1.72	20	
gamma-Chlordane [2C]	14.3418	1.0	0.89	16.6667	ND	86.1	35 - 121	2.17	20	
Heptachlor	15.4933	1.0	0.12	16.6667	ND	93.0	35 - 110	1.13	20	
Heptachlor [2C]	13.5925	1.0	0.12	16.6667	ND	81.6	35 - 110	0.185	20	
Heptachlor epoxide	15.8430	1.0	0.09	16.6667	ND	95.1	31 - 106	1.30	20	
Heptachlor epoxide [2C]	13.8640	1.0	0.09	16.6667	ND	83.2	31 - 106	1.98	20	
Methoxychlor	11.4137	5.0	0.18	16.6667	ND	68.5	21 - 128	7.62	20	
Methoxychlor [2C]	11.6255	5.0	0.18	16.6667	ND	69.8	21 - 128	0.580	20	
Surrogate: Decachlorobiphenyl	*13.70*			*16.6667*		*82.2*	*32 - 91*			
Surrogate: Decachlorobiphenyl [	*10.67*			*16.6667*		*64.0*	*32 - 91*			
Surrogate: Tetrachloro-m-xylene	*15.08*			*16.6667*		*90.5*	*38 - 93*			
Surrogate: Tetrachloro-m-xylene	*12.45*			*16.6667*		*74.7*	*38 - 93*			

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Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0439 - GCSEMI_PCB/PEST_S										
Blank (B9G0439-BLK1)							Prepared: 7/17/2019 Analyzed: 7/19/2019			
4,4′-DDD	ND	2.0	0.07							
4,4′-DDD [2C]	ND	2.0	0.07							
4,4′-DDE	ND	2.0	0.11							
4,4′-DDE [2C]	ND	2.0	0.11							
4,4′-DDT	ND	2.0	0.10							
4,4′-DDT [2C]	ND	2.0	0.10							
Aldrin	ND	1.0	0.12							
Aldrin [2C]	ND	1.0	0.12							
alpha-BHC	ND	1.0	0.11							
alpha-BHC [2C]	ND	1.0	0.11							
alpha-Chlordane	ND	1.0	0.12							
alpha-Chlordane [2C]	ND	1.0	0.12							
beta-BHC	ND	1.0	0.06							
beta-BHC [2C]	ND	1.0	0.06							
Chlordane	ND	8.5	1.1							
Chlordane [2C]	ND	8.5	1.1							
delta-BHC	ND	1.0	0.12							
delta-BHC [2C]	ND	1.0	0.12							
Dieldrin	ND	2.0	0.26							
Dieldrin [2C]	ND	2.0	0.26							
Endosulfan I	ND	1.0	0.10							
Endosulfan I [2C]	ND	1.0	0.10							
Endosulfan II	ND	2.0	0.15							
Endosulfan II [2C]	ND	2.0	0.15							
Endosulfan sulfate	ND	2.0	0.16							
Endosulfan Sulfate [2C]	ND	2.0	0.16							
Endrin	ND	2.0	0.14							
Endrin [2C]	ND	2.0	0.14							
Endrin aldehyde	ND	2.0	0.31							
Endrin aldehyde [2C]	ND	2.0	0.31							
Endrin ketone	ND	2.0	0.13							
Endrin ketone [2C]	ND	2.0	0.13							
gamma-BHC	ND	1.0	0.10							
gamma-BHC [2C]	ND	1.0	0.10							
gamma-Chlordane	ND	1.0	0.89							
gamma-Chlordane [2C]	ND	1.0	0.89							
Heptachlor	ND	1.0	0.12							
Heptachlor [2C]	ND	1.0	0.12							
Heptachlor epoxide	ND	1.0	0.09							
Heptachlor epoxide [2C]	ND	1.0	0.09							
Methoxychlor	ND	5.0	0.18							

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0439 - GCSEMI_PCB/PEST_S (continued)										
Blank (B9G0439-BLK1) - Continued					Prepared: 7/17/2019 Analyzed: 7/19/2019					
Methoxychlor [2C]	ND	5.0	0.18							
Toxaphene	ND	50	4.7							
Toxaphene [2C]	ND	50	4.7							
Surrogate: Decachlorobiphenyl	*11.63*			*16.6667*		*69.8*	*32 - 91*			
Surrogate: Decachlorobiphenyl [	*10.24*			*16.6667*		*61.5*	*32 - 91*			
Surrogate: Tetrachloro-m-xylene	*12.78*			*16.6667*		*76.7*	*38 - 93*			
Surrogate: Tetrachloro-m-xylene	*11.45*			*16.6667*		*68.7*	*38 - 93*			
LCS (B9G0439-BS1)					Prepared: 7/17/2019 Analyzed: 7/19/2019					
4,4′-DDD	17.7670	2.0	0.07	16.6667		107	66 - 112			
4,4′-DDD [2C]	15.4550	2.0	0.07	16.6667		92.7	66 - 112			
4,4′-DDE	17.3333	2.0	0.11	16.6667		104	62 - 112			
4,4′-DDE [2C]	14.6630	2.0	0.11	16.6667		88.0	62 - 112			
4,4′-DDT	11.7227	2.0	0.10	16.6667		70.3	48 - 90			
4,4′-DDT [2C]	11.5525	2.0	0.10	16.6667		69.3	48 - 90			
Aldrin	16.8682	1.0	0.12	16.6667		101	58 - 104			
Aldrin [2C]	15.0945	1.0	0.12	16.6667		90.6	58 - 104			
alpha-BHC	15.9113	1.0	0.11	16.6667		95.5	57 - 105			
alpha-BHC [2C]	15.1193	1.0	0.11	16.6667		90.7	57 - 105			
alpha-Chlordane	16.9143	1.0	0.12	16.6667		101	62 - 108			
alpha-Chlordane [2C]	15.2980	1.0	0.12	16.6667		91.8	62 - 108			
beta-BHC	15.7047	1.0	0.06	16.6667		94.2	59 - 106			
beta-BHC [2C]	16.1185	1.0	0.06	16.6667		96.7	59 - 106			
delta-BHC	15.2363	1.0	0.12	16.6667		91.4	63 - 115			
delta-BHC [2C]	14.6048	1.0	0.12	16.6667		87.6	63 - 115			
Dieldrin	16.4968	2.0	0.26	16.6667		99.0	59 - 102			
Dieldrin [2C]	14.0397	2.0	0.26	16.6667		84.2	59 - 102			
Endosulfan I	15.4452	1.0	0.10	16.6667		92.7	61 - 99			
Endosulfan I [2C]	13.9915	1.0	0.10	16.6667		83.9	61 - 99			
Endosulfan II	17.2892	2.0	0.15	16.6667		104	65 - 105			
Endosulfan II [2C]	14.6802	2.0	0.15	16.6667		88.1	65 - 105			
Endosulfan sulfate	15.5273	2.0	0.16	16.6667		93.2	59 - 107			
Endosulfan Sulfate [2C]	14.3377	2.0	0.16	16.6667		86.0	59 - 107			
Endrin	17.3258	2.0	0.14	16.6667		104	65 - 113			
Endrin [2C]	14.7322	2.0	0.14	16.6667		88.4	65 - 113			
Endrin aldehyde	16.6537	2.0	0.31	16.6667		99.9	61 - 109			
Endrin aldehyde [2C]	14.6287	2.0	0.31	16.6667		87.8	61 - 109			
Endrin ketone	14.6783	2.0	0.13	16.6667		88.1	56 - 97			
Endrin ketone [2C]	13.1758	2.0	0.13	16.6667		79.1	56 - 97			
gamma-BHC	16.1913	1.0	0.10	16.6667		97.1	57 - 101			
gamma-BHC [2C]	16.0312	1.0	0.10	16.6667		96.2	57 - 101			

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0439 - GCSEMI_PCB/PEST_S (continued)										
LCS (B9G0439-BS1) - Continued					Prepared: 7/17/2019 Analyzed: 7/19/2019					
gamma-Chlordane	15.8322	1.0	0.89	16.6667		95.0	56 - 125			
gamma-Chlordane [2C]	15.3000	1.0	0.89	16.6667		91.8	56 - 125			
Heptachlor	16.0853	1.0	0.12	16.6667		96.5	61 - 105			
Heptachlor [2C]	14.9427	1.0	0.12	16.6667		89.7	61 - 105			
Heptachlor epoxide	15.5790	1.0	0.09	16.6667		93.5	59 - 97			
Heptachlor epoxide [2C]	14.7507	1.0	0.09	16.6667		88.5	59 - 97			
Methoxychlor	12.4158	5.0	0.18	16.6667		74.5	68 - 118			
Methoxychlor [2C]	11.5155	5.0	0.18	16.6667		69.1	68 - 118			
Surrogate: Decachlorobiphenyl	*13.43*			*16.6667*		*80.6*	*32 - 91*			
Surrogate: Decachlorobiphenyl [	*11.24*			*16.6667*		*67.4*	*32 - 91*			
Surrogate: Tetrachloro-m-xylene	*14.71*			*16.6667*		*88.3*	*38 - 93*			
Surrogate: Tetrachloro-m-xylene	*13.54*			*16.6667*		*81.2*	*38 - 93*			
Matrix Spike (B9G0439-MS1)			**Source: 1902701-27**		Prepared: 7/17/2019 Analyzed: 7/20/2019					
4,4′-DDD	19.8567	2.0	0.07	16.6667	ND	119	33 - 116			M2
4,4′-DDD [2C]	15.8900	2.0	0.07	16.6667	ND	95.3	33 - 116			
4,4′-DDE	20.3983	2.0	0.11	16.6667	2.27700	109	29 - 128			
4,4′-DDE [2C]	16.6150	2.0	0.11	16.6667	1.77983	89.0	29 - 128			
4,4′-DDT	9.49500	2.0	0.10	16.6667	ND	57.0	27 - 109			
4,4′-DDT [2C]	11.2987	2.0	0.10	16.6667	ND	67.8	27 - 109			
Aldrin	17.3458	1.0	0.12	16.6667	ND	104	34 - 110			
Aldrin [2C]	15.1528	1.0	0.12	16.6667	ND	90.9	34 - 110			
alpha-BHC	16.9048	1.0	0.11	16.6667	ND	101	39 - 107			
alpha-BHC [2C]	15.6773	1.0	0.11	16.6667	ND	94.1	39 - 107			
alpha-Chlordane	17.5808	1.0	0.12	16.6667	ND	105	37 - 111			
alpha-Chlordane [2C]	15.5007	1.0	0.12	16.6667	ND	93.0	37 - 111			
beta-BHC	16.9088	1.0	0.06	16.6667	ND	101	33 - 111			
beta-BHC [2C]	17.2392	1.0	0.06	16.6667	ND	103	33 - 111			
delta-BHC	13.5838	1.0	0.12	16.6667	ND	81.5	25 - 122			
delta-BHC [2C]	12.6110	1.0	0.12	16.6667	ND	75.7	25 - 122			
Dieldrin	17.4127	2.0	0.26	16.6667	ND	104	28 - 114			
Dieldrin [2C]	13.9978	2.0	0.26	16.6667	ND	84.0	28 - 114			
Endosulfan I	15.5480	1.0	0.10	16.6667	ND	93.3	35 - 107			
Endosulfan I [2C]	14.2523	1.0	0.10	16.6667	ND	85.5	35 - 107			
Endosulfan II	19.0378	2.0	0.15	16.6667	ND	114	13 - 122			
Endosulfan II [2C]	15.4970	2.0	0.15	16.6667	ND	93.0	13 - 122			
Endosulfan sulfate	15.5248	2.0	0.16	16.6667	ND	93.1	13 - 120			
Endosulfan Sulfate [2C]	14.7433	2.0	0.16	16.6667	ND	88.5	13 - 120			
Endrin	19.0072	2.0	0.14	16.6667	ND	114	31 - 121			
Endrin [2C]	15.3702	2.0	0.14	16.6667	ND	92.2	31 - 121			
Endrin aldehyde	17.9252	2.0	0.31	16.6667	ND	108	18 - 129			

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0439 - GCSEMI_PCB/PEST_S (continued)										
Matrix Spike (B9G0439-MS1) - Continued			**Source: 1902701-27**			Prepared: 7/17/2019 Analyzed: 7/20/2019				
Endrin aldehyde [2C]	11.7143	2.0	0.31	16.6667	ND	70.3	18 - 129			
Endrin ketone	16.5505	2.0	0.13	16.6667	ND	99.3	14 - 113			
Endrin ketone [2C]	14.5133	2.0	0.13	16.6667	ND	87.1	14 - 113			
gamma-BHC	16.7115	1.0	0.10	16.6667	ND	100	34 - 104			
gamma-BHC [2C]	16.6932	1.0	0.10	16.6667	ND	100	34 - 104			
gamma-Chlordane	16.5428	1.0	0.89	16.6667	ND	99.3	35 - 121			
gamma-Chlordane [2C]	15.2198	1.0	0.89	16.6667	ND	91.3	35 - 121			
Heptachlor	17.0118	1.0	0.12	16.6667	ND	102	35 - 110			
Heptachlor [2C]	15.3057	1.0	0.12	16.6667	ND	91.8	35 - 110			
Heptachlor epoxide	16.2450	1.0	0.09	16.6667	ND	97.5	31 - 106			
Heptachlor epoxide [2C]	14.6448	1.0	0.09	16.6667	ND	87.9	31 - 106			
Methoxychlor	15.4068	5.0	0.18	16.6667	ND	92.4	21 - 128			
Methoxychlor [2C]	12.0215	5.0	0.18	16.6667	ND	72.1	21 - 128			
Surrogate: Decachlorobiphenyl	*13.22*			*16.6667*		*79.3*	*32 - 91*			
Surrogate: Decachlorobiphenyl [	*10.82*			*16.6667*		*64.9*	*32 - 91*			
Surrogate: Tetrachloro-m-xylene	*14.90*			*16.6667*		*89.4*	*38 - 93*			
Surrogate: Tetrachloro-m-xylene	*13.52*			*16.6667*		*81.1*	*38 - 93*			
Matrix Spike Dup (B9G0439-MSD1)			**Source: 1902701-27**			Prepared: 7/17/2019 Analyzed: 7/20/2019				
4,4′-DDD	20.6958	2.0	0.07	16.6667	ND	124	33 - 116	4.14	20	M2
4,4′-DDD [2C]	16.7127	2.0	0.07	16.6667	ND	100	33 - 116	5.05	20	
4,4′-DDE	21.2712	2.0	0.11	16.6667	2.27700	114	29 - 128	4.19	20	
4,4′-DDE [2C]	17.3682	2.0	0.11	16.6667	1.77983	93.5	29 - 128	4.43	20	
4,4′-DDT	10.0073	2.0	0.10	16.6667	ND	60.0	27 - 109	5.25	20	
4,4′-DDT [2C]	12.1173	2.0	0.10	16.6667	ND	72.7	27 - 109	6.99	20	
Aldrin	18.2317	1.0	0.12	16.6667	ND	109	34 - 110	4.98	20	
Aldrin [2C]	15.8142	1.0	0.12	16.6667	ND	94.9	34 - 110	4.27	20	
alpha-BHC	17.8682	1.0	0.11	16.6667	ND	107	39 - 107	5.54	20	
alpha-BHC [2C]	16.4602	1.0	0.11	16.6667	ND	98.8	39 - 107	4.87	20	
alpha-Chlordane	18.3812	1.0	0.12	16.6667	ND	110	37 - 111	4.45	20	
alpha-Chlordane [2C]	16.2282	1.0	0.12	16.6667	ND	97.4	37 - 111	4.59	20	
beta-BHC	17.8918	1.0	0.06	16.6667	ND	107	33 - 111	5.65	20	
beta-BHC [2C]	18.0490	1.0	0.06	16.6667	ND	108	33 - 111	4.59	20	
delta-BHC	14.2743	1.0	0.12	16.6667	ND	85.6	25 - 122	4.96	20	
delta-BHC [2C]	13.2527	1.0	0.12	16.6667	ND	79.5	25 - 122	4.96	20	
Dieldrin	18.2507	2.0	0.26	16.6667	ND	110	28 - 114	4.70	20	
Dieldrin [2C]	14.6472	2.0	0.26	16.6667	ND	87.9	28 - 114	4.53	20	
Endosulfan I	16.2055	1.0	0.10	16.6667	ND	97.2	35 - 107	4.14	20	
Endosulfan I [2C]	14.9175	1.0	0.10	16.6667	ND	89.5	35 - 107	4.56	20	
Endosulfan II	19.8775	2.0	0.15	16.6667	ND	119	13 - 122	4.32	20	
Endosulfan II [2C]	16.2115	2.0	0.15	16.6667	ND	97.3	13 - 122	4.51	20	

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0439 - GCSEMI_PCB/PEST_S (continued)										
Matrix Spike Dup (B9G0439-MSD1) - Continued			**Source: 1902701-27**		Prepared: 7/17/2019 Analyzed: 7/20/2019					
Endosulfan sulfate	15.7472	2.0	0.16	16.6667	ND	94.5	13 - 120	1.42	20	
Endosulfan Sulfate [2C]	15.7248	2.0	0.16	16.6667	ND	94.3	13 - 120	6.44	20	
Endrin	20.1555	2.0	0.14	16.6667	ND	121	31 - 121	5.86	20	
Endrin [2C]	16.1083	2.0	0.14	16.6667	ND	96.6	31 - 121	4.69	20	
Endrin aldehyde	18.1368	2.0	0.31	16.6667	ND	109	18 - 129	1.17	20	
Endrin aldehyde [2C]	12.0767	2.0	0.31	16.6667	ND	72.5	18 - 129	3.05	20	
Endrin ketone	16.5633	2.0	0.13	16.6667	ND	99.4	14 - 113	0.0775	20	
Endrin ketone [2C]	15.2050	2.0	0.13	16.6667	ND	91.2	14 - 113	4.65	20	
gamma-BHC	17.6785	1.0	0.10	16.6667	ND	106	34 - 104	5.62	20	M2
gamma-BHC [2C]	17.4697	1.0	0.10	16.6667	ND	105	34 - 104	4.55	20	M2
gamma-Chlordane	17.3052	1.0	0.89	16.6667	ND	104	35 - 121	4.50	20	
gamma-Chlordane [2C]	15.9677	1.0	0.89	16.6667	ND	95.8	35 - 121	4.80	20	
Heptachlor	17.9237	1.0	0.12	16.6667	ND	108	35 - 110	5.22	20	
Heptachlor [2C]	16.0233	1.0	0.12	16.6667	ND	96.1	35 - 110	4.58	20	
Heptachlor epoxide	17.0475	1.0	0.09	16.6667	ND	102	31 - 106	4.82	20	
Heptachlor epoxide [2C]	15.3390	1.0	0.09	16.6667	ND	92.0	31 - 106	4.63	20	
Methoxychlor	13.6777	5.0	0.18	16.6667	ND	82.1	21 - 128	11.9	20	
Methoxychlor [2C]	12.7380	5.0	0.18	16.6667	ND	76.4	21 - 128	5.79	20	
Surrogate: Decachlorobiphenyl	*13.10*			*16.6667*		*78.6*	*32 - 91*			
Surrogate: Decachlorobiphenyl [	*10.50*			*16.6667*		*63.0*	*32 - 91*			
Surrogate: Tetrachloro-m-xylene	*15.42*			*16.6667*		*92.5*	*38 - 93*			
Surrogate: Tetrachloro-m-xylene	*13.76*			*16.6667*		*82.6*	*38 - 93*			

