

Appendix D

Phase II ESA



northgate
environmental management, inc.

CONSOLIDATED PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

**16800 Magnolia Street, and
9025-9063 Recreation Circle
Fountain Valley, California**

Prepared For:

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August 14, 2024

Project No. 2047.28.03

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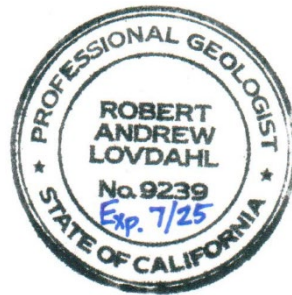
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Submitted To:

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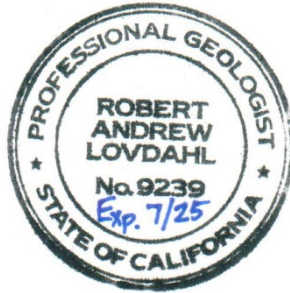
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CERTIFICATION

All geologic information, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by a Northgate California Professional Geologist.



August 14, 2024

Rob Lovdahl, PG
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Date

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1.0 INTRODUCTION

This report presents the results of the Consolidated Phase II Environmental Site Assessment (ESA) performed by Northgate Environmental Management, Inc. (Northgate) for Holland Acquisition Co., LLC (Holland). This report consolidates the results and findings from the initial Northgate Phase II ESA Report dated June 29, 2021 (Northgate, 2021a) and Additional Phase II ESA Report dated May 16, 2024 (Northgate, 2024a). The Phase II studies were performed to support a planned multi-family apartment development of the entire Site.

The combined Phase II investigations included the analysis of six concrete samples, 41 soil samples collected from 19 borings for organochlorine pesticide (OCP) analysis, three soil samples collected from three borings for soil physical parameters as part of a vapor transport analysis, 21 soil vapor samples collected from 21 temporary soil vapor probes (SVPs), and three groundwater samples from temporary wells to complete the contaminant extent delineation.

Results summary:

Concrete: No contaminants above residential screening levels were detected in concrete samples except for total petroleum hydrocarbons — motor oil range (TPH-mo) in one sample. Based on the sample results, the concrete would be acceptable for crushing and reuse onsite, or could be disposed of as non-hazardous.

Soil: No contaminants were detected in the soil samples above residential screening levels except for the pesticide toxaphene in four shallow samples. One sample reported toxaphene above the commercial Department of Toxic Substances Control-Modified Screening Levels (DTSC-SL).

Soil Vapor: All volatile organic compounds (VOCs) detected in soil vapor were below their respective residential and commercial screening levels (assuming the most conservative default attenuation factor [AF] of 0.03) with the exception of 1,3 butadiene, benzene, bromodichloromethane, chloroform, ethylbenzene, tetrachloroethene (PCE), trichloroethylene (TCE), 1,2,4 trimethylbenzene, and m,p-xylenes. In general, the fuel-related VOCs were located near the former underground storage tank (UST) and the chloroform and related compounds were in the vicinity of the bumper-boat pool, both in the southern portion of the Site.

Groundwater: No compounds were detected above drinking water maximum contaminant levels (MCLs).

The consolidation of the two Phase II ESA reports was done as requested by the Orange County Health Care Agency (OCHCA). Investigation activities were completed at the property located at



16800 Magnolia Street, and 9025-9063 Recreation Circle in Fountain Valley, California (the Site). Regulatory closure was granted by the OCHCA under the Low Threat Closure Policy (LTCP) for removal of impacted soil associated with underground storage tank removal. The closure form indicated that the OCHCA should be notified if a land use change was anticipated. Follow up discussions with the OCHCA indicated that naphthalene and other residual UST-related compounds should be re-evaluated for closure under the LTCP.

The Site consists of approximately seven acres of land covering five parcels identified as Assessor's Parcel Numbers (APNs) 143-294-01, 143-294-02, 143-301-31, 143-301-32, and 143-301-37 in Orange County. The Site was previously developed as an amusement park and has recently been demolished and is currently a vacant, dirt, partially asphalt-paved lot used by an automobile dealership for temporary vehicle storage. A Site Vicinity Map is shown on Figure 1 and a Site Plan is shown on Figure 2.