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Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0428 - MSVOA_S										
Blank (B9G0428-BLK1)					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,1,1,2-Tetrachloroethane	ND	5.0	0.96							
1,1,1-Trichloroethane	ND	5.0	1.1							
1,1,2,2-Tetrachloroethane	ND	5.0	0.62							
1,1,2-Trichloroethane	ND	5.0	1.6							
1,1-Dichloroethane	ND	5.0	0.81							
1,1-Dichloroethene	ND	5.0	2.6							
1,1-Dichloropropene	ND	5.0	2.3							
1,2,3-Trichloropropane	ND	5.0	0.54							
1,2,3-Trichlorobenzene	ND	5.0	1.2							
1,2,4-Trichlorobenzene	ND	5.0	1.1							
1,2,4-Trimethylbenzene	ND	5.0	1.5							
1,2-Dibromo-3-chloropropane	ND	10	1.6							
1,2-Dibromoethane	ND	5.0	3.2							
1,2-Dichlorobenzene	ND	5.0	1.1							
1,2-Dichloroethane	ND	5.0	1.2							
1,2-Dichloropropane	ND	5.0	1.8							
1,3,5-Trimethylbenzene	ND	5.0	1.7							
1,3-Dichlorobenzene	ND	5.0	1.3							
1,3-Dichloropropane	ND	5.0	1.1							
1,4-Dichlorobenzene	ND	5.0	1.2							
2,2-Dichloropropane	ND	5.0	1.2							
2-Chlorotoluene	ND	5.0	1.6							
4-Chlorotoluene	ND	5.0	1.5							
4-Isopropyltoluene	ND	5.0	2.3							
Benzene	ND	5.0	0.64							
Bromobenzene	ND	5.0	1.1							
Bromochloromethane	ND	5.0	0.64							
Bromodichloromethane	ND	5.0	1.2							
Bromoform	ND	5.0	0.80							
Bromomethane	ND	5.0	2.5							
Carbon disulfide	ND	5.0	3.5							
Carbon tetrachloride	ND	5.0	1.2							
Chlorobenzene	ND	5.0	1.0							
Chloroethane	ND	5.0	1.1							
Chloroform	ND	5.0	0.82							
Chloromethane	ND	5.0	1.4							
cis-1,2-Dichloroethene	ND	5.0	0.67							
cis-1,3-Dichloropropene	ND	5.0	1.9							
Di-isopropyl ether	ND	5.0	0.55							
Dibromochloromethane	ND	5.0	1.0							
Dibromomethane	ND	5.0	1.6							

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0428 - MSVOA_S (continued)										
Blank (B9G0428-BLK1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
Dichlorodifluoromethane	ND	5.0	2.2							
Ethyl Acetate	ND	50	8.1							
Ethyl Ether	ND	50	6.1							
Ethyl tert-butyl ether	ND	5.0	0.67							
Ethylbenzene	ND	5.0	0.91							
Freon-113	ND	5.0	2.8							
Hexachlorobutadiene	ND	5.0	2.5							
Isopropylbenzene	ND	5.0	1.8							
m,p-Xylene	ND	10	1.5							
Methylene chloride	ND	5.0	2.3							
MTBE	ND	5.0	0.63							
n-Butylbenzene	ND	5.0	2.4							
n-Propylbenzene	ND	5.0	2.2							
Naphthalene	ND	5.0	0.97							
o-Xylene	ND	5.0	0.87							
sec-Butylbenzene	ND	5.0	2.3							
Styrene	ND	5.0	1.5							
tert-Amyl methyl ether	ND	5.0	0.59							
tert-Butanol	ND	100	19							
tert-Butylbenzene	ND	5.0	2.0							
Tetrachloroethene	ND	5.0	1.6							
Toluene	ND	5.0	0.94							
trans-1,2-Dichloroethene	ND	5.0	0.59							
trans-1,3-Dichloropropene	ND	5.0	2.1							
Trichloroethene	ND	5.0	3.1							
Trichlorofluoromethane	ND	5.0	1.4							
Vinyl acetate	ND	50	9.8							
Vinyl chloride	ND	5.0	1.7							
Surrogate: 1,2-Dichloroethane-d4	*47.66*			*50.0000*		*95.3*	*60 - 145*			
Surrogate: 4-Bromofluorobenzene	*48.64*			*50.0000*		*97.3*	*68 - 121*			
Surrogate: Dibromofluoromethan	*49.04*			*50.0000*		*98.1*	*65 - 137*			
Surrogate: Toluene-d8	*48.93*			*50.0000*		*97.9*	*82 - 119*			
LCS (B9G0428-BS1)					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,1,1,2-Tetrachloroethane	48.0800	5.0	0.96	50.0000		96.2	82 - 114			
1,1,1-Trichloroethane	51.6600	5.0	1.1	50.0000		103	70 - 121			
1,1,2,2-Tetrachloroethane	49.2900	5.0	0.62	50.0000		98.6	65 - 116			
1,1,2-Trichloroethane	47.6300	5.0	1.6	50.0000		95.3	73 - 114			
1,1-Dichloroethane	50.1300	5.0	0.81	50.0000		100	69 - 117			
1,1-Dichloroethene	50.0100	5.0	2.6	50.0000		100	57 - 128			
1,1-Dichloropropene	57.0300	5.0	2.3	50.0000		114	76 - 122			

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0428 - MSVOA_S (continued)										
LCS (B9G0428-BS1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,2,3-Trichloropropane	50.8600	5.0	0.54	50.0000		102	65 - 116			
1,2,3-Trichlorobenzene	46.0000	5.0	1.2	50.0000		92.0	72 - 130			
1,2,4-Trichlorobenzene	48.7600	5.0	1.1	50.0000		97.5	74 - 141			
1,2,4-Trimethylbenzene	50.0900	5.0	1.5	50.0000		100	81 - 126			
1,2-Dibromo-3-chloropropane	46.9400	10	1.6	50.0000		93.9	63 - 126			
1,2-Dibromoethane	46.6000	5.0	3.2	50.0000		93.2	75 - 113			
1,2-Dichlorobenzene	45.9900	5.0	1.1	50.0000		92.0	83 - 114			
1,2-Dichloroethane	49.2500	5.0	1.2	50.0000		98.5	73 - 115			
1,2-Dichloropropane	50.3600	5.0	1.8	50.0000		101	75 - 117			
1,3,5-Trimethylbenzene	51.5000	5.0	1.7	50.0000		103	80 - 126			
1,3-Dichlorobenzene	46.7900	5.0	1.3	50.0000		93.6	83 - 113			
1,3-Dichloropropane	49.2400	5.0	1.1	50.0000		98.5	79 - 108			
1,4-Dichlorobenzene	45.7700	5.0	1.2	50.0000		91.5	82 - 114			
2,2-Dichloropropane	51.7200	5.0	1.2	50.0000		103	66 - 135			
2-Chlorotoluene	49.8800	5.0	1.6	50.0000		99.8	79 - 117			
4-Chlorotoluene	50.1100	5.0	1.5	50.0000		100	77 - 118			
4-Isopropyltoluene	53.7300	5.0	2.3	50.0000		107	81 - 129			
Benzene	103.290	5.0	0.64	100.000		103	78 - 112			
Bromobenzene	45.9800	5.0	1.1	50.0000		92.0	79 - 111			
Bromochloromethane	43.7100	5.0	0.64	50.0000		87.4	69 - 116			
Bromodichloromethane	47.7200	5.0	1.2	50.0000		95.4	79 - 111			
Bromoform	44.6100	5.0	0.80	50.0000		89.2	75 - 119			
Bromomethane	59.1900	5.0	2.5	50.0000		118	31 - 168			
Carbon disulfide	53.0400	5.0	3.5	50.0000		106	54 - 141			
Carbon tetrachloride	55.5700	5.0	1.2	50.0000		111	74 - 125			
Chlorobenzene	49.4200	5.0	1.0	50.0000		98.8	83 - 112			
Chloroethane	59.4800	5.0	1.1	50.0000		119	53 - 144			
Chloroform	47.6700	5.0	0.82	50.0000		95.3	69 - 118			
Chloromethane	59.1100	5.0	1.4	50.0000		118	46 - 137			
cis-1,2-Dichloroethene	46.9400	5.0	0.67	50.0000		93.9	68 - 118			
cis-1,3-Dichloropropene	55.7900	5.0	1.9	50.0000		112	77 - 121			
Di-isopropyl ether	49.5200	5.0	0.55	50.0000		99.0	60 - 129			
Dibromochloromethane	46.9500	5.0	1.0	50.0000		93.9	80 - 111			
Dibromomethane	47.1000	5.0	1.6	50.0000		94.2	78 - 108			
Dichlorodifluoromethane	66.0900	5.0	2.2	50.0000		132	41 - 146			
Ethyl Acetate	538.800	50	8.1	500.000		108	52 - 130			
Ethyl Ether	414.770	50	6.1	500.000		83.0	54 - 138			
Ethyl tert-butyl ether	52.8400	5.0	0.67	50.0000		106	52 - 141			
Ethylbenzene	100.890	5.0	0.91	100.000		101	82 - 121			
Freon-113	54.6900	5.0	2.8	50.0000		109	59 - 139			
Hexachlorobutadiene	51.5000	5.0	2.5	50.0000		103	69 - 143			
Isopropylbenzene	55.6600	5.0	1.8	50.0000		111	78 - 124			

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0428 - MSVOA_S (continued)										
LCS (B9G0428-BS1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
m,p-Xylene	105.680	10	1.5	100.000		106	85 - 118			
Methylene chloride	37.4500	5.0	2.3	50.0000		74.9	44 - 146			
MTBE	45.0000	5.0	0.63	50.0000		90.0	61 - 122			
n-Butylbenzene	55.3500	5.0	2.4	50.0000		111	78 - 135			
n-Propylbenzene	52.5400	5.0	2.2	50.0000		105	78 - 127			
Naphthalene	46.8800	5.0	0.97	50.0000		93.8	68 - 129			
o-Xylene	102.180	5.0	0.87	100.000		102	86 - 118			
sec-Butylbenzene	54.1500	5.0	2.3	50.0000		108	80 - 127			
Styrene	49.9600	5.0	1.5	50.0000		99.9	85 - 117			
tert-Amyl methyl ether	50.5700	5.0	0.59	50.0000		101	48 - 135			
tert-Butanol	78.1600	100	19	250.000		31.3	0 - 175			
tert-Butylbenzene	53.0500	5.0	2.0	50.0000		106	81 - 122			
Tetrachloroethene	53.7300	5.0	1.6	50.0000		107	77 - 122			
Toluene	100.580	5.0	0.94	100.000		101	79 - 114			
trans-1,2-Dichloroethene	42.6400	5.0	0.59	50.0000		85.3	66 - 125			
trans-1,3-Dichloropropene	48.6900	5.0	2.1	50.0000		97.4	76 - 120			
Trichloroethene	52.1100	5.0	3.1	50.0000		104	79 - 117			
Trichlorofluoromethane	54.6500	5.0	1.4	50.0000		109	55 - 133			
Vinyl acetate	478.740	50	9.8	500.000		95.7	52 - 141			
Vinyl chloride	60.6900	5.0	1.7	50.0000		121	58 - 132			
Surrogate: 1,2-Dichloroethane-d4	*47.06*			*50.0000*		*94.1*	*60 - 145*			
Surrogate: 4-Bromofluorobenzene	*51.05*			*50.0000*		*102*	*68 - 121*			
Surrogate: Dibromofluoromethan	*46.25*			*50.0000*		*92.5*	*65 - 137*			
Surrogate: Toluene-d8	*49.63*			*50.0000*		*99.3*	*82 - 119*			
LCS Dup (B9G0428-BSD1)					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,1,1,2-Tetrachloroethane	41.8100	5.0	0.96	50.0000		83.6	82 - 114	14.0	20	
1,1,1-Trichloroethane	43.6500	5.0	1.1	50.0000		87.3	70 - 121	16.8	20	
1,1,2,2-Tetrachloroethane	45.4200	5.0	0.62	50.0000		90.8	65 - 116	8.17	20	
1,1,2-Trichloroethane	42.1100	5.0	1.6	50.0000		84.2	73 - 114	12.3	20	
1,1-Dichloroethane	44.0900	5.0	0.81	50.0000		88.2	69 - 117	12.8	20	
1,1-Dichloroethene	42.7300	5.0	2.6	50.0000		85.5	57 - 128	15.7	20	
1,1-Dichloropropene	47.5000	5.0	2.3	50.0000		95.0	76 - 122	18.2	20	
1,2,3-Trichloropropane	45.9900	5.0	0.54	50.0000		92.0	65 - 116	10.1	20	
1,2,3-Trichlorobenzene	41.6700	5.0	1.2	50.0000		83.3	72 - 130	9.88	20	
1,2,4-Trichlorobenzene	43.4400	5.0	1.1	50.0000		86.9	74 - 141	11.5	20	
1,2,4-Trimethylbenzene	43.6400	5.0	1.5	50.0000		87.3	81 - 126	13.8	20	
1,2-Dibromo-3-chloropropane	44.0500	10	1.6	50.0000		88.1	63 - 126	6.35	20	
1,2-Dibromoethane	41.6600	5.0	3.2	50.0000		83.3	75 - 113	11.2	20	
1,2-Dichlorobenzene	41.1700	5.0	1.1	50.0000		82.3	83 - 114	11.1	20	L3
1,2-Dichloroethane	44.0600	5.0	1.2	50.0000		88.1	73 - 115	11.1	20	

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0428 - MSVOA_S (continued)										
LCS Dup (B9G0428-BSD1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,2-Dichloropropane	44.1100	5.0	1.8	50.0000		88.2	75 - 117	13.2	20	
1,3,5-Trimethylbenzene	44.2000	5.0	1.7	50.0000		88.4	80 - 126	15.3	20	
1,3-Dichlorobenzene	41.1900	5.0	1.3	50.0000		82.4	83 - 113	12.7	20	L3
1,3-Dichloropropane	43.3500	5.0	1.1	50.0000		86.7	79 - 108	12.7	20	
1,4-Dichlorobenzene	40.8400	5.0	1.2	50.0000		81.7	82 - 114	11.4	20	L3
2,2-Dichloropropane	43.8900	5.0	1.2	50.0000		87.8	66 - 135	16.4	20	
2-Chlorotoluene	43.9100	5.0	1.6	50.0000		87.8	79 - 117	12.7	20	
4-Chlorotoluene	43.4700	5.0	1.5	50.0000		86.9	77 - 118	14.2	20	
4-Isopropyltoluene	45.8200	5.0	2.3	50.0000		91.6	81 - 129	15.9	20	
Benzene	89.2000	5.0	0.64	100.000		89.2	78 - 112	14.6	20	
Bromobenzene	40.9200	5.0	1.1	50.0000		81.8	79 - 111	11.6	20	
Bromochloromethane	39.4900	5.0	0.64	50.0000		79.0	69 - 116	10.1	20	
Bromodichloromethane	42.2400	5.0	1.2	50.0000		84.5	79 - 111	12.2	20	
Bromoform	39.1600	5.0	0.80	50.0000		78.3	75 - 119	13.0	20	
Bromomethane	49.4200	5.0	2.5	50.0000		98.8	31 - 168	18.0	20	
Carbon disulfide	46.0200	5.0	3.5	50.0000		92.0	54 - 141	14.2	20	
Carbon tetrachloride	46.0200	5.0	1.2	50.0000		92.0	74 - 125	18.8	20	
Chlorobenzene	42.9700	5.0	1.0	50.0000		85.9	83 - 112	14.0	20	
Chloroethane	49.0800	5.0	1.1	50.0000		98.2	53 - 144	19.2	20	
Chloroform	41.6700	5.0	0.82	50.0000		83.3	69 - 118	13.4	20	
Chloromethane	49.5800	5.0	1.4	50.0000		99.2	46 - 137	17.5	20	
cis-1,2-Dichloroethene	41.0600	5.0	0.67	50.0000		82.1	68 - 118	13.4	20	
cis-1,3-Dichloropropene	49.2000	5.0	1.9	50.0000		98.4	77 - 121	12.6	20	
Di-isopropyl ether	43.2500	5.0	0.55	50.0000		86.5	60 - 129	13.5	20	
Dibromochloromethane	41.7300	5.0	1.0	50.0000		83.5	80 - 111	11.8	20	
Dibromomethane	42.2400	5.0	1.6	50.0000		84.5	78 - 108	10.9	20	
Dichlorodifluoromethane	54.8900	5.0	2.2	50.0000		110	41 - 146	18.5	20	
Ethyl Acetate	475.790	50	8.1	500.000		95.2	52 - 130	12.4	20	
Ethyl Ether	384.310	50	6.1	500.000		76.9	54 - 138	7.62	20	
Ethyl tert-butyl ether	47.2100	5.0	0.67	50.0000		94.4	52 - 141	11.3	20	
Ethylbenzene	85.8700	5.0	0.91	100.000		85.9	82 - 121	16.1	20	
Freon-113	46.3200	5.0	2.8	50.0000		92.6	59 - 139	16.6	20	
Hexachlorobutadiene	44.2500	5.0	2.5	50.0000		88.5	69 - 143	15.1	20	
Isopropylbenzene	48.0200	5.0	1.8	50.0000		96.0	78 - 124	14.7	20	
m,p-Xylene	89.6700	10	1.5	100.000		89.7	85 - 118	16.4	20	
Methylene chloride	32.0900	5.0	2.3	50.0000		64.2	44 - 146	15.4	20	
MTBE	42.8000	5.0	0.63	50.0000		85.6	61 - 122	5.01	20	
n-Butylbenzene	46.6300	5.0	2.4	50.0000		93.3	78 - 135	17.1	20	
n-Propylbenzene	44.9400	5.0	2.2	50.0000		89.9	78 - 127	15.6	20	
Naphthalene	43.7800	5.0	0.97	50.0000		87.6	68 - 129	6.84	20	
o-Xylene	87.2000	5.0	0.87	100.000		87.2	86 - 118	15.8	20	
sec-Butylbenzene	45.7200	5.0	2.3	50.0000		91.4	80 - 127	16.9	20	

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0428 - MSVOA_S (continued)										
LCS Dup (B9G0428-BSD1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
Styrene	43.6400	5.0	1.5	50.0000		87.3	85 - 117	13.5	20	
tert-Amyl methyl ether	46.0500	5.0	0.59	50.0000		92.1	48 - 135	9.36	20	
tert-Butanol	124.140	100	19	250.000		49.7	0 - 175	45.5	20	R
tert-Butylbenzene	45.5400	5.0	2.0	50.0000		91.1	81 - 122	15.2	20	
Tetrachloroethene	44.0900	5.0	1.6	50.0000		88.2	77 - 122	19.7	20	
Toluene	86.3400	5.0	0.94	100.000		86.3	79 - 114	15.2	20	
trans-1,2-Dichloroethene	41.3500	5.0	0.59	50.0000		82.7	66 - 125	3.07	20	
trans-1,3-Dichloropropene	43.5000	5.0	2.1	50.0000		87.0	76 - 120	11.3	20	
Trichloroethene	43.8300	5.0	3.1	50.0000		87.7	79 - 117	17.3	20	
Trichlorofluoromethane	44.8900	5.0	1.4	50.0000		89.8	55 - 133	19.6	20	
Vinyl acetate	438.370	50	9.8	500.000		87.7	52 - 141	8.80	20	
Vinyl chloride	50.0800	5.0	1.7	50.0000		100	58 - 132	19.2	20	
Surrogate: 1,2-Dichloroethane-d4	*44.78*			*50.0000*		*89.6*	*60 - 145*			
Surrogate: 4-Bromofluorobenzene	*49.51*			*50.0000*		*99.0*	*68 - 121*			
Surrogate: Dibromofluoromethan	*46.41*			*50.0000*		*92.8*	*65 - 137*			
Surrogate: Toluene-d8	*49.65*			*50.0000*		*99.3*	*82 - 119*			
Matrix Spike (B9G0428-MS1)			**Source: 1902701-43**		Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,1,1,2-Tetrachloroethane	38.3100	5.0	0.96	50.0000	ND	76.6	45 - 121			
1,1,1-Trichloroethane	37.7100	5.0	1.1	50.0000	ND	75.4	43 - 127			
1,1,2,2-Tetrachloroethane	46.3300	5.0	0.62	50.0000	ND	92.7	32 - 128			
1,1,2-Trichloroethane	44.3800	5.0	1.6	50.0000	ND	88.8	45 - 121			
1,1-Dichloroethane	39.5400	5.0	0.81	50.0000	ND	79.1	46 - 119			
1,1-Dichloroethene	37.6500	5.0	2.6	50.0000	ND	75.3	40 - 130			
1,1-Dichloropropene	38.9000	5.0	2.3	50.0000	ND	77.8	45 - 130			
1,2,3-Trichloropropane	50.1200	5.0	0.54	50.0000	ND	100	42 - 124			
1,2,3-Trichlorobenzene	31.5300	5.0	1.2	50.0000	ND	63.1	4 - 135			
1,2,4-Trichlorobenzene	32.0400	5.0	1.1	50.0000	ND	64.1	8 - 141			
1,2,4-Trimethylbenzene	35.2800	5.0	1.5	50.0000	ND	70.6	30 - 136			
1,2-Dibromo-3-chloropropane	47.3000	10	1.6	50.0000	ND	94.6	38 - 132			
1,2-Dibromoethane	43.4800	5.0	3.2	50.0000	ND	87.0	45 - 121			
1,2-Dichlorobenzene	34.5700	5.0	1.1	50.0000	ND	69.1	30 - 125			
1,2-Dichloroethane	45.4300	5.0	1.2	50.0000	ND	90.9	51 - 115			
1,2-Dichloropropane	42.1000	5.0	1.8	50.0000	ND	84.2	50 - 118			
1,3,5-Trimethylbenzene	34.9900	5.0	1.7	50.0000	ND	70.0	29 - 137			
1,3-Dichlorobenzene	33.0600	5.0	1.3	50.0000	ND	66.1	30 - 124			
1,3-Dichloropropane	43.4000	5.0	1.1	50.0000	ND	86.8	49 - 116			
1,4-Dichlorobenzene	33.0400	5.0	1.2	50.0000	ND	66.1	31 - 124			
2,2-Dichloropropane	36.4800	5.0	1.2	50.0000	ND	73.0	41 - 134			
2-Chlorotoluene	35.0300	5.0	1.6	50.0000	ND	70.1	32 - 127			
4-Chlorotoluene	35.1800	5.0	1.5	50.0000	ND	70.4	34 - 124			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0428 - MSVOA_S (continued)										
Matrix Spike (B9G0428-MS1) - Continued			**Source: 1902701-43**		Prepared: 7/17/2019 Analyzed: 7/17/2019					
4-Isopropyltoluene	34.3700	5.0	2.3	50.0000	ND	68.7	26 - 141			
Benzene	78.8200	5.0	0.64	100.000	ND	78.8	48 - 117			
Bromobenzene	34.9300	5.0	1.1	50.0000	ND	69.9	40 - 117			
Bromochloromethane	41.2000	5.0	0.64	50.0000	ND	82.4	48 - 117			
Bromodichloromethane	40.4300	5.0	1.2	50.0000	ND	80.9	49 - 115			
Bromoform	39.9900	5.0	0.80	50.0000	ND	80.0	42 - 127			
Bromomethane	40.5000	5.0	2.5	50.0000	ND	81.0	19 - 157			
Carbon disulfide	40.0200	5.0	3.5	50.0000	ND	80.0	34 - 138			
Carbon tetrachloride	37.6900	5.0	1.2	50.0000	ND	75.4	43 - 130			
Chlorobenzene	36.1100	5.0	1.0	50.0000	ND	72.2	41 - 122			
Chloroethane	39.8100	5.0	1.1	50.0000	ND	79.6	32 - 145			
Chloroform	39.7800	5.0	0.82	50.0000	ND	79.6	46 - 118			
Chloromethane	47.3600	5.0	1.4	50.0000	ND	94.7	34 - 132			
cis-1,2-Dichloroethene	38.9600	5.0	0.67	50.0000	ND	77.9	44 - 119			
cis-1,3-Dichloropropene	43.9200	5.0	1.9	50.0000	ND	87.8	44 - 126			
Di-isopropyl ether	43.8900	5.0	0.55	50.0000	ND	87.8	42 - 126			
Dibromochloromethane	40.7200	5.0	1.0	50.0000	ND	81.4	46 - 119			
Dibromomethane	44.3600	5.0	1.6	50.0000	ND	88.7	52 - 114			
Dichlorodifluoromethane	53.4600	5.0	2.2	50.0000	ND	107	22 - 147			
Ethyl Acetate	82.9600	50	8.1	500.000	ND	16.6	9 - 140			
Ethyl Ether	456.900	50	6.1	500.000	ND	91.4	45 - 131			
Ethyl tert-butyl ether	46.2000	5.0	0.67	50.0000	ND	92.4	33 - 138			
Ethylbenzene	69.7300	5.0	0.91	100.000	ND	69.7	38 - 131			
Freon-113	39.5200	5.0	2.8	50.0000	ND	79.0	38 - 140			
Hexachlorobutadiene	30.3700	5.0	2.5	50.0000	ND	60.7	4 - 141			
Isopropylbenzene	36.9000	5.0	1.8	50.0000	ND	73.8	35 - 133			
m,p-Xylene	72.1500	10	1.5	100.000	ND	72.2	38 - 130			
Methylene chloride	34.4600	5.0	2.3	50.0000	ND	68.9	26 - 137			
MTBE	45.6700	5.0	0.63	50.0000	ND	91.3	45 - 121			
n-Butylbenzene	34.3400	5.0	2.4	50.0000	ND	68.7	18 - 144			
n-Propylbenzene	33.9900	5.0	2.2	50.0000	ND	68.0	30 - 137			
Naphthalene	37.9000	5.0	0.97	50.0000	ND	75.8	14 - 137			
o-Xylene	72.8500	5.0	0.87	100.000	ND	72.8	41 - 129			
sec-Butylbenzene	34.1400	5.0	2.3	50.0000	ND	68.3	24 - 140			
Styrene	36.2800	5.0	1.5	50.0000	ND	72.6	41 - 125			
tert-Amyl methyl ether	45.0000	5.0	0.59	50.0000	ND	90.0	31 - 133			
tert-Butanol	271.120	100	19	250.000	ND	108	0 - 201			
tert-Butylbenzene	34.8300	5.0	2.0	50.0000	ND	69.7	30 - 134			
Tetrachloroethene	34.2900	5.0	1.6	50.0000	ND	68.6	37 - 130			
Toluene	74.9200	5.0	0.94	100.000	ND	74.9	45 - 122			
trans-1,2-Dichloroethene	36.8000	5.0	0.59	50.0000	ND	73.6	46 - 122			
trans-1,3-Dichloropropene	40.7100	5.0	2.1	50.0000	ND	81.4	44 - 124			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0428 - MSVOA_S (continued)										
Matrix Spike (B9G0428-MS1) - Continued			**Source: 1902701-43**		Prepared: 7/17/2019 Analyzed: 7/17/2019					
Trichloroethene	36.8400	5.0	3.1	50.0000	ND	73.7	36 - 142			
Trichlorofluoromethane	38.5800	5.0	1.4	50.0000	ND	77.2	37 - 135			
Vinyl acetate	28.5000	50	9.8	500.000	ND	5.70	0 - 136			
Vinyl chloride	45.4300	5.0	1.7	50.0000	ND	90.9	42 - 131			
Surrogate: 1,2-Dichloroethane-d4	*53.52*			*50.0000*		*107*	*60 - 145*			
Surrogate: 4-Bromofluorobenzene	*51.00*			*50.0000*		*102*	*68 - 121*			
Surrogate: Dibromofluoromethan	*50.79*			*50.0000*		*102*	*65 - 137*			
Surrogate: Toluene-d8	*49.94*			*50.0000*		*99.9*	*82 - 119*			
Matrix Spike Dup (B9G0428-MSD1)			**Source: 1902701-43**		Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,1,1,2-Tetrachloroethane	34.6900	5.0	0.96	50.0000	ND	69.4	45 - 121	9.92	20	
1,1,1-Trichloroethane	35.8500	5.0	1.1	50.0000	ND	71.7	43 - 127	5.06	20	
1,1,2,2-Tetrachloroethane	38.0600	5.0	0.62	50.0000	ND	76.1	32 - 128	19.6	20	
1,1,2-Trichloroethane	36.8600	5.0	1.6	50.0000	ND	73.7	45 - 121	18.5	20	
1,1-Dichloroethane	36.8300	5.0	0.81	50.0000	ND	73.7	46 - 119	7.10	20	
1,1-Dichloroethene	35.6100	5.0	2.6	50.0000	ND	71.2	40 - 130	5.57	20	
1,1-Dichloropropene	37.5300	5.0	2.3	50.0000	ND	75.1	45 - 130	3.58	20	
1,2,3-Trichloropropane	39.3700	5.0	0.54	50.0000	ND	78.7	42 - 124	24.0	20	R
1,2,3-Trichlorobenzene	26.8800	5.0	1.2	50.0000	ND	53.8	4 - 135	15.9	20	
1,2,4-Trichlorobenzene	27.5800	5.0	1.1	50.0000	ND	55.2	8 - 141	15.0	20	
1,2,4-Trimethylbenzene	32.7000	5.0	1.5	50.0000	ND	65.4	30 - 136	7.59	20	
1,2-Dibromo-3-chloropropane	37.7400	10	1.6	50.0000	ND	75.5	38 - 132	22.5	20	R
1,2-Dibromoethane	35.7500	5.0	3.2	50.0000	ND	71.5	45 - 121	19.5	20	
1,2-Dichlorobenzene	30.4600	5.0	1.1	50.0000	ND	60.9	30 - 125	12.6	20	
1,2-Dichloroethane	38.3100	5.0	1.2	50.0000	ND	76.6	51 - 115	17.0	20	
1,2-Dichloropropane	37.1300	5.0	1.8	50.0000	ND	74.3	50 - 118	12.5	20	
1,3,5-Trimethylbenzene	33.0400	5.0	1.7	50.0000	ND	66.1	29 - 137	5.73	20	
1,3-Dichlorobenzene	29.7300	5.0	1.3	50.0000	ND	59.5	30 - 124	10.6	20	
1,3-Dichloropropane	38.3400	5.0	1.1	50.0000	ND	76.7	49 - 116	12.4	20	
1,4-Dichlorobenzene	29.4300	5.0	1.2	50.0000	ND	58.9	31 - 124	11.6	20	
2,2-Dichloropropane	34.9600	5.0	1.2	50.0000	ND	69.9	41 - 134	4.26	20	
2-Chlorotoluene	32.8900	5.0	1.6	50.0000	ND	65.8	32 - 127	6.30	20	
4-Chlorotoluene	32.7100	5.0	1.5	50.0000	ND	65.4	34 - 124	7.28	20	
4-Isopropyltoluene	32.5700	5.0	2.3	50.0000	ND	65.1	26 - 141	5.38	20	
Benzene	72.9100	5.0	0.64	100.000	ND	72.9	48 - 117	7.79	20	
Bromobenzene	31.4300	5.0	1.1	50.0000	ND	62.9	40 - 117	10.5	20	
Bromochloromethane	34.8700	5.0	0.64	50.0000	ND	69.7	48 - 117	16.6	20	
Bromodichloromethane	36.0000	5.0	1.2	50.0000	ND	72.0	49 - 115	11.6	20	
Bromoform	33.1300	5.0	0.80	50.0000	ND	66.3	42 - 127	18.8	20	
Bromomethane	34.6100	5.0	2.5	50.0000	ND	69.2	19 - 157	15.7	20	
Carbon disulfide	37.2100	5.0	3.5	50.0000	ND	74.4	34 - 138	7.28	20	

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0428 - MSVOA_S (continued)										
Matrix Spike Dup (B9G0428-MSD1) - Continued			**Source: 1902701-43**		Prepared: 7/17/2019 Analyzed: 7/17/2019					
Carbon tetrachloride	36.5200	5.0	1.2	50.0000	ND	73.0	43 - 130	3.15	20	
Chlorobenzene	33.7200	5.0	1.0	50.0000	ND	67.4	41 - 122	6.85	20	
Chloroethane	37.6500	5.0	1.1	50.0000	ND	75.3	32 - 145	5.58	20	
Chloroform	35.2500	5.0	0.82	50.0000	ND	70.5	46 - 118	12.1	20	
Chloromethane	42.5400	5.0	1.4	50.0000	ND	85.1	34 - 132	10.7	20	
cis-1,2-Dichloroethene	36.2100	5.0	0.67	50.0000	ND	72.4	44 - 119	7.32	20	
cis-1,3-Dichloropropene	37.9800	5.0	1.9	50.0000	ND	76.0	44 - 126	14.5	20	
Di-isopropyl ether	38.5300	5.0	0.55	50.0000	ND	77.1	42 - 126	13.0	20	
Dibromochloromethane	35.0000	5.0	1.0	50.0000	ND	70.0	46 - 119	15.1	20	
Dibromomethane	36.5500	5.0	1.6	50.0000	ND	73.1	52 - 114	19.3	20	
Dichlorodifluoromethane	50.9600	5.0	2.2	50.0000	ND	102	22 - 147	4.79	20	
Ethyl Acetate	59.6900	50	8.1	500.000	ND	11.9	9 - 140	32.6	20	R
Ethyl Ether	358.010	50	6.1	500.000	ND	71.6	45 - 131	24.3	20	R
Ethyl tert-butyl ether	38.7400	5.0	0.67	50.0000	ND	77.5	33 - 138	17.6	20	
Ethylbenzene	67.7000	5.0	0.91	100.000	ND	67.7	38 - 131	2.95	20	
Freon-113	37.9400	5.0	2.8	50.0000	ND	75.9	38 - 140	4.08	20	
Hexachlorobutadiene	28.4700	5.0	2.5	50.0000	ND	56.9	4 - 141	6.46	20	
Isopropylbenzene	35.9700	5.0	1.8	50.0000	ND	71.9	35 - 133	2.55	20	
m,p-Xylene	69.6700	10	1.5	100.000	ND	69.7	38 - 130	3.50	20	
Methylene chloride	26.9300	5.0	2.3	50.0000	ND	53.9	26 - 137	24.5	20	R
MTBE	38.2000	5.0	0.63	50.0000	ND	76.4	45 - 121	17.8	20	
n-Butylbenzene	32.4200	5.0	2.4	50.0000	ND	64.8	18 - 144	5.75	20	
n-Propylbenzene	33.2300	5.0	2.2	50.0000	ND	66.5	30 - 137	2.26	20	
Naphthalene	30.8000	5.0	0.97	50.0000	ND	61.6	14 - 137	20.7	20	R
o-Xylene	69.3900	5.0	0.87	100.000	ND	69.4	41 - 129	4.87	20	
sec-Butylbenzene	32.8900	5.0	2.3	50.0000	ND	65.8	24 - 140	3.73	20	
Styrene	33.9300	5.0	1.5	50.0000	ND	67.9	41 - 125	6.69	20	
tert-Amyl methyl ether	36.5000	5.0	0.59	50.0000	ND	73.0	31 - 133	20.9	20	R
tert-Butanol	218.270	100	19	250.000	ND	87.3	0 - 201	21.6	20	R
tert-Butylbenzene	33.2500	5.0	2.0	50.0000	ND	66.5	30 - 134	4.64	20	
Tetrachloroethene	34.5700	5.0	1.6	50.0000	ND	69.1	37 - 130	0.813	20	
Toluene	69.3300	5.0	0.94	100.000	ND	69.3	45 - 122	7.75	20	
trans-1,2-Dichloroethene	34.1000	5.0	0.59	50.0000	ND	68.2	46 - 122	7.62	20	
trans-1,3-Dichloropropene	34.3000	5.0	2.1	50.0000	ND	68.6	44 - 124	17.1	20	
Trichloroethene	35.5200	5.0	3.1	50.0000	ND	71.0	36 - 142	3.65	20	
Trichlorofluoromethane	37.2400	5.0	1.4	50.0000	ND	74.5	37 - 135	3.53	20	
Vinyl acetate	30.1000	50	9.8	500.000	ND	6.02	0 - 136	5.46	20	
Vinyl chloride	42.2900	5.0	1.7	50.0000	ND	84.6	42 - 131	7.16	20	
Surrogate: 1,2-Dichloroethane-d4	*47.79*			*50.0000*		*95.6*	*60 - 145*			
Surrogate: 4-Bromofluorobenzene	*49.86*			*50.0000*		*99.7*	*68 - 121*			
Surrogate: Dibromofluoromethan	*47.47*			*50.0000*		*94.9*	*65 - 137*			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0428 - MSVOA_S (continued)									
Matrix Spike Dup (B9G0428-MSD1) - Continued			**Source: 1902701-43**		Prepared: 7/17/2019 Analyzed: 7/17/2019				
Surrogate: Toluene-d8	*48.60*		*50.0000*		*97.2*	*82 - 119*			