1.1 Objectives

The primary objectives of the Phase II ESA events were to delineate the lateral and vertical extent of soil and soil vapor contaminants and to gather information for the development of a future human health risk assessment, if deemed necessary.

1.2 Scope of Work

The scope of the Phase II ESA work included the following:

- Conducted a Site reconnaissance to mark the proposed drilling locations, and make appropriate notifications for underground utility clearance;
- Updated the Site-specific Health and Safety Plan (HASP);
- Conducted a geophysical survey to screen for buried utilities/obstructions in the vicinity of proposed soil boring locations;
- Advanced 35 borings in two mobilizations (SB-1 through SB16 and B1 through B19) across the Site to depths of up to 5 feet below ground surface (bgs) for the collection of soil samples and/or installation of SVPs;
- Collected soil samples from three "step-out" borings adjacent to SB2 and analyzed soil samples for OCPs;
- Collected soil samples from three select borings at the Site and analyzed soil samples at a geotechnical laboratory for soil physical properties to support a vapor transport assessment;



- Collected six composite concrete samples for analysis of total petroleum hydrocarbons (TPH), metals, and asbestos;
- Installed 22 temporary SVPs in two mobilizations (at borings SB2, SB3, SB5, SB7, SB11, SB13, and B1 through B16) at depths of approximately 5 feet bgs, collected representative soil vapor samples, and analyzed soil vapor samples for VOCs; and
- Prepared this report.



2.0 BACKGROUND

2.1 Site Description

The Site is currently utilized as a temporary vehicle storage facility for a nearby car dealership and is located in a mixed residential and retail-commercial area of Fountain Valley. The Site formerly operated as an amusement park until approximately 2020. The Site is generally bordered on the west and south by arterial streets followed by residential and commercial development. The Site is bordered along its entire eastern side by the San Diego Freeway (Interstate 405) with residential development located beyond the freeway to the east. A Site Vicinity Map is shown on Figure 1 and a Site Plan is shown on Figure 2.

2.2 Site History

Northgate previously conducted a Phase I ESA (Northgate, 2021b) at the Site. The Phase I ESA indicated that the Site was historically used for agriculture from at least 1938 to the early 1970s. The Site has been bordered along its eastern boundary by the San Diego (Interstate 405) Freeway since the mid-1960s. The Site was fully developed as an amusement park (identified as “Fountain Valley Family Fun Center” and later as “Boomers! Fountain Valley”) containing a pool with bumper boats, a go-kart track, batting cages, kiddie rides and other amusements by 1987 and operated as an amusement park through June of 2020. The Site structures and buildings were present at the completion of the 2021 Phase I ESA and initial Phase II study; however, the facility was not operating and the buildings were unoccupied.

The Phase I ESA identified the following environmental conditions at the Site:

- *Recognized Environmental Condition (REC)*: Soil vapor testing performed at the Site in 2017 by others indicated the presence of chloroform in soil vapor on the southwest portion of the Site at concentrations of 245 to 859 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), which exceeds the United States Environmental Protection Agency (EPA) regional screening level (RSL) for residential land use of $4.1 \mu\text{g}/\text{m}^3$ (Atlas, 2017). The source of the chloroform is likely chlorine chemicals for a bumper-boat pool operated at that location.
- *Controlled REC (CREC)*: The Site received regulatory closure for a remediated release related to a former gasoline UST under the oversight of the OCHCA, which requires that the agency be notified of any future change in land use (OCHCA, 2019).
- *Offsite*: The Phase I identified an offsite former dry-cleaning facility located at 9025 Warner Avenue, which is directly south of the Site across Recreation Circle.