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Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0409 - MSVOA_W										
Blank (B9G0409-BLK1)					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11							
1,1,1-Trichloroethane	ND	0.50	0.07							
1,1,2,2-Tetrachloroethane	ND	0.50	0.36							
1,1,2-Trichloroethane	ND	0.50	0.25							
1,1-Dichloroethane	ND	0.50	0.09							
1,1-Dichloroethene	ND	0.50	0.13							
1,1-Dichloropropene	ND	0.50	0.13							
1,2,3-Trichloropropane	ND	0.50	0.39							
1,2,3-Trichlorobenzene	ND	0.50	0.18							
1,2,4-Trichlorobenzene	ND	0.50	0.16							
1,2,4-Trimethylbenzene	ND	0.50	0.14							
1,2-Dibromo-3-chloropropane	ND	0.50	0.41							
1,2-Dibromoethane	ND	0.50	0.24							
1,2-Dichlorobenzene	ND	0.50	0.20							
1,2-Dichloroethane	ND	0.50	0.20							
1,2-Dichloropropane	ND	0.50	0.15							
1,3,5-Trimethylbenzene	ND	0.50	0.13							
1,3-Dichlorobenzene	ND	0.50	0.16							
1,3-Dichloropropane	ND	0.50	0.21							
1,4-Dichlorobenzene	ND	0.50	0.17							
2,2-Dichloropropane	ND	0.50	0.38							
2-Chlorotoluene	ND	0.50	0.11							
4-Chlorotoluene	ND	0.50	0.12							
4-Isopropyltoluene	ND	0.50	0.11							
Benzene	ND	0.50	0.13							
Bromobenzene	ND	0.50	0.21							
Bromochloromethane	ND	0.50	0.16							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.20							
Bromomethane	ND	0.50	0.17							
Carbon disulfide	ND	1.0	0.07							
Carbon tetrachloride	ND	0.50	0.09							
Chlorobenzene	ND	0.50	0.13							
Chloroethane	ND	0.50	0.15							
Chloroform	ND	0.50	0.11							
Chloromethane	ND	0.50	0.12							
cis-1,2-Dichloroethene	ND	0.50	0.14							
cis-1,3-Dichloropropene	ND	0.50	0.13							
Di-isopropyl ether	ND	0.50	0.15							
Dibromochloromethane	ND	0.50	0.16							
Dibromomethane	ND	0.50	0.19							

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0409 - MSVOA_W (continued)										
Blank (B9G0409-BLK1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
Dichlorodifluoromethane	ND	0.50	0.05							
Ethyl Acetate	ND	10	3.1							
Ethyl Ether	ND	10	2.0							
Ethyl tert-butyl ether	ND	0.50	0.21							
Ethylbenzene	ND	0.50	0.13							
Freon-113	ND	0.50	0.13							
Hexachlorobutadiene	ND	0.50	0.15							
Isopropylbenzene	ND	0.50	0.10							
m,p-Xylene	ND	1.0	0.19							
Methylene chloride	ND	1.0	0.71							
MTBE	ND	0.50	0.26							
n-Butylbenzene	ND	0.50	0.11							
n-Propylbenzene	ND	0.50	0.10							
Naphthalene	ND	0.50	0.41							
o-Xylene	ND	0.50	0.13							
sec-Butylbenzene	ND	0.50	0.09							
Styrene	ND	0.50	0.13							
tert-Amyl methyl ether	ND	0.50	0.41							
tert-Butanol	ND	10	2.4							
tert-Butylbenzene	ND	0.50	0.09							
Tetrachloroethene	ND	0.50	0.10							
Toluene	ND	0.50	0.12							
trans-1,2-Dichloroethene	ND	0.50	0.09							
trans-1,3-Dichloropropene	ND	0.50	0.23							
Trichloroethene	ND	0.50	0.10							
Trichlorofluoromethane	ND	0.50	0.10							
Vinyl acetate	ND	10	1.7							
Vinyl chloride	ND	0.50	0.05							
Surrogate: 1,2-Dichloroethane-d4	*25.22*			*25.0000*		*101*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*25.05*			*25.0000*		*100*	*62 - 134*			
Surrogate: Dibromofluoromethan	*24.39*			*25.0000*		*97.6*	*56 - 167*			
Surrogate: Toluene-d8	*24.82*			*25.0000*		*99.3*	*33 - 170*			
LCS (B9G0409-BS1)					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,1,1,2-Tetrachloroethane	19.9800	0.50	0.11	20.0000		99.9	80 - 137			
1,1,1-Trichloroethane	19.0100	0.50	0.07	20.0000		95.0	75 - 148			
1,1,2,2-Tetrachloroethane	16.4900	0.50	0.36	20.0000		82.4	64 - 118			
1,1,2-Trichloroethane	18.6300	0.50	0.25	20.0000		93.2	77 - 113			
1,1-Dichloroethane	16.8300	0.50	0.09	20.0000		84.2	72 - 131			
1,1-Dichloroethene	19.1100	0.50	0.13	20.0000		95.6	75 - 132			
1,1-Dichloropropene	20.3600	0.50	0.13	20.0000		102	84 - 141			

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Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0409 - MSVOA_W (continued)										
LCS (B9G0409-BS1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,2,3-Trichloropropane	15.6800	0.50	0.39	20.0000		78.4	65 - 111			
1,2,3-Trichlorobenzene	17.2200	0.50	0.18	20.0000		86.1	79 - 117			
1,2,4-Trichlorobenzene	17.8200	0.50	0.16	20.0000		89.1	78 - 121			
1,2,4-Trimethylbenzene	17.7600	0.50	0.14	20.0000		88.8	83 - 125			
1,2-Dibromo-3-chloropropane	16.7000	0.50	0.41	20.0000		83.5	54 - 116			
1,2-Dibromoethane	18.3900	0.50	0.24	20.0000		92.0	79 - 118			
1,2-Dichlorobenzene	17.6200	0.50	0.20	20.0000		88.1	82 - 115			
1,2-Dichloroethane	21.1100	0.50	0.20	20.0000		106	76 - 115			
1,2-Dichloropropane	16.9300	0.50	0.15	20.0000		84.6	74 - 113			
1,3,5-Trimethylbenzene	17.8100	0.50	0.13	20.0000		89.0	83 - 126			
1,3-Dichlorobenzene	19.3400	0.50	0.16	20.0000		96.7	84 - 118			
1,3-Dichloropropane	17.3000	0.50	0.21	20.0000		86.5	72 - 116			
1,4-Dichlorobenzene	19.0200	0.50	0.17	20.0000		95.1	83 - 112			
2,2-Dichloropropane	19.3600	0.50	0.38	20.0000		96.8	72 - 150			
2-Chlorotoluene	18.4600	0.50	0.11	20.0000		92.3	82 - 120			
4-Chlorotoluene	17.2600	0.50	0.12	20.0000		86.3	81 - 121			
4-Isopropyltoluene	17.8700	0.50	0.11	20.0000		89.4	86 - 124			
Benzene	35.4800	0.50	0.13	40.0000		88.7	81 - 118			
Bromobenzene	17.9100	0.50	0.21	20.0000		89.6	82 - 117			
Bromochloromethane	17.1600	0.50	0.16	20.0000		85.8	70 - 136			
Bromodichloromethane	18.9300	0.50	0.14	20.0000		94.6	80 - 122			
Bromoform	19.3700	0.50	0.20	20.0000		96.8	53 - 145			
Bromomethane	20.0800	0.50	0.17	20.0000		100	30 - 204			
Carbon disulfide	18.5700	1.0	0.07	20.0000		92.8	85 - 131			
Carbon tetrachloride	22.1000	0.50	0.09	20.0000		110	77 - 157			
Chlorobenzene	17.5200	0.50	0.13	20.0000		87.6	86 - 113			
Chloroethane	19.0300	0.50	0.15	20.0000		95.2	70 - 160			
Chloroform	17.9600	0.50	0.11	20.0000		89.8	66 - 136			
Chloromethane	16.0600	0.50	0.12	20.0000		80.3	52 - 138			
cis-1,2-Dichloroethene	16.2500	0.50	0.14	20.0000		81.2	71 - 128			
cis-1,3-Dichloropropene	20.1000	0.50	0.13	20.0000		100	71 - 123			
Di-isopropyl ether	15.2500	0.50	0.15	20.0000		76.2	64 - 123			
Dibromochloromethane	19.1200	0.50	0.16	20.0000		95.6	78 - 140			
Dibromomethane	18.6900	0.50	0.19	20.0000		93.4	78 - 109			
Dichlorodifluoromethane	26.4300	0.50	0.05	20.0000		132	64 - 144			
Ethyl Acetate	140.730	10	3.1	200.000		70.4	55 - 123			
Ethyl Ether	174.060	10	2.0	200.000		87.0	74 - 122			
Ethyl tert-butyl ether	17.5300	0.50	0.21	20.0000		87.6	72 - 120			
Ethylbenzene	35.3100	0.50	0.13	40.0000		88.3	90 - 116			L4
Freon-113	21.2800	0.50	0.13	20.0000		106	76 - 143			
Hexachlorobutadiene	18.6700	0.50	0.15	20.0000		93.4	81 - 129			
Isopropylbenzene	19.3000	0.50	0.10	20.0000		96.5	83 - 129			

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Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0409 - MSVOA_W (continued)										
LCS (B9G0409-BS1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
m,p-Xylene	37.8600	1.0	0.19	40.0000		94.6	88 - 124			
Methylene chloride	17.8900	1.0	0.71	20.0000		89.4	76 - 137			
MTBE	14.9200	0.50	0.26	20.0000		74.6	67 - 121			
n-Butylbenzene	18.2500	0.50	0.11	20.0000		91.2	83 - 129			
n-Propylbenzene	17.5900	0.50	0.10	20.0000		88.0	85 - 124			
Naphthalene	15.4700	0.50	0.41	20.0000		77.4	67 - 113			
o-Xylene	36.7500	0.50	0.13	40.0000		91.9	82 - 129			
sec-Butylbenzene	17.3400	0.50	0.09	20.0000		86.7	86 - 127			
Styrene	19.1100	0.50	0.13	20.0000		95.6	83 - 122			
tert-Amyl methyl ether	16.2300	0.50	0.41	20.0000		81.2	61 - 114			
tert-Butanol	64.9600	10	2.4	100.000		65.0	45 - 121			
tert-Butylbenzene	17.7200	0.50	0.09	20.0000		88.6	84 - 130			
Tetrachloroethene	19.0400	0.50	0.10	20.0000		95.2	87 - 123			
Toluene	36.4400	0.50	0.12	40.0000		91.1	84 - 115			
trans-1,2-Dichloroethene	23.4000	0.50	0.09	20.0000		117	60 - 148			
trans-1,3-Dichloropropene	18.3100	0.50	0.23	20.0000		91.6	77 - 118			
Trichloroethene	17.7500	0.50	0.10	20.0000		88.8	79 - 129			
Trichlorofluoromethane	21.0500	0.50	0.10	20.0000		105	68 - 162			
Vinyl acetate	183.560	10	1.7	200.000		91.8	65 - 134			
Vinyl chloride	17.7600	0.50	0.05	20.0000		88.8	73 - 128			
Surrogate: 1,2-Dichloroethane-d4	*25.32*			*25.0000*		*101*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*25.60*			*25.0000*		*102*	*62 - 134*			
Surrogate: Dibromofluoromethan	*23.93*			*25.0000*		*95.7*	*56 - 167*			
Surrogate: Toluene-d8	*26.03*			*25.0000*		*104*	*33 - 170*			
LCS Dup (B9G0409-BSD1)					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,1,1,2-Tetrachloroethane	21.9700	0.50	0.11	20.0000		110	80 - 137	9.49	20	
1,1,1-Trichloroethane	20.7900	0.50	0.07	20.0000		104	75 - 148	8.94	20	
1,1,2,2-Tetrachloroethane	17.8000	0.50	0.36	20.0000		89.0	64 - 118	7.64	20	
1,1,2-Trichloroethane	18.8500	0.50	0.25	20.0000		94.2	77 - 113	1.17	20	
1,1-Dichloroethane	18.4100	0.50	0.09	20.0000		92.0	72 - 131	8.97	20	
1,1-Dichloroethene	20.5200	0.50	0.13	20.0000		103	75 - 132	7.12	20	
1,1-Dichloropropene	21.3300	0.50	0.13	20.0000		107	84 - 141	4.65	20	
1,2,3-Trichloropropane	16.1400	0.50	0.39	20.0000		80.7	65 - 111	2.89	20	
1,2,3-Trichlorobenzene	17.9900	0.50	0.18	20.0000		90.0	79 - 117	4.37	20	
1,2,4-Trichlorobenzene	19.4100	0.50	0.16	20.0000		97.0	78 - 121	8.54	20	
1,2,4-Trimethylbenzene	18.9300	0.50	0.14	20.0000		94.6	83 - 125	6.38	20	
1,2-Dibromo-3-chloropropane	17.8300	0.50	0.41	20.0000		89.2	54 - 116	6.55	20	
1,2-Dibromoethane	19.9700	0.50	0.24	20.0000		99.8	79 - 118	8.24	20	
1,2-Dichlorobenzene	18.6700	0.50	0.20	20.0000		93.4	82 - 115	5.79	20	
1,2-Dichloroethane	22.5700	0.50	0.20	20.0000		113	76 - 115	6.68	20	

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Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0409 - MSVOA_W (continued)										
LCS Dup (B9G0409-BSD1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,2-Dichloropropane	18.3600	0.50	0.15	20.0000		91.8	74 - 113	8.10	20	
1,3,5-Trimethylbenzene	18.2500	0.50	0.13	20.0000		91.2	83 - 126	2.44	20	
1,3-Dichlorobenzene	19.7100	0.50	0.16	20.0000		98.6	84 - 118	1.90	20	
1,3-Dichloropropane	19.3400	0.50	0.21	20.0000		96.7	72 - 116	11.1	20	
1,4-Dichlorobenzene	20.2600	0.50	0.17	20.0000		101	83 - 112	6.31	20	
2,2-Dichloropropane	21.5100	0.50	0.38	20.0000		108	72 - 150	10.5	20	
2-Chlorotoluene	19.0700	0.50	0.11	20.0000		95.4	82 - 120	3.25	20	
4-Chlorotoluene	18.6200	0.50	0.12	20.0000		93.1	81 - 121	7.58	20	
4-Isopropyltoluene	18.8400	0.50	0.11	20.0000		94.2	86 - 124	5.28	20	
Benzene	36.7100	0.50	0.13	40.0000		91.8	81 - 118	3.41	20	
Bromobenzene	18.0300	0.50	0.21	20.0000		90.2	82 - 117	0.668	20	
Bromochloromethane	18.5800	0.50	0.16	20.0000		92.9	70 - 136	7.95	20	
Bromodichloromethane	21.1200	0.50	0.14	20.0000		106	80 - 122	10.9	20	
Bromoform	19.9800	0.50	0.20	20.0000		99.9	53 - 145	3.10	20	
Bromomethane	20.3100	0.50	0.17	20.0000		102	30 - 204	1.14	20	
Carbon disulfide	19.4000	1.0	0.07	20.0000		97.0	85 - 131	4.37	20	
Carbon tetrachloride	23.5400	0.50	0.09	20.0000		118	77 - 157	6.31	20	
Chlorobenzene	18.7600	0.50	0.13	20.0000		93.8	86 - 113	6.84	20	
Chloroethane	21.3600	0.50	0.15	20.0000		107	70 - 160	11.5	20	
Chloroform	19.2300	0.50	0.11	20.0000		96.2	66 - 136	6.83	20	
Chloromethane	16.3500	0.50	0.12	20.0000		81.8	52 - 138	1.79	20	
cis-1,2-Dichloroethene	18.1000	0.50	0.14	20.0000		90.5	71 - 128	10.8	20	
cis-1,3-Dichloropropene	22.0500	0.50	0.13	20.0000		110	71 - 123	9.25	20	
Di-isopropyl ether	17.1200	0.50	0.15	20.0000		85.6	64 - 123	11.6	20	
Dibromochloromethane	20.8200	0.50	0.16	20.0000		104	78 - 140	8.51	20	
Dibromomethane	19.5300	0.50	0.19	20.0000		97.6	78 - 109	4.40	20	
Dichlorodifluoromethane	29.3900	0.50	0.05	20.0000		147	64 - 144	10.6	20	L4
Ethyl Acetate	163.530	10	3.1	200.000		81.8	55 - 123	15.0	20	
Ethyl Ether	194.560	10	2.0	200.000		97.3	74 - 122	11.1	20	
Ethyl tert-butyl ether	19.4400	0.50	0.21	20.0000		97.2	72 - 120	10.3	20	
Ethylbenzene	37.1300	0.50	0.13	40.0000		92.8	90 - 116	5.02	20	
Freon-113	24.5400	0.50	0.13	20.0000		123	76 - 143	14.2	20	
Hexachlorobutadiene	18.7100	0.50	0.15	20.0000		93.6	81 - 129	0.214	20	
Isopropylbenzene	19.9400	0.50	0.10	20.0000		99.7	83 - 129	3.26	20	
m,p-Xylene	39.0900	1.0	0.19	40.0000		97.7	88 - 124	3.20	20	
Methylene chloride	19.0100	1.0	0.71	20.0000		95.0	76 - 137	6.07	20	
MTBE	16.4200	0.50	0.26	20.0000		82.1	67 - 121	9.57	20	
n-Butylbenzene	18.5600	0.50	0.11	20.0000		92.8	83 - 129	1.68	20	
n-Propylbenzene	18.1500	0.50	0.10	20.0000		90.8	85 - 124	3.13	20	
Naphthalene	17.3200	0.50	0.41	20.0000		86.6	67 - 113	11.3	20	
o-Xylene	38.6100	0.50	0.13	40.0000		96.5	82 - 129	4.94	20	
sec-Butylbenzene	18.4800	0.50	0.09	20.0000		92.4	86 - 127	6.37	20	

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Batch B9G0409 - MSVOA_W (continued)										
LCS Dup (B9G0409-BSD1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
Styrene	20.3400	0.50	0.13	20.0000		102	83 - 122	6.24	20	
tert-Amyl methyl ether	18.1400	0.50	0.41	20.0000		90.7	61 - 114	11.1	20	
tert-Butanol	79.1600	10	2.4	100.000		79.2	45 - 121	19.7	20	
tert-Butylbenzene	18.5400	0.50	0.09	20.0000		92.7	84 - 130	4.52	20	
Tetrachloroethene	19.2000	0.50	0.10	20.0000		96.0	87 - 123	0.837	20	
Toluene	37.8900	0.50	0.12	40.0000		94.7	84 - 115	3.90	20	
trans-1,2-Dichloroethene	22.8200	0.50	0.09	20.0000		114	60 - 148	2.51	20	
trans-1,3-Dichloropropene	19.2700	0.50	0.23	20.0000		96.4	77 - 118	5.11	20	
Trichloroethene	19.1700	0.50	0.10	20.0000		95.8	79 - 129	7.69	20	
Trichlorofluoromethane	22.7100	0.50	0.10	20.0000		114	68 - 162	7.59	20	
Vinyl acetate	205.340	10	1.7	200.000		103	65 - 134	11.2	20	
Vinyl chloride	19.6800	0.50	0.05	20.0000		98.4	73 - 128	10.3	20	
Surrogate: 1,2-Dichloroethane-d4	*25.63*			*25.0000*		*103*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*26.23*			*25.0000*		*105*	*62 - 134*			
Surrogate: Dibromofluoromethan	*24.33*			*25.0000*		*97.3*	*56 - 167*			
Surrogate: Toluene-d8	*25.83*			*25.0000*		*103*	*33 - 170*			

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Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0400 - MSVOA_S										
Blank (B9G0400-BLK1)					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,1,1,2-Tetrachloroethane	ND	5.0	0.96							
1,1,1-Trichloroethane	ND	5.0	1.1							
1,1,2,2-Tetrachloroethane	ND	5.0	0.62							
1,1,2-Trichloroethane	ND	5.0	1.6							
1,1-Dichloroethane	ND	5.0	0.81							
1,1-Dichloroethene	ND	5.0	2.6							
1,1-Dichloropropene	ND	5.0	2.3							
1,2,3-Trichloropropane	ND	5.0	0.54							
1,2,3-Trichlorobenzene	ND	5.0	1.2							
1,2,4-Trichlorobenzene	ND	5.0	1.1							
1,2,4-Trimethylbenzene	ND	5.0	1.5							
1,2-Dibromo-3-chloropropane	ND	10	1.6							
1,2-Dibromoethane	ND	5.0	3.2							
1,2-Dichlorobenzene	ND	5.0	1.1							
1,2-Dichloroethane	ND	5.0	1.2							
1,2-Dichloropropane	ND	5.0	1.8							
1,3,5-Trimethylbenzene	ND	5.0	1.7							
1,3-Dichlorobenzene	ND	5.0	1.3							
1,3-Dichloropropane	ND	5.0	1.1							
1,4-Dichlorobenzene	ND	5.0	1.2							
2,2-Dichloropropane	ND	5.0	1.2							
2-Chlorotoluene	ND	5.0	1.6							
4-Chlorotoluene	ND	5.0	1.5							
4-Isopropyltoluene	ND	5.0	2.3							
Benzene	ND	5.0	0.64							
Bromobenzene	ND	5.0	1.1							
Bromochloromethane	ND	5.0	0.64							
Bromodichloromethane	ND	5.0	1.2							
Bromoform	ND	5.0	0.80							
Bromomethane	ND	5.0	2.5							
Carbon disulfide	ND	5.0	3.5							
Carbon tetrachloride	ND	5.0	1.2							
Chlorobenzene	ND	5.0	1.0							
Chloroethane	ND	5.0	1.1							
Chloroform	ND	5.0	0.82							
Chloromethane	ND	5.0	1.4							
cis-1,2-Dichloroethene	ND	5.0	0.67							
cis-1,3-Dichloropropene	ND	5.0	1.9							
Di-isopropyl ether	ND	5.0	0.55							
Dibromochloromethane	ND	5.0	1.0							
Dibromomethane	ND	5.0	1.6							

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0400 - MSVOA_S (continued)										
Blank (B9G0400-BLK1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
Dichlorodifluoromethane	ND	5.0	2.2							
Ethyl Acetate	ND	50	8.1							
Ethyl Ether	ND	50	6.1							
Ethyl tert-butyl ether	ND	5.0	0.67							
Ethylbenzene	ND	5.0	0.91							
Freon-113	ND	5.0	2.8							
Hexachlorobutadiene	ND	5.0	2.5							
Isopropylbenzene	ND	5.0	1.8							
m,p-Xylene	ND	10	1.5							
Methylene chloride	ND	5.0	2.3							
MTBE	ND	5.0	0.63							
n-Butylbenzene	ND	5.0	2.4							
n-Propylbenzene	ND	5.0	2.2							
Naphthalene	ND	5.0	0.97							
o-Xylene	ND	5.0	0.87							
sec-Butylbenzene	ND	5.0	2.3							
Styrene	ND	5.0	1.5							
tert-Amyl methyl ether	ND	5.0	0.59							
tert-Butanol	ND	100	19							
tert-Butylbenzene	ND	5.0	2.0							
Tetrachloroethene	ND	5.0	1.6							
Toluene	ND	5.0	0.94							
trans-1,2-Dichloroethene	ND	5.0	0.59							
trans-1,3-Dichloropropene	ND	5.0	2.1							
Trichloroethene	ND	5.0	3.1							
Trichlorofluoromethane	ND	5.0	1.4							
Vinyl acetate	ND	50	9.8							
Vinyl chloride	ND	5.0	1.7							
Surrogate: 1,2-Dichloroethane-d4	*46.17*			*50.0000*		*92.3*	*60 - 145*			
Surrogate: 4-Bromofluorobenzene	*48.61*			*50.0000*		*97.2*	*68 - 121*			
Surrogate: Dibromofluoromethan	*47.80*			*50.0000*		*95.6*	*65 - 137*			
Surrogate: Toluene-d8	*48.67*			*50.0000*		*97.3*	*82 - 119*			
LCS (B9G0400-BS1)					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,1,1,2-Tetrachloroethane	48.4200	5.0	0.96	50.0000		96.8	82 - 114			
1,1,1-Trichloroethane	52.5300	5.0	1.1	50.0000		105	70 - 121			
1,1,2,2-Tetrachloroethane	45.7500	5.0	0.62	50.0000		91.5	65 - 116			
1,1,2-Trichloroethane	45.3300	5.0	1.6	50.0000		90.7	73 - 114			
1,1-Dichloroethane	51.4200	5.0	0.81	50.0000		103	69 - 117			
1,1-Dichloroethene	51.9900	5.0	2.6	50.0000		104	57 - 128			
1,1-Dichloropropene	58.4300	5.0	2.3	50.0000		117	76 - 122			

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0400 - MSVOA_S (continued)										
LCS (B9G0400-BS1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,2,3-Trichloropropane	47.4200	5.0	0.54	50.0000		94.8	65 - 116			
1,2,3-Trichlorobenzene	46.4800	5.0	1.2	50.0000		93.0	72 - 130			
1,2,4-Trichlorobenzene	50.4100	5.0	1.1	50.0000		101	74 - 141			
1,2,4-Trimethylbenzene	51.5900	5.0	1.5	50.0000		103	81 - 126			
1,2-Dibromo-3-chloropropane	41.8100	10	1.6	50.0000		83.6	63 - 126			
1,2-Dibromoethane	45.1700	5.0	3.2	50.0000		90.3	75 - 113			
1,2-Dichlorobenzene	46.0800	5.0	1.1	50.0000		92.2	83 - 114			
1,2-Dichloroethane	46.7400	5.0	1.2	50.0000		93.5	73 - 115			
1,2-Dichloropropane	50.3600	5.0	1.8	50.0000		101	75 - 117			
1,3,5-Trimethylbenzene	52.7900	5.0	1.7	50.0000		106	80 - 126			
1,3-Dichlorobenzene	47.6900	5.0	1.3	50.0000		95.4	83 - 113			
1,3-Dichloropropane	48.4300	5.0	1.1	50.0000		96.9	79 - 108			
1,4-Dichlorobenzene	46.9100	5.0	1.2	50.0000		93.8	82 - 114			
2,2-Dichloropropane	54.3600	5.0	1.2	50.0000		109	66 - 135			
2-Chlorotoluene	50.3600	5.0	1.6	50.0000		101	79 - 117			
4-Chlorotoluene	50.7900	5.0	1.5	50.0000		102	77 - 118			
4-Isopropyltoluene	54.6500	5.0	2.3	50.0000		109	81 - 129			
Benzene	103.660	5.0	0.64	100.000		104	78 - 112			
Bromobenzene	45.9600	5.0	1.1	50.0000		91.9	79 - 111			
Bromochloromethane	45.0900	5.0	0.64	50.0000		90.2	69 - 116			
Bromodichloromethane	47.0400	5.0	1.2	50.0000		94.1	79 - 111			
Bromoform	42.8500	5.0	0.80	50.0000		85.7	75 - 119			
Bromomethane	61.5600	5.0	2.5	50.0000		123	31 - 168			
Carbon disulfide	54.0600	5.0	3.5	50.0000		108	54 - 141			
Carbon tetrachloride	55.6700	5.0	1.2	50.0000		111	74 - 125			
Chlorobenzene	50.1700	5.0	1.0	50.0000		100	83 - 112			
Chloroethane	62.4800	5.0	1.1	50.0000		125	53 - 144			
Chloroform	47.9000	5.0	0.82	50.0000		95.8	69 - 118			
Chloromethane	58.1500	5.0	1.4	50.0000		116	46 - 137			
cis-1,2-Dichloroethene	48.3500	5.0	0.67	50.0000		96.7	68 - 118			
cis-1,3-Dichloropropene	56.0700	5.0	1.9	50.0000		112	77 - 121			
Di-isopropyl ether	48.2400	5.0	0.55	50.0000		96.5	60 - 129			
Dibromochloromethane	46.5100	5.0	1.0	50.0000		93.0	80 - 111			
Dibromomethane	46.6000	5.0	1.6	50.0000		93.2	78 - 108			
Dichlorodifluoromethane	67.3300	5.0	2.2	50.0000		135	41 - 146			
Ethyl Acetate	465.350	50	8.1	500.000		93.1	52 - 130			
Ethyl Ether	413.780	50	6.1	500.000		82.8	54 - 138			
Ethyl tert-butyl ether	51.7500	5.0	0.67	50.0000		104	52 - 141			
Ethylbenzene	103.320	5.0	0.91	100.000		103	82 - 121			
Freon-113	56.2200	5.0	2.8	50.0000		112	59 - 139			
Hexachlorobutadiene	52.2800	5.0	2.5	50.0000		105	69 - 143			
Isopropylbenzene	56.2400	5.0	1.8	50.0000		112	78 - 124			

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0400 - MSVOA_S (continued)										
LCS (B9G0400-BS1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
m,p-Xylene	109.040	10	1.5	100.000		109	85 - 118			
Methylene chloride	38.5000	5.0	2.3	50.0000		77.0	44 - 146			
MTBE	45.7900	5.0	0.63	50.0000		91.6	61 - 122			
n-Butylbenzene	55.7800	5.0	2.4	50.0000		112	78 - 135			
n-Propylbenzene	52.9100	5.0	2.2	50.0000		106	78 - 127			
Naphthalene	47.2300	5.0	0.97	50.0000		94.5	68 - 129			
o-Xylene	105.670	5.0	0.87	100.000		106	86 - 118			
sec-Butylbenzene	53.6700	5.0	2.3	50.0000		107	80 - 127			
Styrene	51.7300	5.0	1.5	50.0000		103	85 - 117			
tert-Amyl methyl ether	50.8200	5.0	0.59	50.0000		102	48 - 135			
tert-Butanol	78.0200	100	19	250.000		31.2	0 - 175			
tert-Butylbenzene	53.4600	5.0	2.0	50.0000		107	81 - 122			
Tetrachloroethene	56.0900	5.0	1.6	50.0000		112	77 - 122			
Toluene	102.320	5.0	0.94	100.000		102	79 - 114			
trans-1,2-Dichloroethene	44.3700	5.0	0.59	50.0000		88.7	66 - 125			
trans-1,3-Dichloropropene	47.8700	5.0	2.1	50.0000		95.7	76 - 120			
Trichloroethene	53.2800	5.0	3.1	50.0000		107	79 - 117			
Trichlorofluoromethane	55.2700	5.0	1.4	50.0000		111	55 - 133			
Vinyl acetate	460.980	50	9.8	500.000		92.2	52 - 141			
Vinyl chloride	60.8400	5.0	1.7	50.0000		122	58 - 132			
Surrogate: 1,2-Dichloroethane-d4	*43.96*			*50.0000*		*87.9*	*60 - 145*			
Surrogate: 4-Bromofluorobenzene	*50.88*			*50.0000*		*102*	*68 - 121*			
Surrogate: Dibromofluoromethan	*46.51*			*50.0000*		*93.0*	*65 - 137*			
Surrogate: Toluene-d8	*50.21*			*50.0000*		*100*	*82 - 119*			
LCS Dup (B9G0400-BSD1)					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,1,1,2-Tetrachloroethane	46.2900	5.0	0.96	50.0000		92.6	82 - 114	4.50	20	
1,1,1-Trichloroethane	47.6100	5.0	1.1	50.0000		95.2	70 - 121	9.83	20	
1,1,2,2-Tetrachloroethane	48.7400	5.0	0.62	50.0000		97.5	65 - 116	6.33	20	
1,1,2-Trichloroethane	46.3700	5.0	1.6	50.0000		92.7	73 - 114	2.27	20	
1,1-Dichloroethane	47.1500	5.0	0.81	50.0000		94.3	69 - 117	8.66	20	
1,1-Dichloroethene	48.4300	5.0	2.6	50.0000		96.9	57 - 128	7.09	20	
1,1-Dichloropropene	52.3400	5.0	2.3	50.0000		105	76 - 122	11.0	20	
1,2,3-Trichloropropane	49.7500	5.0	0.54	50.0000		99.5	65 - 116	4.80	20	
1,2,3-Trichlorobenzene	47.5000	5.0	1.2	50.0000		95.0	72 - 130	2.17	20	
1,2,4-Trichlorobenzene	50.2600	5.0	1.1	50.0000		101	74 - 141	0.298	20	
1,2,4-Trimethylbenzene	48.2100	5.0	1.5	50.0000		96.4	81 - 126	6.77	20	
1,2-Dibromo-3-chloropropane	45.3500	10	1.6	50.0000		90.7	63 - 126	8.12	20	
1,2-Dibromoethane	45.5400	5.0	3.2	50.0000		91.1	75 - 113	0.816	20	
1,2-Dichlorobenzene	46.4100	5.0	1.1	50.0000		92.8	83 - 114	0.714	20	
1,2-Dichloroethane	46.1000	5.0	1.2	50.0000		92.2	73 - 115	1.38	20	

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0400 - MSVOA_S (continued)										
LCS Dup (B9G0400-BSD1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,2-Dichloropropane	48.1500	5.0	1.8	50.0000		96.3	75 - 117	4.49	20	
1,3,5-Trimethylbenzene	49.1700	5.0	1.7	50.0000		98.3	80 - 126	7.10	20	
1,3-Dichlorobenzene	45.9600	5.0	1.3	50.0000		91.9	83 - 113	3.69	20	
1,3-Dichloropropane	47.5300	5.0	1.1	50.0000		95.1	79 - 108	1.88	20	
1,4-Dichlorobenzene	45.4600	5.0	1.2	50.0000		90.9	82 - 114	3.14	20	
2,2-Dichloropropane	49.4200	5.0	1.2	50.0000		98.8	66 - 135	9.52	20	
2-Chlorotoluene	47.9500	5.0	1.6	50.0000		95.9	79 - 117	4.90	20	
4-Chlorotoluene	48.2900	5.0	1.5	50.0000		96.6	77 - 118	5.05	20	
4-Isopropyltoluene	50.2000	5.0	2.3	50.0000		100	81 - 129	8.49	20	
Benzene	97.1300	5.0	0.64	100.000		97.1	78 - 112	6.50	20	
Bromobenzene	44.7000	5.0	1.1	50.0000		89.4	79 - 111	2.78	20	
Bromochloromethane	44.2400	5.0	0.64	50.0000		88.5	69 - 116	1.90	20	
Bromodichloromethane	45.4200	5.0	1.2	50.0000		90.8	79 - 111	3.50	20	
Bromoform	43.4300	5.0	0.80	50.0000		86.9	75 - 119	1.34	20	
Bromomethane	52.9500	5.0	2.5	50.0000		106	31 - 168	15.0	20	
Carbon disulfide	50.1200	5.0	3.5	50.0000		100	54 - 141	7.56	20	
Carbon tetrachloride	50.5600	5.0	1.2	50.0000		101	74 - 125	9.62	20	
Chlorobenzene	47.4000	5.0	1.0	50.0000		94.8	83 - 112	5.68	20	
Chloroethane	54.3200	5.0	1.1	50.0000		109	53 - 144	14.0	20	
Chloroform	45.9400	5.0	0.82	50.0000		91.9	69 - 118	4.18	20	
Chloromethane	51.7700	5.0	1.4	50.0000		104	46 - 137	11.6	20	
cis-1,2-Dichloroethene	45.6200	5.0	0.67	50.0000		91.2	68 - 118	5.81	20	
cis-1,3-Dichloropropene	54.8500	5.0	1.9	50.0000		110	77 - 121	2.20	20	
Di-isopropyl ether	46.8300	5.0	0.55	50.0000		93.7	60 - 129	2.97	20	
Dibromochloromethane	45.6600	5.0	1.0	50.0000		91.3	80 - 111	1.84	20	
Dibromomethane	45.8100	5.0	1.6	50.0000		91.6	78 - 108	1.71	20	
Dichlorodifluoromethane	59.9200	5.0	2.2	50.0000		120	41 - 146	11.6	20	
Ethyl Acetate	471.170	50	8.1	500.000		94.2	52 - 130	1.24	20	
Ethyl Ether	400.350	50	6.1	500.000		80.1	54 - 138	3.30	20	
Ethyl tert-butyl ether	50.2900	5.0	0.67	50.0000		101	52 - 141	2.86	20	
Ethylbenzene	94.7900	5.0	0.91	100.000		94.8	82 - 121	8.61	20	
Freon-113	50.7300	5.0	2.8	50.0000		101	59 - 139	10.3	20	
Hexachlorobutadiene	48.8700	5.0	2.5	50.0000		97.7	69 - 143	6.74	20	
Isopropylbenzene	51.5400	5.0	1.8	50.0000		103	78 - 124	8.72	20	
m,p-Xylene	101.610	10	1.5	100.000		102	85 - 118	7.05	20	
Methylene chloride	36.5500	5.0	2.3	50.0000		73.1	44 - 146	5.20	20	
MTBE	46.5100	5.0	0.63	50.0000		93.0	61 - 122	1.56	20	
n-Butylbenzene	51.1600	5.0	2.4	50.0000		102	78 - 135	8.64	20	
n-Propylbenzene	49.0900	5.0	2.2	50.0000		98.2	78 - 127	7.49	20	
Naphthalene	49.3200	5.0	0.97	50.0000		98.6	68 - 129	4.33	20	
o-Xylene	98.8600	5.0	0.87	100.000		98.9	86 - 118	6.66	20	
sec-Butylbenzene	49.6700	5.0	2.3	50.0000		99.3	80 - 127	7.74	20	