2.3 Regional and Local Geology and Hydrology

The Site is located in the southwestern area of the Coastal Plain of Orange County, which is bordered by Chino Hills to the north, foothills of the Santa Ana Mountains to the northeast, the San Joaquin Hills to the south, the Pacific Ocean to the southwest, and by a low topographic divide approximated by the Orange County - Los Angeles County boundary to the northwest. The Site vicinity is generally underlain by recent age alluvial deposits (ERI, 2003). The Newport-Inglewood fault zone, which is located approximately 1.3 miles southwest of the Site, parallels the coastline and generally forms a barrier to groundwater flow. Based on borings advanced during previous Site investigations, the Site is underlain predominantly by dark brown clay with traces of silt and sand to 16 feet bgs, the maximum investigation depth (Northgate, 2021a).

Regional groundwater flow in the basin is variable toward the south, southwest, and southeast. Information from previous subsurface investigations performed at the Site have encountered groundwater at depths of about 8 to 10 feet bgs with a reported groundwater flow direction to the southeast (Atlas, 2017). During previous investigations, groundwater was encountered at approximately 12 to 14 feet bgs in the southern portion of the Site. In the northern portion of the Site (where ground elevation is lower), groundwater was encountered at approximately 3 to 4 feet bgs (Northgate, 2021a). The Site is bisected by an underground concrete stormwater culvert, which transports water from the adjacent freeway to the Pacific Ocean via the Ocean View Channel and East Garden Grove – Wintersburg Channel.



3.0 INVESTIGATION METHODS

Northgate conducted an initial Phase II Investigation to support Holland's due diligence with respect to the property acquisition that consisted of soil, soil vapor, and groundwater sampling in May 2021 (Northgate, 2021a). A second phase of soil and soil vapor sampling was conducted in March of 2024 (Northgate, 2024a). Sampling locations are shown on Figure 3 and were selected to assess the nature and extent of any contamination and to evaluate potential vapor intrusion concerns below the footprint of the planned apartment structures.

3.1 Pre-Field Activities

Before sampling activities began, Northgate conducted walk-throughs of the Site to mark proposed sampling locations and secure access. Other pre-field activities included the tasks outlined below.

3.1.1 Health and Safety Plan

Northgate updated a Site-specific HASP for the Phase II ESAs. The HASP (Northgate, 2024b) was prepared in accordance with applicable federal and state regulations. The HASP addressed the potential for exposure to hazardous constituents and delineated the general safety procedures that are required for the safe operation of mechanical equipment to be used while conducting the field operations at the Site.

3.1.2 Underground Utility Clearance

Underground Service Alert of Southern California (USA) was notified, as required by law, 48 hours prior to any intrusive activities began in order to locate utilities in the vicinity of the borings. Northgate also contracted with Ground Penetrating Radar Systems, Inc. (GPRS), an independent geophysical utility locating company, to identify underground utilities and other subsurface obstructions which may be in conflict with the proposed boring locations. GPRS did not identify any underground utilities or potential obstructions near the proposed sampling areas.

3.2 Soil Boring Advancement and Soil Sampling

During soil sampling, continuous cores of subsurface materials were collected in clear acetate liners. Upon removing the sampler from the borehole, the acetate liner containing the soil core was opened at various intervals, and soils were visually inspected and screened with a photoionization detector (PID) for the possible presence of contamination. Borings were logged in the field in accordance with the Unified Soil Classification System (USCS). Copies of the boring logs are attached as Appendix A.



Samples collected for volatile analysis were collected using a LockⁿLoadTM sampler and preserved in methanol and sodium bisulfate in volatile organic analysis (VOA) vials in compliance with EPA Method 5035. Soil samples were transported to SunStar Laboratories, Inc. (SunStar), a California certified laboratory in Lake Forest, California under proper chain-of-control custody for analysis. Soil samples were analyzed for VOCs using EPA Method 8260, polychlorinated biphenyls (PCBs) using EPA Method 8082, OCPs using EPA Method 8081, TPH using EPA Method 8015B, and asbestos using EPA Method 600-R-93/116.

A summary of the initial and subsequent soil boring advancement and sampling are presented below.

3.2.1 2021 Soil Boring Advancement and Soil, Groundwater, and Concrete Sampling

3.2.1.1 Concrete Sampling

Six composite concrete samples (C1 through C6) were collected from the concrete onsite. Each composite sample was composed of four individual concrete samples that were collected using a rotary hammer drill equipped with a ¾-inch masonry bit advanced approximately 1 to 2 inches into the concrete. Samples were analyzed for asbestos and metals. Staining was observed on approximately 200 square feet of concrete. A representative stained concrete area was also analyzed for TPH.

3.2.1.2 Soil Boring Advancement and Soil Sampling

From May 11 to 13, 2021, sixteen soil borings (SB1 through SB16) were advanced across the Site in a rough grid pattern as shown on Figure 3, and as described below. The borings were advanced to depths of up to 5 feet bgs with soil samples collected at 1 and 5 feet bgs for logging, screening, and selection of samples for laboratory analysis. The samples collected at 1 and 5 feet bgs from each boring were analyzed for TPH, VOCs, Title 22 metals; and OCPs. Three samples (SB2-1, SB5-1, and SB6-1) with the highest analytical TPH results (as shown in Table 1) were also analyzed for PCBs. All borings were advanced by Strongarm Environmental Field Services of Norwalk, California, using a direct push rig.

After the sampling was completed:

- Groundwater samples were collected from borings SB2, SB3, and SB10 (noted as GW2, GW3 and GW10) as described in Section 3.2.1.3;
- Then borings SB2, SB3, and SB10 were backfilled to the base of the proposed SVPs with hydrated bentonite and SVPs were installed as described in Section 3.3; and
- SVPs were installed in SB2, SB3, SB5, SB7, SB11 and SB13 as described in Section 3.3.



3.2.1.3 Groundwater Sampling

Grab groundwater samples were collected from three hydropunches from SB2, SB3, and SB10 (referred to as GW2, GW3, and GW10) and submitted for TPH, VOC, and metals analysis. SB2 yielded limited water; therefore, only TPH and VOCs were analyzed for sample GW2. One sample (GW2) was collected north of the 1,000-gallon, steel gasoline aboveground storage tank (AST), a second sample (GW3) was collected north of former dry cleaner, and a third sample (GW-10) was collected southeast of the San Diego Freeway (Interstate 405) to determine if possible contamination has migrated to the northeast (Figure 3). The borings were advanced from 12 to 16 feet bgs.

The groundwater samples were analyzed for TPH in accordance with EPA Method 8015, VOCs in accordance with EPA Method 8260, and metals in accordance with EPA Method 8015 and transported to SunStar under proper chain-of-control custody for analysis.

3.2.2 2024 Soil Boring Advancement and Soil Sampling

Additional assessment activities were conducted in 2024 to further assess the lateral and vertical extent of soil and soil vapor contaminants reported in the previous 2021 Phase II investigation and to gather information for the development of a future human health risk assessment, if deemed necessary. A total of 19 soil borings (B1 through B19) were advanced across the Site as shown on Figure 3, and as described below. Borings B1 through B16 were adjusted to be within the proposed residential building footprint.

- Borings B3, B6, and B9 were advanced south of, adjacent to, and north of the 2021 sampling location SV2 where benzene, ethylbenzene, 1,2,4-trimethylbenzene, and m.p.-xylene in soil vapor exceeded screening levels for future residential land use, respectively, and which is located in the vicinity of the former UST;
- Borings B1, B2, and B4 were advanced adjacent to, east of, and north of 2021 sampling location SV3 where chloroform in soil vapor exceeded the EPA RSLs for future residential and commercial land use;
- Borings B5, B7, and B8 were advanced southeast of, west of, and adjacent to 2021 sampling location SV5 where benzene in soil vapor exceeded the EPA RSLs and DTSC-SLs for future residential land use and chloroform in soil vapor exceeded the EPA RSLs for future residential and commercial land use;
- Borings B13, B14, B15, and B16 were advanced south of, adjacent to, east of, and north of 2021 soil vapor sampling location SV7 where PCE in soil vapor exceeded the DTSC-SLs for future residential and commercial land use and chloroform in soil vapor exceeded the EPA RSL for residential site use;



- Borings B10, B11, and B12 were advanced west of, adjacent to, and east of 2021 soil vapor sampling location SV11 where TCE in soil vapor exceeded the EPA RSLs for future residential land use and benzene in soil vapor exceeded the DTSC-SL for future residential land use; and
- Borings B17, B18, and B19 were advanced ten feet southeast of, north of, and southwest of 2021 soil sampling location SB2 where toxaphene exceeded the residential DTSC-SL and EPA RSL.