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0400 - MSVOA_S (continued)										
LCS Dup (B9G0400-BSD1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
Styrene	49.3000	5.0	1.5	50.0000		98.6	85 - 117	4.81	20	
tert-Amyl methyl ether	50.7500	5.0	0.59	50.0000		102	48 - 135	0.138	20	
tert-Butanol	153.000	100	19	250.000		61.2	0 - 175	64.9	20	R
tert-Butylbenzene	49.8200	5.0	2.0	50.0000		99.6	81 - 122	7.05	20	
Tetrachloroethene	50.0200	5.0	1.6	50.0000		100	77 - 122	11.4	20	
Toluene	95.8600	5.0	0.94	100.000		95.9	79 - 114	6.52	20	
trans-1,2-Dichloroethene	46.1800	5.0	0.59	50.0000		92.4	66 - 125	4.00	20	
trans-1,3-Dichloropropene	47.6900	5.0	2.1	50.0000		95.4	76 - 120	0.377	20	
Trichloroethene	49.2200	5.0	3.1	50.0000		98.4	79 - 117	7.92	20	
Trichlorofluoromethane	48.7700	5.0	1.4	50.0000		97.5	55 - 133	12.5	20	
Vinyl acetate	458.620	50	9.8	500.000		91.7	52 - 141	0.513	20	
Vinyl chloride	54.9000	5.0	1.7	50.0000		110	58 - 132	10.3	20	
Surrogate: 1,2-Dichloroethane-d4	*44.35*			*50.0000*		*88.7*	*60 - 145*			
Surrogate: 4-Bromofluorobenzene	*50.67*			*50.0000*		*101*	*68 - 121*			
Surrogate: Dibromofluoromethan	*45.69*			*50.0000*		*91.4*	*65 - 137*			
Surrogate: Toluene-d8	*49.22*			*50.0000*		*98.4*	*82 - 119*			

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0428 - MSVOA_S										
Blank (B9G0428-BLK1)					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,1,1,2-Tetrachloroethane	ND	5.0	0.96							
1,1,1-Trichloroethane	ND	5.0	1.1							
1,1,2,2-Tetrachloroethane	ND	5.0	0.62							
1,1,2-Trichloroethane	ND	5.0	1.6							
1,1-Dichloroethane	ND	5.0	0.81							
1,1-Dichloroethene	ND	5.0	2.6							
1,1-Dichloropropene	ND	5.0	2.3							
1,2,3-Trichloropropane	ND	5.0	0.54							
1,2,3-Trichlorobenzene	ND	5.0	1.2							
1,2,4-Trichlorobenzene	ND	5.0	1.1							
1,2,4-Trimethylbenzene	ND	5.0	1.5							
1,2-Dibromo-3-chloropropane	ND	10	1.6							
1,2-Dibromoethane	ND	5.0	3.2							
1,2-Dichlorobenzene	ND	5.0	1.1							
1,2-Dichloroethane	ND	5.0	1.2							
1,2-Dichloropropane	ND	5.0	1.8							
1,3,5-Trimethylbenzene	ND	5.0	1.7							
1,3-Dichlorobenzene	ND	5.0	1.3							
1,3-Dichloropropane	ND	5.0	1.1							
1,4-Dichlorobenzene	ND	5.0	1.2							
2,2-Dichloropropane	ND	5.0	1.2							
2-Chlorotoluene	ND	5.0	1.6							
4-Chlorotoluene	ND	5.0	1.5							
4-Isopropyltoluene	ND	5.0	2.3							
Benzene	ND	5.0	0.64							
Bromobenzene	ND	5.0	1.1							
Bromochloromethane	ND	5.0	0.64							
Bromodichloromethane	ND	5.0	1.2							
Bromoform	ND	5.0	0.80							
Bromomethane	ND	5.0	2.5							
Carbon disulfide	ND	5.0	3.5							
Carbon tetrachloride	ND	5.0	1.2							
Chlorobenzene	ND	5.0	1.0							
Chloroethane	ND	5.0	1.1							
Chloroform	ND	5.0	0.82							
Chloromethane	ND	5.0	1.4							
cis-1,2-Dichloroethene	ND	5.0	0.67							
cis-1,3-Dichloropropene	ND	5.0	1.9							
Di-isopropyl ether	ND	5.0	0.55							
Dibromochloromethane	ND	5.0	1.0							
Dibromomethane	ND	5.0	1.6							

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Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0428 - MSVOA_S (continued)										
Blank (B9G0428-BLK1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
Dichlorodifluoromethane	ND	5.0	2.2							
Ethyl Acetate	ND	50	8.1							
Ethyl Ether	ND	50	6.1							
Ethyl tert-butyl ether	ND	5.0	0.67							
Ethylbenzene	ND	5.0	0.91							
Freon-113	ND	5.0	2.8							
Hexachlorobutadiene	ND	5.0	2.5							
Isopropylbenzene	ND	5.0	1.8							
m,p-Xylene	ND	10	1.5							
Methylene chloride	ND	5.0	2.3							
MTBE	ND	5.0	0.63							
n-Butylbenzene	ND	5.0	2.4							
n-Propylbenzene	ND	5.0	2.2							
Naphthalene	ND	5.0	0.97							
o-Xylene	ND	5.0	0.87							
sec-Butylbenzene	ND	5.0	2.3							
Styrene	ND	5.0	1.5							
tert-Amyl methyl ether	ND	5.0	0.59							
tert-Butanol	ND	100	19							
tert-Butylbenzene	ND	5.0	2.0							
Tetrachloroethene	ND	5.0	1.6							
Toluene	ND	5.0	0.94							
trans-1,2-Dichloroethene	ND	5.0	0.59							
trans-1,3-Dichloropropene	ND	5.0	2.1							
Trichloroethene	ND	5.0	3.1							
Trichlorofluoromethane	ND	5.0	1.4							
Vinyl acetate	ND	50	9.8							
Vinyl chloride	ND	5.0	1.7							
Surrogate: 1,2-Dichloroethane-d4	*47.66*			*50.0000*		*95.3*	*60 - 145*			
Surrogate: 4-Bromofluorobenzene	*48.64*			*50.0000*		*97.3*	*68 - 121*			
Surrogate: Dibromofluoromethan	*49.04*			*50.0000*		*98.1*	*65 - 137*			
Surrogate: Toluene-d8	*48.93*			*50.0000*		*97.9*	*82 - 119*			
LCS (B9G0428-BS1)					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,1,1,2-Tetrachloroethane	48.0800	5.0	0.96	50.0000		96.2	82 - 114			
1,1,1-Trichloroethane	51.6600	5.0	1.1	50.0000		103	70 - 121			
1,1,2,2-Tetrachloroethane	49.2900	5.0	0.62	50.0000		98.6	65 - 116			
1,1,2-Trichloroethane	47.6300	5.0	1.6	50.0000		95.3	73 - 114			
1,1-Dichloroethane	50.1300	5.0	0.81	50.0000		100	69 - 117			
1,1-Dichloroethene	50.0100	5.0	2.6	50.0000		100	57 - 128			
1,1-Dichloropropene	57.0300	5.0	2.3	50.0000		114	76 - 122			

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Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0428 - MSVOA_S (continued)										
LCS (B9G0428-BS1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,2,3-Trichloropropane	50.8600	5.0	0.54	50.0000		102	65 - 116			
1,2,3-Trichlorobenzene	46.0000	5.0	1.2	50.0000		92.0	72 - 130			
1,2,4-Trichlorobenzene	48.7600	5.0	1.1	50.0000		97.5	74 - 141			
1,2,4-Trimethylbenzene	50.0900	5.0	1.5	50.0000		100	81 - 126			
1,2-Dibromo-3-chloropropane	46.9400	10	1.6	50.0000		93.9	63 - 126			
1,2-Dibromoethane	46.6000	5.0	3.2	50.0000		93.2	75 - 113			
1,2-Dichlorobenzene	45.9900	5.0	1.1	50.0000		92.0	83 - 114			
1,2-Dichloroethane	49.2500	5.0	1.2	50.0000		98.5	73 - 115			
1,2-Dichloropropane	50.3600	5.0	1.8	50.0000		101	75 - 117			
1,3,5-Trimethylbenzene	51.5000	5.0	1.7	50.0000		103	80 - 126			
1,3-Dichlorobenzene	46.7900	5.0	1.3	50.0000		93.6	83 - 113			
1,3-Dichloropropane	49.2400	5.0	1.1	50.0000		98.5	79 - 108			
1,4-Dichlorobenzene	45.7700	5.0	1.2	50.0000		91.5	82 - 114			
2,2-Dichloropropane	51.7200	5.0	1.2	50.0000		103	66 - 135			
2-Chlorotoluene	49.8800	5.0	1.6	50.0000		99.8	79 - 117			
4-Chlorotoluene	50.1100	5.0	1.5	50.0000		100	77 - 118			
4-Isopropyltoluene	53.7300	5.0	2.3	50.0000		107	81 - 129			
Benzene	103.290	5.0	0.64	100.000		103	78 - 112			
Bromobenzene	45.9800	5.0	1.1	50.0000		92.0	79 - 111			
Bromochloromethane	43.7100	5.0	0.64	50.0000		87.4	69 - 116			
Bromodichloromethane	47.7200	5.0	1.2	50.0000		95.4	79 - 111			
Bromoform	44.6100	5.0	0.80	50.0000		89.2	75 - 119			
Bromomethane	59.1900	5.0	2.5	50.0000		118	31 - 168			
Carbon disulfide	53.0400	5.0	3.5	50.0000		106	54 - 141			
Carbon tetrachloride	55.5700	5.0	1.2	50.0000		111	74 - 125			
Chlorobenzene	49.4200	5.0	1.0	50.0000		98.8	83 - 112			
Chloroethane	59.4800	5.0	1.1	50.0000		119	53 - 144			
Chloroform	47.6700	5.0	0.82	50.0000		95.3	69 - 118			
Chloromethane	59.1100	5.0	1.4	50.0000		118	46 - 137			
cis-1,2-Dichloroethene	46.9400	5.0	0.67	50.0000		93.9	68 - 118			
cis-1,3-Dichloropropene	55.7900	5.0	1.9	50.0000		112	77 - 121			
Di-isopropyl ether	49.5200	5.0	0.55	50.0000		99.0	60 - 129			
Dibromochloromethane	46.9500	5.0	1.0	50.0000		93.9	80 - 111			
Dibromomethane	47.1000	5.0	1.6	50.0000		94.2	78 - 108			
Dichlorodifluoromethane	66.0900	5.0	2.2	50.0000		132	41 - 146			
Ethyl Acetate	538.800	50	8.1	500.000		108	52 - 130			
Ethyl Ether	414.770	50	6.1	500.000		83.0	54 - 138			
Ethyl tert-butyl ether	52.8400	5.0	0.67	50.0000		106	52 - 141			
Ethylbenzene	100.890	5.0	0.91	100.000		101	82 - 121			
Freon-113	54.6900	5.0	2.8	50.0000		109	59 - 139			
Hexachlorobutadiene	51.5000	5.0	2.5	50.0000		103	69 - 143			
Isopropylbenzene	55.6600	5.0	1.8	50.0000		111	78 - 124			

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Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0428 - MSVOA_S (continued)										
LCS (B9G0428-BS1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
m,p-Xylene	105.680	10	1.5	100.000		106	85 - 118			
Methylene chloride	37.4500	5.0	2.3	50.0000		74.9	44 - 146			
MTBE	45.0000	5.0	0.63	50.0000		90.0	61 - 122			
n-Butylbenzene	55.3500	5.0	2.4	50.0000		111	78 - 135			
n-Propylbenzene	52.5400	5.0	2.2	50.0000		105	78 - 127			
Naphthalene	46.8800	5.0	0.97	50.0000		93.8	68 - 129			
o-Xylene	102.180	5.0	0.87	100.000		102	86 - 118			
sec-Butylbenzene	54.1500	5.0	2.3	50.0000		108	80 - 127			
Styrene	49.9600	5.0	1.5	50.0000		99.9	85 - 117			
tert-Amyl methyl ether	50.5700	5.0	0.59	50.0000		101	48 - 135			
tert-Butanol	78.1600	100	19	250.000		31.3	0 - 175			
tert-Butylbenzene	53.0500	5.0	2.0	50.0000		106	81 - 122			
Tetrachloroethene	53.7300	5.0	1.6	50.0000		107	77 - 122			
Toluene	100.580	5.0	0.94	100.000		101	79 - 114			
trans-1,2-Dichloroethene	42.6400	5.0	0.59	50.0000		85.3	66 - 125			
trans-1,3-Dichloropropene	48.6900	5.0	2.1	50.0000		97.4	76 - 120			
Trichloroethene	52.1100	5.0	3.1	50.0000		104	79 - 117			
Trichlorofluoromethane	54.6500	5.0	1.4	50.0000		109	55 - 133			
Vinyl acetate	478.740	50	9.8	500.000		95.7	52 - 141			
Vinyl chloride	60.6900	5.0	1.7	50.0000		121	58 - 132			
Surrogate: 1,2-Dichloroethane-d4	*47.06*			*50.0000*		*94.1*	*60 - 145*			
Surrogate: 4-Bromofluorobenzene	*51.05*			*50.0000*		*102*	*68 - 121*			
Surrogate: Dibromofluoromethan	*46.25*			*50.0000*		*92.5*	*65 - 137*			
Surrogate: Toluene-d8	*49.63*			*50.0000*		*99.3*	*82 - 119*			
LCS Dup (B9G0428-BSD1)					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,1,1,2-Tetrachloroethane	41.8100	5.0	0.96	50.0000		83.6	82 - 114	14.0	20	
1,1,1-Trichloroethane	43.6500	5.0	1.1	50.0000		87.3	70 - 121	16.8	20	
1,1,2,2-Tetrachloroethane	45.4200	5.0	0.62	50.0000		90.8	65 - 116	8.17	20	
1,1,2-Trichloroethane	42.1100	5.0	1.6	50.0000		84.2	73 - 114	12.3	20	
1,1-Dichloroethane	44.0900	5.0	0.81	50.0000		88.2	69 - 117	12.8	20	
1,1-Dichloroethene	42.7300	5.0	2.6	50.0000		85.5	57 - 128	15.7	20	
1,1-Dichloropropene	47.5000	5.0	2.3	50.0000		95.0	76 - 122	18.2	20	
1,2,3-Trichloropropane	45.9900	5.0	0.54	50.0000		92.0	65 - 116	10.1	20	
1,2,3-Trichlorobenzene	41.6700	5.0	1.2	50.0000		83.3	72 - 130	9.88	20	
1,2,4-Trichlorobenzene	43.4400	5.0	1.1	50.0000		86.9	74 - 141	11.5	20	
1,2,4-Trimethylbenzene	43.6400	5.0	1.5	50.0000		87.3	81 - 126	13.8	20	
1,2-Dibromo-3-chloropropane	44.0500	10	1.6	50.0000		88.1	63 - 126	6.35	20	
1,2-Dibromoethane	41.6600	5.0	3.2	50.0000		83.3	75 - 113	11.2	20	
1,2-Dichlorobenzene	41.1700	5.0	1.1	50.0000		82.3	83 - 114	11.1	20	L3
1,2-Dichloroethane	44.0600	5.0	1.2	50.0000		88.1	73 - 115	11.1	20	

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Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0428 - MSVOA_S (continued)										
LCS Dup (B9G0428-BSD1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
1,2-Dichloropropane	44.1100	5.0	1.8	50.0000		88.2	75 - 117	13.2	20	
1,3,5-Trimethylbenzene	44.2000	5.0	1.7	50.0000		88.4	80 - 126	15.3	20	
1,3-Dichlorobenzene	41.1900	5.0	1.3	50.0000		82.4	83 - 113	12.7	20	L3
1,3-Dichloropropane	43.3500	5.0	1.1	50.0000		86.7	79 - 108	12.7	20	
1,4-Dichlorobenzene	40.8400	5.0	1.2	50.0000		81.7	82 - 114	11.4	20	L3
2,2-Dichloropropane	43.8900	5.0	1.2	50.0000		87.8	66 - 135	16.4	20	
2-Chlorotoluene	43.9100	5.0	1.6	50.0000		87.8	79 - 117	12.7	20	
4-Chlorotoluene	43.4700	5.0	1.5	50.0000		86.9	77 - 118	14.2	20	
4-Isopropyltoluene	45.8200	5.0	2.3	50.0000		91.6	81 - 129	15.9	20	
Benzene	89.2000	5.0	0.64	100.000		89.2	78 - 112	14.6	20	
Bromobenzene	40.9200	5.0	1.1	50.0000		81.8	79 - 111	11.6	20	
Bromochloromethane	39.4900	5.0	0.64	50.0000		79.0	69 - 116	10.1	20	
Bromodichloromethane	42.2400	5.0	1.2	50.0000		84.5	79 - 111	12.2	20	
Bromoform	39.1600	5.0	0.80	50.0000		78.3	75 - 119	13.0	20	
Bromomethane	49.4200	5.0	2.5	50.0000		98.8	31 - 168	18.0	20	
Carbon disulfide	46.0200	5.0	3.5	50.0000		92.0	54 - 141	14.2	20	
Carbon tetrachloride	46.0200	5.0	1.2	50.0000		92.0	74 - 125	18.8	20	
Chlorobenzene	42.9700	5.0	1.0	50.0000		85.9	83 - 112	14.0	20	
Chloroethane	49.0800	5.0	1.1	50.0000		98.2	53 - 144	19.2	20	
Chloroform	41.6700	5.0	0.82	50.0000		83.3	69 - 118	13.4	20	
Chloromethane	49.5800	5.0	1.4	50.0000		99.2	46 - 137	17.5	20	
cis-1,2-Dichloroethene	41.0600	5.0	0.67	50.0000		82.1	68 - 118	13.4	20	
cis-1,3-Dichloropropene	49.2000	5.0	1.9	50.0000		98.4	77 - 121	12.6	20	
Di-isopropyl ether	43.2500	5.0	0.55	50.0000		86.5	60 - 129	13.5	20	
Dibromochloromethane	41.7300	5.0	1.0	50.0000		83.5	80 - 111	11.8	20	
Dibromomethane	42.2400	5.0	1.6	50.0000		84.5	78 - 108	10.9	20	
Dichlorodifluoromethane	54.8900	5.0	2.2	50.0000		110	41 - 146	18.5	20	
Ethyl Acetate	475.790	50	8.1	500.000		95.2	52 - 130	12.4	20	
Ethyl Ether	384.310	50	6.1	500.000		76.9	54 - 138	7.62	20	
Ethyl tert-butyl ether	47.2100	5.0	0.67	50.0000		94.4	52 - 141	11.3	20	
Ethylbenzene	85.8700	5.0	0.91	100.000		85.9	82 - 121	16.1	20	
Freon-113	46.3200	5.0	2.8	50.0000		92.6	59 - 139	16.6	20	
Hexachlorobutadiene	44.2500	5.0	2.5	50.0000		88.5	69 - 143	15.1	20	
Isopropylbenzene	48.0200	5.0	1.8	50.0000		96.0	78 - 124	14.7	20	
m,p-Xylene	89.6700	10	1.5	100.000		89.7	85 - 118	16.4	20	
Methylene chloride	32.0900	5.0	2.3	50.0000		64.2	44 - 146	15.4	20	
MTBE	42.8000	5.0	0.63	50.0000		85.6	61 - 122	5.01	20	
n-Butylbenzene	46.6300	5.0	2.4	50.0000		93.3	78 - 135	17.1	20	
n-Propylbenzene	44.9400	5.0	2.2	50.0000		89.9	78 - 127	15.6	20	
Naphthalene	43.7800	5.0	0.97	50.0000		87.6	68 - 129	6.84	20	
o-Xylene	87.2000	5.0	0.87	100.000		87.2	86 - 118	15.8	20	
sec-Butylbenzene	45.7200	5.0	2.3	50.0000		91.4	80 - 127	16.9	20	