Borings were advanced by Interphase Environmental Inc. (Interphase), of Pico Rivera, California to a depth of approximately 5 feet bgs. All borings were advanced using a direct push rig with the exception of borings B17 through B19 which were advanced via hand auger techniques.

Three select soil samples were collected from borings B5, B10, and B13 between 3.5 feet bgs and 4.5 feet bgs for soil physical properties to support a vapor transport assessment. The samples were collected in acetate sleeves, labeled, packaged in re-sealable plastic bags, and placed in a blue-ice-chilled cooler as temporary storage. Samples were mailed to Integrate Geosciences Laboratories, LLC (Integrated) a certified laboratory of Houston, Texas under standard chain-of-custody protocol. The samples were analyzed for vapor transport parameters.

3.3 Soil Vapor Surveys

Temporary SVPs were installed using 2-1/4 inch inside-diameter hollow drill rods. The probes consisted of a 3/8" x 1" Stone PolyPro vapor probe implant with 1/4-inch Speed Fit installed at 5 feet bgs. Teflon tubing (1/4-inch diameter) was connected from the implant to the ground surface and terminated above the existing concrete slab. The borehole annulus around the implant and tubing was filled through the drill rods with sand 6 inches above and below the implant, 12 inches of dry bentonite placed 1 foot above the sand, and hydrated bentonite chips from above the sand to the ground surface. Each SVP was completed with 6-inch diameter, flush-mounted, traffic-rated well box (Figure 4).

After installation, each SVP was allowed to stabilize for a minimum of 48 hours after construction in accordance with the DTSC advisory for active soil gas investigations dated August 2015 (DTSC, 2015) in order for all samples to be collected on the same day, since one of the SVPs needed to be installed with a hand auger. Prior to sampling, each probe was purged of approximately three well-volumes of air. A vapor sample was then collected from each probe using an individually certified clean summa canister and flow regulator that maintained a flow rate of 150 milliliters per minute. Samples were transported to SunStar and analyzed for VOCs using EPA Method TO-15.



A summary of soil vapor survey results during the 2021 and 2024 Phase II ESAs is presented below.

3.3.1 Soil Vapor Survey During Initial Phase II ESA (2021)

Temporary SVPs were installed at six locations (Borings SB2, SB3, SB5, SB7, SB11 and SB13) at depths of 5 feet bgs across the Site as shown on Figure 3.

3.3.2 Soil Vapor Survey During Subsequent Phase II ESA (2024)

Temporary SVPs were installed at sixteen locations across the Site (Borings B1 through B16) at a depth of approximately 5 feet bgs (Figure 3).

3.4 Data Evaluation Criteria

Analytical results from soil samples collected during this investigation were compared to EPA RSLs and the DTSC-SLs for commercial/industrial and residential land use (EPA, 2023; DTSC, 2022).

Detected concentrations of VOCs in soil vapor were compared to EPA RSLs and DTSC-SLs for commercial/industrial and residential air after applying the default AF of 0.03 in accordance with DTSC comments and published regulatory guidance documents (DTSC, 2011; 2022; EPA, 2023; DTSC and CWRCB, 2023).

It should be noted that the RSLs and DTSC-SLs are considered agency-recommended, generic, risk-based screening levels. The RSLs and SLs are not regulatory cleanup standards. These generic screening levels are more stringent (i.e., more likely to significantly overstate actual risks) than Site-specific screening levels due to the conservative nature of the assumptions used. These generic screening levels are intended for initial screening purposes to characterize Site conditions and not intended for use as cleanup levels; however, additional evaluation could be warranted to determine whether concentrations exceeding generic screening levels potentially pose significant health risks. When contaminant concentrations are below generic screening levels, no further action or study is typically warranted.



4.0 INVESTIGATION RESULTS

4.1 Initial Phase II ESA (2021)

4.1.1 2021 Subsurface Conditions

Borings SB1 through SB16 were advanced throughout the Site in a general grid pattern (Figure 3). Subsurface soils encountered during drilling generally consisted of fill composed of silty sand, sandy silt, sand/silt mixtures with clay, to approximately 16 feet bgs. Occasional bricks were also identified in SB8 to a depth of approximately 5 feet bgs. Boring logs are attached in Appendix A.

4.1.2 2021 Analytical Results

Analytical soil results from this investigation are presented on Table 1 (TPH), Table 2 (VOCs), Table 3 (Title 22 metals), Table 4 (OCPs), and Table 5 (PCBs). TPH and metals analytical results for concrete are presented on Tables 1 and 3, respectively. Analytical soil vapor results from this investigation are presented on Table 6 (VOCs, hydrogen sulfide, and methane). Analytical groundwater results for this investigation are presented on Tables 7 (TPH and VOCs) and 8 (Metals). Copies of the laboratory analytical reports are presented in Appendix B. Analytical results are discussed in detail in the following sections.

4.1.2.1 2021 Concrete Analytical Results

As shown on Table 1, TPH as gasoline (TPH-g) was not detected in concrete sample C4 above the laboratory reporting limits (RLs). TPH as diesel (TPH-d) was reported above the laboratory RLs in sample C4 but less than the EPA residential and commercial RSLs, the DTSC residential and commercial SLs, and the Regional Water Quality Control Board (RWQCB) Maximum Soil Screening Level (SSL). TPH-mo was detected in sample C4 above the EPA residential RSL but less than the EPA commercial RSLs and the RWQCB Maximum SSL.

As shown on Table 3, all Title 22 metals concrete results were less than the EPA residential and commercial RSLs, and the residential and commercial DTSC-SLs.

4.1.2.2 2021 Soil Analytical Results

As shown on Table 1, TPH-g and TPH-d were not detected in soil samples above the laboratory RLs. TPH-mo was reported above the laboratory RLs in 11 out of 16 samples (7 of the 10 borings); however, concentrations were only detected in the motor oil range at concentrations from 12 to 280 milligrams per kilogram (mg/kg), which are well below the EPA residential and commercial RSLs, the residential and commercial DTSC-SLs, and RWQCB Maximum SSL. The



highest concentration of TPH-mo in soil was in SB-12 (280 mg/kg) at 1 foot bgs in the center of the Site. All other concentrations were just above the laboratory RLs (trace levels).

As shown on Table 2, VOCs were detected in 9 of the 16 samples collected and consisted of benzene, toluene, ethylbenzene and xylenes (BTEX – all fuel-related) and chloromethane. All VOC results were less than the EPA residential and commercial RSLs, and the DTSC residential and commercial SLs for all 32 of the soil samples analyzed for VOCs. The highest BTEX concentrations were detected in SB-13 (northern portion of the Site) at 5 feet bgs.

As shown on Table 3, all 16 of the soil samples analyzed for Title 22 metals were less than the EPA residential and commercial RSLs, and the residential and commercial DTSC-SLs.

As shown on Table 4, the following OCPs: 4,4,- dichlorodiphenyldichloroethylene (4,4-DDE), 4,4-dichlorodiphenyldichloroethane (4,4-DDD), 4,4-dichlorodiphenyltrichloroethane(4,4-DDT) and/or toxaphene were detected in 13 of the 16 soil samples. Higher concentrations were detected in the 1-foot sample. All concentrations were below regulatory screening levels with the exception of toxaphene, where the residential DTSC-SL and EPA RSL was exceeded in two samples (SB-2 and SB-14, both at 1 foot bgs; Figure 5) and one sample (SB2-1) where toxaphene exceeded the commercial DTSC-SL.

As shown on Table 5, PCBs were analyzed in 3 soil samples where TPH detections were the highest. No PCBs were detected.

4.1.2.3 2021 Soil Vapor Analytical Results

Soil vapor samples were collected from SVPs set at approximately 5 feet bgs in SV2, SV3, SV5, SV7, SV11, and SV13. The soil vapor wells were installed at 5 feet bgs as part of the methane survey. Soil vapor samples were collected from 5 feet bgs at these six locations. The leak detection compound isopropyl alcohol (IPA) was detected in five samples; however, detections were well below 10 times the laboratory RL of the target analytes, and were therefore acceptable for use in Site evaluation.