Certificate of Analysis

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Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9G0428 - MSVOA_S (continued)										
LCS Dup (B9G0428-BSD1) - Continued					Prepared: 7/17/2019 Analyzed: 7/17/2019					
Styrene	43.6400	5.0	1.5	50.0000		87.3	85 - 117	13.5	20	
tert-Amyl methyl ether	46.0500	5.0	0.59	50.0000		92.1	48 - 135	9.36	20	
tert-Butanol	124.140	100	19	250.000		49.7	0 - 175	45.5	20	R
tert-Butylbenzene	45.5400	5.0	2.0	50.0000		91.1	81 - 122	15.2	20	
Tetrachloroethene	44.0900	5.0	1.6	50.0000		88.2	77 - 122	19.7	20	
Toluene	86.3400	5.0	0.94	100.000		86.3	79 - 114	15.2	20	
trans-1,2-Dichloroethene	41.3500	5.0	0.59	50.0000		82.7	66 - 125	3.07	20	
trans-1,3-Dichloropropene	43.5000	5.0	2.1	50.0000		87.0	76 - 120	11.3	20	
Trichloroethene	43.8300	5.0	3.1	50.0000		87.7	79 - 117	17.3	20	
Trichlorofluoromethane	44.8900	5.0	1.4	50.0000		89.8	55 - 133	19.6	20	
Vinyl acetate	438.370	50	9.8	500.000		87.7	52 - 141	8.80	20	
Vinyl chloride	50.0800	5.0	1.7	50.0000		100	58 - 132	19.2	20	
Surrogate: 1,2-Dichloroethane-d4	*44.78*			*50.0000*		*89.6*	*60 - 145*			
Surrogate: 4-Bromofluorobenzene	*49.51*			*50.0000*		*99.0*	*68 - 121*			
Surrogate: Dibromofluoromethan	*46.41*			*50.0000*		*92.8*	*65 - 137*			
Surrogate: Toluene-d8	*49.65*			*50.0000*		*99.3*	*82 - 119*			

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Notes and Definitions

S10	Surrogate recovery was outside of laboratory acceptance limit due to possible matrix interference.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
L4	Laboratory Control Sample outside of control limit but within Marginal Exceedance (ME) limit.
L3	Laboratory control sample outside in-house established limits but within method criteria.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
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CHAIN OF CUSTODY RECORD

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Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20180415

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☒	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED		
☐ GSO	3. CONTAINER INTACT	☒	☐	7. COOLER TEMP, deg C:		
☐ Other: DC	4. SEALED	☐	☒			

CUSTOMER

Company: Leighton and Associates, Inc.	Address: 17781 Cowan		Tel: (949) 681-4208
	City: Irvine	State: CA Zip: 92614	Fax: (949) 250-1114
SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO		EDD: ☐ Excel ☐ EDF ☐ Equis ☐ _____
Attn: Meredith Church Email: mchurch@leightongroup.com	Attn: Accounts Payable Email: Acctpayable@leightongroup.com		QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV ☐ _____
Company: Leighton Consulting, Inc.	Company: Leighton and Associates, Inc.		
Address: 17781 Cowan	Address: 17781 Cowan		
City: Irvine State: CA Zip: 92614	City: Irvine State: CA Zip: 92614		

PROJECT SAMPLES

Project Name:	Quote #:	Special Instructions/Comments:
Brookfield - Moiola School, FV	Leighton 2019	
Project No.: 12418.001	PO #: 12418.001	
Sampler: Meredith Church, Steffani Seiler		

ITEM	Laboratory ID (For Lab Use Only)	Sample Description: Sample ID / Location	Date	Time	8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic EPA 6010	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Container: Quantity	Container: Type	Container: Material	Container: Preservative	Remarks
1	1902701-01	B1-1.0	07/16/19	1405	X								X										X						2	1	5	1	4	
2	-02	B1-2.5	07/16/19	1407	X								X										X						2	1	5	1	4	
3	-03	B1-5.0	07/16/19	1409	X																		X						2	1	5	1	4	
4	-04	B2-1.0	07/16/19	1402	X								X										X						2	1	5	1	4	
5	-05	B2-2.5	07/16/19	1404	X								X										X						2	1	5	1	4	
6	-06	B2-5.0	07/16/19	1406	X																		X						2	1	5	1	4	
7	-07	B3-1.0	07/16/19	11 10	X								X										X						2	1	5	1	4	
8	-08	B3-2.5	07/16/19	11 15	X								X										X						2	1	5	1	4	
9	-09	B3-5.0	07/16/19	1117	X																		X						2	1	5	1	4	
10	-10	B3-5.0D	07/16/19	~~1118~~	X																		X						2	1	5	1	4	

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
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3. The following turnaround time conditions apply:
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   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
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7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
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10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.
12. The laboratory will randomly select from all QC samples received the sample to spike for Matrix Spike/ Matrix Spike Duplicate (MS/MSD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Steffani Seiler	07/16/19	1510		7/16/19	16:38
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	7/16/19	3:10			
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Lucinda Nauven	7/16/19	17:53	FEDEX	7/16/19	1753

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

~~Meredith Church~~ Steffani Seiler (Printed Name) — Signature

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 2 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20180415

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☑ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED		
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton and Associates, Inc.	Address: 17781 Cowan		Tel: (949) 681-4208
	City: Irvine	State: CA Zip: 92614	Fax: (949) 250-1114
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Attn: Meredith Church Email: mchurch@leightongroup.com	Attn: Accounts Payable Email: Acctpayable@leightongroup.com		QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV ☐ _____
Company: Leighton and Associates, Inc.	Company: Leighton and Associates, Inc.		
Address: 17781 Cowan	Address: 17781 Cowan		
City: Irvine State: CA Zip: 92614	City: Irvine State: CA Zip: 92614		

PROJECT SAMPLES

Project Name:	Quote #:	Special Instructions/Comments:
Brookfield - Moiola School, FV	Leighton 2019	
Project No.: 12418.001	PO #: 12418.001	
Sampler: Meredith Church, Steffani Seiler		

ITEM	Laboratory ID (For Lab Use Only)	Sample Description: Sample ID / Location	Date	Time	Requested Analysis: 8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic EPA 6010	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Sample Matrix: Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Container: Quantity	Container: Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Container: Material: 1=Glass; 2=Plastic; 3=Metal	Container: Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 =4C; 5=Zn(Ac)2; 6=NaOH; 7=NaA2S2O3	Remarks
1		~~B4-1.0~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
2		~~B4-2.5~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
3		~~B4-5.0~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
4	1903701-11	B5-1.0	07/16/19	1351	X								X										X						2	1	5	1	4	
5	-12	B5-2.5	07/16/19	1354	X								X										X						2	1	5	1	4	
6	-13	B5-2.5D	07/16/19		X								X										X						2	1	5	1	4	
7	-14	B5-5.0	07/16/19		X								X										X						2	1	5	1	4	
8	-15	B6-1.0	07/16/19	1053	X								X										X						2	1	5	1	4	
9	-16	B6-2.5	07/16/19	1055	X								X										X						2	1	5	1	4	
10	-17	B6-5.0	07/16/19	1058	X								X										X						2	1	5	1	4	

TERMS

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CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Steffani Seiler	07/16/19	1510	[illegible]	7/16/19	16:38
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
[illegible]	7/16/19	1723			
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
[illegible]	7/16/19	17:52	[illegible]	7/16/19	1753

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

~~Meredith Church~~ Steffani Seiler (Printed Name) — Steffani Seiler (Signature)

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 3 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only ATLCOC Ver:20180415

Method of Transport			Sample Conditions Upon Receipt					
			Condition	Y	N	Condition	Y	N
☑ Client	☐ ATL		1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx	☐ OnTrac		2. HEADSPACE (VOA)	☐	☐	6. PRESERVED		
☐ GSO			3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:			4. SEALED	☐	☐			

CUSTOMER

Company: Leighton and Associates, Inc.		Address: 17781 Cowan	Tel: (949) 681-4208
		City: Irvine State: CA Zip: 92614	Fax: (949) 250-1114
SEND REPORT TO:		SEND INVOICE TO: ☐ same as SEND REPORT TO	EDD: ☑ Excel ☐ EDF ☐ Equis ☐ _____
Attn: Meredith Church	Email: mchurch@leightongroup.com	Attn: Accounts Payable	Email: Acctpayable@leightongroup.com
Company: Leighton and Associates, Inc.		Company: Leighton and Associates, Inc.	QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV ☐ _____
Address: 17781 Cowan		Address: 17781 Cowan	
City: Irvine State: CA Zip: 92614		City: Irvine State: CA Zip: 92614	

PROJECT SAMPLES

Project Name:	Quote #:	Special Instructions/Comments:
Brookfield - Moiola School, FV	Leighton 2019	
Project No.: 12418.001	PO #: 12418.001	
Sampler: Meredith Church, Steffani Seiler		

ITEM	Laboratory ID (For Lab Use Only)	Sample Description: Sample ID / Location	Date	Time	8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic EPA 6010	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Container: Quantity	Container: Type	Container: Material	Container: Preservative	Remarks
					8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic EPA 6010	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Quantity	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn(Ac)2; 6=NaOH; 7=NA2S2O3	
1		~~B7-1.0~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
2		~~B7-2.5~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
3		~~B7-5.0~~	~~07/16/19~~		X																		X						2	1	5	1	4	
4	AQ02701-18	B7-GW	07/16/19			X																			X				2		2	1	1/4	
5	-19	B8-1.0	07/16/19	1348	X								X										X						2	1	5	1	4	
6	-20	B8-2.5	07/16/19	1350	X								X										X						2	1	5	1	4	
7	-21	B8-5.0	07/16/19	1353	X																		X						2	1	5	1	4	
8	-22	B9-1.0	07/16/19	1337	X								X										X						2	1	5	1	4	
9	-23	B9-2.5	07/16/19	1340	X								X										X						2	1	5	1	4	
10	-24	B9-5.0	07/16/19	1342	X																		X						2	1	5	1	4	

TERMS

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CUSTODY

Relinquished by: (Signature and Printed Name) Steffani Seiler	Date: 07/16/19	Time: 1510	Received by: (Signature and Printed Name)	Date: 7/16/19	Time: 16:35
Relinquished by: (Signature and Printed Name)	Date: 7/16/19	Time: 3:23	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date: 7/16/19	Time: 17:53	Received by: (Signature and Printed Name)	Date: 7/16/19	Time: 1753

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

~~Meredith Church~~ Steffani Seiler (Printed Name) — Steffani Seiler (Signature)

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 4 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20180415

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☑ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED		
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton and Associates, Inc.	Address: 17781 Cowan		Tel: (949) 681-4208
	City: Irvine	State: CA Zip: 92614	Fax: (949) 250-1114
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Attn: Meredith Church Email: mchurch@leightongroup.com	Attn: Accounts Payable Email: Acctpayable@leightongroup.com		QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV ☐ _____
Company: Leighton and Associates, Inc.	Company: Leighton and Associates, Inc.		
Address: 17781 Cowan	Address: 17781 Cowan		
City: Irvine State: CA Zip: 92614	City: Irvine State: CA Zip: 92614		

PROJECT SAMPLES

Project Name: Brookfield - Moiola School, FV
Project No.: 12418.001
Sampler: Meredith Church, Steffani Seiler
Quote #: Leighton 2019
PO #: 12418.001
Special Instructions/Comments:

ITEM	Laboratory ID (For Lab Use Only)	Sample Description: Sample ID / Location	Date	Time	8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic EPA 6010	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Container: Quantity	Container: Type (1=Tube, 2=VOA, 3=Liter, 4=Pint, 5=Jar, 6=Tedlar, 7=Canister)	Container: Material (1=Glass, 2=Plastic, 3=Metal)	Container: Preservative (1=HCl, 2=HNO3, 3=H2SO4, 4=4oC, 5=EnCore, 6=NaOH, 7=NH4OH)	Remarks
1	1902701-25	B10-1.0	07/16/19	1221	X								X										X						2	1	5	1	4	
2	-26	B10-1.0D	07/16/19	~~1223~~	X								X										X						2	1	5	1	4	
3	-27	B10-2.5	07/16/19	1223	X								X										X						2	1	5	1	4	
4	-28	B10-5.0	07/16/19	1227	X	X																	X						2	4	5	1	1	5035
5	-29	B10-10.0	07/16/19	1240		X																	X						2	4	5	1	4	5035
6	-30	B10-GW	07/16/19	1245		X																			X				2		2	1	1,4	
7	-31	B11-1.0	07/16/19	1142	X								X										X						2	1	5	1	4	
8	-32	B11-2.5	07/16/19	1145	X								X										X						2	1	5	1	4	
9	-33	B11-5.0	07/16/19	1147	X																		X						2	1	5	1	4	
10	-34	B11-GW	07/16/19	1200		X																			X				2		2	1	1/4	

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12. The laboratory will randomly select from all QC samples received the sample to spike for Matrix Spike/ Matrix Spike Duplicate (MS/MSD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Steffani Seiler	07/16/19	1510			
	7/16/19	3:23		7/16/19	16:38
	7/16/19	17:53		7/16/19	1753

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

~~Meredith Church~~ Steffani Seiler (Printed Name) — (Signature)

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 5 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20180415

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☑ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED		
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton and Associates, Inc.	Address: 17781 Cowan		Tel: (949) 681-4208
	City: Irvine	State: CA Zip: 92614	Fax: (949) 250-1114
SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO		EDD: ☑ Excel ☐ EDF ☐ Equis ☐ _____
Attn: Meredith Church	Attn: Accounts Payable	Email: Acctpayable@leightongroup.com	QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV ☐ _____
Company: Leighton and Associates, Inc.	Company: Leighton and Associates, Inc.		
Address: 17781 Cowan	Address: 17781 Cowan		
City: Irvine State: CA Zip: 92614	City: Irvine State: CA Zip: 92614		

PROJECT SAMPLES

Project Name:	Quote #:	Special Instructions/Comments:
Brookfield - Moiola School, FV	Leighton 2019	
Project No.: 12418.001	PO #: 12418.001	
Sampler: Meredith Church, Steffani Seiler		

ITEM	Laboratory ID (For Lab Use Only)	Sample Description: Sample ID / Location	Date	Time	8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic EPA 6010	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Container: Quantity	Container: Type	Container: Material	Container: Preservative	Remarks
1		~~B12-1.0~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
2		~~B12-1.0D~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
3		~~B12-2.5~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
4		~~B12-5.0~~	~~07/16/19~~		X																		X						2	1	5	1	1	
5	1902701-35	B13-1.0	07/16/19	1257	X	X							X										X						2	4	5	1	4	5035
6	-36	B13-2.5	07/16/19	1300	X	X							X										X						2	4	5	1	4	5035
7	-37	B13-5.0	07/16/19	1303	X	X																	X						2	4	5	1	4	5035
8	-38	B13-10.0	07/16/19	1310	X	X																	X						2	4	5	1	4	5035
9	-39	B13-GW	07/16/19	1320		X																			X				2	3	2	1	1/4	
10	-40	B13-GWD	07/16/19			X																			X				2	3	2	1	1/4	

TERMS

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CUSTODY

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Steffani Seiler	07/16/19	1510			
	7/16/19	3:23		7/16/19	16:38
Emelda Nava	7/16/19	17:53		7/16/19	1753

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ADVANCED TECHNOLOGY LABORATORIES
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Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only ATLCOC Ver:20180415

Method of Transport		Sample Conditions Upon Receipt					
		Condition	Y	N	Condition	Y	N
☑ Client	☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx	☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED		
☐ GSO		3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:		4. SEALED	☐	☐			

CUSTOMER

Company: Leighton and Associates, Inc.		Address: 17781 Cowan	Tel: (949) 681-4208
		City: Irvine State: CA Zip: 92614	Fax: (949) 250-1114
SEND REPORT TO:		SEND INVOICE TO: ☐ same as SEND REPORT TO	EDD: ☑ Excel ☐ EDF ☐ Equis ☐ _____
Attn: Meredith Church	Email: mchurch@leightongroup.com	Attn: Accounts Payable	Email: Acctpayable@leightongroup.com
Company: Leighton and Associates, Inc.		Company: Leighton and Associates, Inc.	QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV ☐ _____
Address: 17781 Cowan		Address: 17781 Cowan	
City: Irvine State: CA Zip: 92614		City: Irvine State: CA Zip: 92614	

PROJECT SAMPLES

Project Name: Brookfield - Moiola School, FV
Project No.: 12418.001
Sampler: Meredith Church, Steffani Seiler
Quote #: Leighton 2019
PO #: 12418.001
Special Instructions/Comments:

ITEM	Laboratory ID (For Lab Use Only)	Sample Description: Sample ID / Location	Date	Time	8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic EPA 6010	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Container: Quantity	Container: Type	Container: Material	Container: Preservative	Remarks
1		~~B14-1.0~~	~~07/16/19~~		X	X							X										X						2	4	5	1	4	5035
2		~~B14-2.5~~	~~07/16/19~~		X	X							X										X						2	4	5	1	4	5035
3		~~B14-2.5D~~	~~07/16/19~~		X	X							X										X						2	4	5	1	4	5035
4		~~B14-5.0~~	~~07/16/19~~		X	X																	X						2	4	5	1	1	5035
5		~~B14-10.0~~	~~07/16/19~~			X																	X						2	4	5	1	4	5035
6	1902701-01	B14-GW	07/16/19			X																			X				2		2	1	1,4	
7		~~B15-1.0~~	~~07/16/19~~		X								X										X						2	4	5	1	4	
8		~~B15-2.5~~	~~07/16/19~~		X								X										X						2	4	5	1	4	
9		~~B15-5.0~~	~~07/16/19~~		X																		X						2		2	1	1,4	
10																																		

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CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Steffani Seiler	07/16/19	1510			
	7/16/19	3:23			
	7/16/19	17:53		7/16/19	17:53

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~~Meredith Church~~ Steffani Seiler (Printed Name)

(Signature)

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
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CHAIN OF CUSTODY RECORD

Page 7 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20180415

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☑ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED		
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton and Associates, Inc.	Address: 17781 Cowan		Tel: (949) 681-4208
	City: Irvine	State: CA Zip: 92614	Fax: (949) 250-1114
SEND REPORT TO:	SEND INVOICE TO: ☐ same as SEND REPORT TO		EDD: ☑ Excel ☐ EDF ☐ Equis ☐ _____
Attn: Meredith Church Email: mchurch@leightongroup.com	Attn: Accounts Payable Email: Acctpayable@leightongroup.com		QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV ☐ _____
Company: Leighton and Associates, Inc.	Company: Leighton and Associates, Inc.		
Address: 17781 Cowan	Address: 17781 Cowan		
City: Irvine State: CA Zip: 92614	City: Irvine State: CA Zip: 92614		

PROJECT SAMPLES

Project Name:	Quote #:	Special Instructions/Comments:
Brookfield - Moiola School, FV	Leighton 2019	
Project No.: 12418.001	PO #: 12418.001	
Sampler: Meredith Church, Steffani Seiler		

ITEM	Laboratory ID (For Lab Use Only)	Sample Description: Sample ID / Location	Date	Time	8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic EPA 6010	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Container: Quantity	Container: Type (1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister)	Container: Material (1=Glass; 2=Plastic; 3=Metal)	Container: Preservative (1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=ZnAc2; 6=NaOH; 7=NA2S2O3)	Remarks
1		~~B16-1.0~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
2		~~B16-2.5~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
3		~~B16-5.0~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
4		~~B17-1.0~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
5		~~B17-2.5~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
6		~~B17-5.0~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
7		~~B18-1.0~~	~~07/16/19~~		X								X										X						2	1	5	1	4	
8		~~B18-2.5~~	07/16/19		X								X										X						2	1	5	1	4	
9		~~B18-5.0~~	~~07/16/19~~		X																		X						2	1	5	1	4	
10																																			

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CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Steffani Seiler	07/16/19	1510			
	7/16/19	3:13		7/16/19	16:38
	7/16/19	17:53		7/16/19	1753

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CHAIN OF CUSTODY RECORD

Page 8 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20180415

Method of Transport		Sample Conditions Upon Receipt					
		Condition	Y	N	Condition	Y	N
☑ Client ☐ ATL		1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac		2. HEADSPACE (VOA)	☐	☐	6. PRESERVED		
☐ GSO		3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:		4. SEALED	☐	☐			

CUSTOMER

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SEND REPORT TO:		SEND INVOICE TO: ☐ same as SEND REPORT TO	
Attn: Meredith Church	Email: mchurch@leightongroup.com	Attn: Accounts Payable	Email: Acctpayable@leightongroup.com
Company: Leighton and Associates, Inc.		Company: Leighton and Associates, Inc.	
Address: 17781 Cowan		Address: 17781 Cowan	
City: Irvine / State: CA / Zip: 92614		City: Irvine / State: CA / Zip: 92614	

EDD: ☑ Excel ☐ EDF ☐ Equis ☐ _____

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV ☐ _____

PROJECT SAMPLES

Project Name: Brookfield - Moiola School, FV
Project No.: 12418.001
Sampler: Meredith Church, Steffani Seiler
Quote #: Leighton 2019
PO #: 12418.001
Special Instructions/Comments:

ITEM	Laboratory ID (For Lab Use Only)	Sample Description: Sample ID / Location	Date	Time
1		~~B19-1.0~~	~~07/16/19~~	
2		~~B19-2.5~~	~~07/16/19~~	
3		~~B19-5.0~~	~~07/16/19~~	
4		~~B19-5.0D~~	~~07/16/19~~	
5		~~B20-1.0~~	~~07/16/19~~	
6		~~B20-2.5~~	07/16/19	
7		~~B20-5.0~~	~~07/16/19~~	
8		~~B21-1.0~~	07/16/19	
9		~~B21-2.5~~	07/16/19	
10		~~B21-5.0~~	07/16/19	

Requested Analysis: 8081 (Organochlorine Pesticides); 8260 / 624 (Volatiles); 8015 (DRO); 6010 / 7000 (Title 22 Metals); Select Analysis; Select Analysis; Select Analysis; Select Analysis; Arsenic EPA 6010; Enter Custom Analysis (x14)

Sample Matrix: Select Soil Matrix; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Non-aqueous Matrix; Enter Custom Matrix

Turnaround Time (TAT): 2 (all)

Container: Quantity: 1 (all); Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister: 5 (all); Material: 1=Glass; 2=Plastic; 3=Metal: 1 (all); Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn(Ac)2; 6=NaOH; 7=NA2S2O3: 4 (all)

Remarks:

TERMS

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	7/16/19	3:23		7/16/19	16:38
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CHAIN OF CUSTODY RECORD

Page 9 of 9

Instruction: Complete all shaded areas.

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Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☑ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED		
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company: Leighton and Associates, Inc.
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614
Tel: (949) 681-4208
Fax: (949) 250-1114

SEND REPORT TO:
Attn: Meredith Church Email: mchurch@leightongroup.com
Company: Leighton and Associates, Inc.
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: Accounts Payable Email: Acctpayable@leightongroup.com
Company: Leighton and Associates, Inc.
Address: 17781 Cowan
City: Irvine State: CA Zip: 92614

EDD: ☑ Excel ☐ EDF ☐ Equis ☐ _____
QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV ☐ _____

PROJECT SAMPLES

Project Name: Brookfield - Moiola School, FV
Project No.: 12418.001
Sampler: Meredith Church, Steffani Seiler
Quote #: Leighton 2019
PO #: 12418.001
Special Instructions/Comments: 8015-DRO & ORO Drum Sample 8260 - VOCs & GRO

ITEM	Laboratory ID (For Lab Use Only)	Sample Description: Sample ID / Location	Date	Time
1	190270[illegible]-01	Trip Blank	07/16/19	
2	-03	Drum	07/16/19	
3				
4				
5				
6				
7				
8				
9				
10				

Requested Analysis: 8081 (Organochlorine Pesticides); 8260 / 624 (Volatiles); 8015 (DRO); 6010 / 7000 (Title 22 Metals); Select Analysis; Select Analysis; Select Analysis; Select Analysis; Arsenic EPA 6010; Enter Custom Analysis; Enter Custom Analysis; Enter Custom Analysis; Enter Custom Analysis; Enter Custom Analysis; Enter Custom Analysis; Enter Custom Analysis; Enter Custom Analysis; Enter Custom Analysis

ITEM	8081	8260	8015	6010	Sample Matrix: Soil	Solid	Water	Wastewater	Non-aqueous	Custom	Turnaround Time (TAT)	Container: Quantity	Type	Material	Preservative	Remarks
1		X					X				2	2	2	1	4	
2	X	X	X	X							2	1	5	1	4	
3																
4																
5																
6																
7																
8																
9																
10																

Container — Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister
Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=ZnAc2; 6=NaOH; 7=NA2SO3

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples submitted AFTER 3:00 PM are considered received the following business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work --- ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20 sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reformatted report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.
12. The laboratory will randomly select from all QC samples received the sample to spike for Matrix Spike/ Matrix Spike Duplicate (MS/MSD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Steffani Seiler	07/16/19	1510			
Relinquished by: (Signature and Printed Name)	Date: 7/16/19	Time: 3:23	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date: 7/16/19	Time: 17:53	Received by: (Signature and Printed Name)	Date: 7/16/19	Time: 1753

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

~~Meredith Church~~ Steffani Seiler (Printed Name) — (Signature)

APPENDIX J

GBA GEOENVIRONMENTAL REPORT

Leighton

Important Information about This

Geoenvironmental Report

Geoenvironmental studies are commissioned to gain information about environmental conditions on and beneath the surface of a site. The more comprehensive the study, the more reliable the assessment is likely to be. But remember: Any such assessment is to a greater or lesser extent based on professional opinions about conditions that cannot be seen or tested. Accordingly, no matter how many data are developed, risks created by unanticipated conditions will always remain. *Have realistic expectations.* Work with your geoenvironmental consultant to manage known and unknown risks. Part of that process should already have been accomplished, through the risk allocation provisions you and your geoenvironmental professional discussed and included in your contract's general terms and conditions. This document is intended to explain some of the concepts that may be included in your agreement, and to pass along information and suggestions to help you manage your risk.

Beware of Change; Keep Your Geoenvironmental Professional Advised

The design of a geoenvironmental study considers a variety of factors that are subject to change. Changes can undermine the applicability of a report's findings, conclusions, and recommendations. *Advise your geoenvironmental professional about any changes you become aware of.* Geoenvironmental professionals cannot accept responsibility or liability for problems that occur because a report fails to consider conditions that did not exist when the study was designed. Ask your geoenvironmental professional about the types of changes you should be particularly alert to. Some of the most common include:

- modification of the proposed development or ownership group,
- sale or other property transfer,
- replacement of or additions to the financing entity,
- amendment of existing regulations or introduction of new ones, or
- changes in the use or condition of adjacent property.

Should you become aware of any change, *do not rely on a geoenvironmental report.* Advise your geoenvironmental professional immediately; follow the professional's advice.

Recognize the Impact of Time

A geoenvironmental professional's findings, recommendations, and conclusions cannot remain valid indefinitely. The more time that passes, the more likely it is that important latent changes will occur. *Do not rely on a geoenvironmental report if too much time has elapsed since it was completed.* Ask your environmental professional to define "too much time." In the case of Phase I Environmental Site Assessments (ESAs), for example, more than 180 days after submission is generally considered "too much."

Prepare To Deal with Unanticipated Conditions

The findings, recommendations, and conclusions of a Phase I ESA report typically are based on a review of historical information, interviews, a site "walkover," and other forms of noninvasive research. When site subsurface conditions are not sampled in any way, the risk of unanticipated conditions is higher than it would otherwise be.

While borings, installation of monitoring wells, and similar invasive test methods can help reduce the risk of unanticipated conditions, *do not overvalue the effectiveness of testing.* Testing provides information about actual conditions only at the precise locations where samples are taken, and only when they are taken. Your geoenvironmental

professional has applied that specific information to develop a general opinion about environmental conditions. *Actual conditions in areas not sampled may differ (sometimes sharply) from those predicted in a report.* For example, a site may contain an unregistered underground storage tank that shows no surface trace of its existence. *Even conditions in areas that were tested can change*, sometimes suddenly, due to any number of events, not the least of which include occurrences at adjacent sites. Recognize, too, that *even some conditions in tested areas may go undiscovered,* because the tests or analytical methods used were designed to detect only those conditions assumed to exist.

Manage your risks by retaining your geoenvironmental professional to work with you as the project proceeds. Establish a contingency fund or other means to enable your geoenvironmental professional to respond rapidly, in order to limit the impact of unforeseen conditions. And to help prevent any misunderstanding, identify those empowered to authorize changes and the administrative procedures that should be followed.

Do Not Permit Any Other Party To Rely on the Report

Geoenvironmental professionals design their studies and prepare their reports to meet the specific needs of the clients who retain them, in light of the risk management methods that the client and geoenvironmental professional agree to, and the statutory, regulatory, or other requirements that apply. The study designed for a developer may differ sharply from one designed for a lender, insurer, public agency...or even another developer. *Unless the report specifically states otherwise, it was developed for you and only you.* Do not unilaterally permit any other party to rely on it. The report and the study underlying it may not be adequate for another party's needs, and you could be held liable for shortcomings your geoenvironmental professional was powerless to prevent or anticipate. Inform your geoenvironmental professional when you know or expect that someone else—a third-party—will want to use or rely on the report. *Do not permit third-party use or reliance until you first confer with the geoenvironmental professional who prepared the report.* Additional testing, analysis, or study may be required and, in any event, appropriate terms and conditions should be agreed to so both you and your geoenvironmental professional are protected from third-party risks. *Any party who relies on a geoenvironmental report without the express written permission of the professional who prepared it and the client for whom it was prepared may be solely liable for any problems that arise.*

Avoid Misinterpretation of the Report

Design professionals and other parties may want to rely on the report in developing plans and specifications. They need to be advised, in writing, that their needs may not have been considered when the study's scope was developed, and, even if their needs were considered, they might misinterpret geoenvironmental findings, conclusions, and recommendations. *Commission your geoenvironmental professional to explain pertinent elements of the report to others who are permitted to rely on it, and to review any plans, specifications or other instruments of professional service that incorporate any of the report's findings, conclusions, or recommendations.* Your geoenvironmental professional has the best understanding of the issues involved, including the fundamental assumptions that underpinned the study's scope.

Give Contractors Access to the Report

Reduce the risk of delays, claims, and disputes by giving contractors access to the full report, *providing that it is accompanied by a letter of transmittal that can protect you* by making it unquestionably clear that: 1) the study was not conducted and the report was not prepared for purposes of bid development, and 2) the findings, conclusions, and recommendations included in the report are based on a variety of opinions, inferences, and assumptions and are subject to interpretation. Use the letter to also advise contractors to consult with your geoenvironmental professional to obtain clarifications, interpretations, and guidance (a fee may be required for this service), and that—in any event—they should conduct additional studies to obtain the specific type and extent of information each prefers for preparing a bid or cost estimate. Providing access to the full report, with the appropriate caveats, helps prevent formation of adversarial attitudes and claims of concealed or differing conditions. If a contractor elects to ignore the warnings and advice in the letter of transmittal, it would do so at its own risk. Your geoenvironmental professional should be able to help you prepare an effective letter.

Do Not Separate Documentation from the Report

Geoenvironmental reports often include supplemental documentation, such as maps and copies of regulatory files, permits, registrations, citations, and correspondence with regulatory agencies. If subsurface explorations were performed, the report may contain final boring logs and copies of laboratory data. If remediation activities occurred on site, the report may include: copies of daily field reports; waste manifests; and information about the disturbance of subsurface materials, the type and thickness of any fill placed on site, and fill placement practices, among other types of documentation. *Do not separate supplemental documentation from the report. Do not, and do not permit any other party to redraw or modify any of the supplemental documentation for incorporation into other professionals' instruments of service.*

Understand the Role of Standards

Unless they are incorporated into statutes or regulations, standard practices and standard guides developed by the American Society for Testing and Materials (ASTM) and other recognized standards-developing organizations (SDOs) are little more than aspirational methods agreed to by a consensus of a committee. The committees that develop standards may not comprise those best-qualified to establish methods and, no matter what, no standard method can possibly consider the infinite client- and project-specific variables that fly in the face of the theoretical "standard conditions" to which standard practices and standard guides apply. In fact, these variables can be so pronounced that geoenvironmental professionals who comply with every directive of an ASTM or other standard procedure could run afoul of local custom and practice, thus violating the standard of care. Accordingly, when geoenvironmental professionals indicate in their reports that they have performed a service "in general compliance" with one standard or another, it means they have applied professional judgement in creating and implementing a scope of service designed for the specific client and project involved, and which follows some of the general precepts laid out in the referenced standard. To the extent that a report indicates "general compliance" with a standard, you may wish to speak with your geoenvironmental professional to learn more about what was and was not done. *Do not assume a given standard was followed to the letter.* Research indicates that that seldom is the case.

Realize That Recommendations May Not Be Final

The technical recommendations included in a geoenvironmental report are based on assumptions about actual conditions, and so are preliminary or tentative. Final recommendations can be prepared only by observing actual conditions as they are exposed. For that reason, you should retain the geoenvironmental professional of record to observe construction and/or remediation activities on site, to permit rapid response to unanticipated conditions. *The geoenvironmental professional who prepared the report cannot assume responsibility or liability for the report's recommendations if that professional is not retained to observe relevant site operations.*

Understand That Geotechnical Issues Have Not Been Addressed

Unless geotechnical engineering was specifically included in the scope of professional service, a report is not likely to relate any findings, conclusions, or recommendations about the suitability of subsurface materials for construction purposes, especially when site remediation has been accomplished through the removal, replacement, encapsulation, or chemical treatment of on-site soils. The equipment, techniques, and testing used by geotechnical engineers differ markedly from those used by geoenvironmental professionals; their education, training, and experience are also significantly different. If you plan to build on the subject site, but have not yet had a geotechnical engineering study conducted, your geoenvironmental professional should be able to provide guidance about the next steps you should take. The same firm may provide the services you need.

Read Responsibility Provisions Closely

Geoenvironmental studies cannot be exact; they are based on professional judgement and opinion. Nonetheless, some clients, contractors, and others assume geoenvironmental reports are or certainly should be unerringly precise. Such assumptions have created unrealistic expectations that have led to wholly unwarranted claims and disputes. To help prevent such problems, geoenvironmental professionals have developed a number of report provisions and contract terms that explain who is responsible for what, and how risks are to be allocated. Some people mistake these for "exculpatory clauses," that is, provisions whose purpose is to transfer one party's rightful responsibilities and liabilities to someone else. Read the responsibility provisions included in a report and in the contract you and your geoenvironmental professional agreed to. *Responsibility provisions are not "boilerplate."* They are important.

Rely on Your Geoenvironmental Professional for Additional Assistance

Membership in the Geoprofessional Business Association exposes geoenvironmental professionals to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a geoenvironmental project. Confer with your GBA-member geoenvironmental professional for more information.

GEOPROFESSIONAL BUSINESS ASSOCIATION

8811 Colesville Road/Suite G106, Silver Spring, MD 20910
Telephone: 301/565-2733 Facsimile: 301/589-2017
e-mail: info@geoprofessional.org www.geoprofessional.org

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