When the default AF of 0.03 was applied, the following compounds exceeded either the DTSC-SLs or EPA RSLs for soil vapor:

- Benzene exceeded the DTSC-SLs and EPA RSLs for future commercial and future residential land use in sample SV2;
- Benzene exceeded the EPA RSLs and DTSC-SLs for future residential land use in sample SV5;



- Benzene exceeded the DTSC-SLs for soil vapor for future residential land use in sample SV11;
- Chloroform exceeded the EPA RSLs for future residential and commercial land use in samples SV2, SV3, and SV5;
- Chloroform exceeded the EPA RSLs for future residential land use in samples SV7, SV11, and SV13;
- Ethylbenzene exceeded the EPA RSLs for future residential and commercial land use in sample SV2;
- PCE exceeded the DTSC-SLs for future residential and commercial land use in sample SV7;
- TCE exceeded the EPA RSLs for future residential land use in sample SV11;
- 1,2,4-trimethylbenzene exceeded the EPA RSLs for future residential land use in sample SV2; and
- m.p.-Xylene exceeded the EPA RSLs for future residential land use in sample SV2.

Methane and hydrogen sulfide were not detected in any of the soil vapor samples.

4.1.2.4 2021 Groundwater Analytical Results

TPH and VOC groundwater results are shown on Table 7. TPH-g was reported above the laboratory RLs in sample GW2. TPH-d was detected in samples GW2, GW3, and GW10 above the laboratory RLs. TPH-mo was not detected above the laboratory RLs. There are no California MCLs for TPH. Benzene, toluene, and o-xylenes were detected, in GW-3; however, at concentrations well below the California MCLs. As shown on Table 8, metals concentrations in groundwater samples were less than the California MCLs.

4.2 Subsequent Phase II ESA (2024)

4.2.1 2024 Subsurface Conditions

Borings SB1 through SB19 were advanced throughout the Site as shown on Figure 3 and described in Section 3.2. Subsurface soils encountered during the advancement of boreholes generally consisted of fill composed of silty sand and sandy silt to approximately 5 feet bgs. No odor, staining, or elevated PID readings were encountered during advancement of the borings. Boring logs are attached in Appendix A.



4.2.2 2024 Analytical Results

Soil analytical results from this investigation and the previous 2021 investigation are presented in Table 4 (OCPs). Soil vapor analytical results from this investigation and the previous 2021 investigation are presented in Table 2 (VOCs). A summary of soil sample physical property analyses is presented in Table 9. Copies of the laboratory analytical reports are presented in Appendix B. Analytical results are discussed in detail in the following sections.

4.2.3 2024 Soil Analytical Results

As shown on Table 4, the following OCPs: 4,4-DDE, 4,4-DDT and/or toxaphene were detected in the 2024 soil samples from borings B17, B18, and B19 at 1 foot bgs. However, all concentrations were below regulatory screening levels with the exception of toxaphene, where the residential DTSC-SL and EPA RSL were exceeded in boring B17 and B19 at 1 foot bgs (Table 4).

4.2.4 2024 Soil Vapor Analytical Results

Soil vapor samples were collected from 15 SVPs set at approximately 5 feet bgs in borings B1 through B14 and B16. A soil vapor sample was not feasible in boring B15 due to water identified in the Teflon tubing. The leak detection compound, IPA, was not detected in any of the samples.

Soil vapor samples analyzed during this investigation reported detectable concentrations of 28 individual VOCs, but only 1,3-butadiene, benzene, bromodichloromethane, chloroform, ethylbenzene, and PCE exceeded one or more soil vapor screening levels for commercial and/or residential land use (see Table 6 and Figures 6 and 7). A summary of the VOC concentrations which exceeded either the DTSC-SLs or EPA RSLs for soil vapor is presented below.

- 1,3-Butadiene exceeded one or more soil vapor screening levels for commercial land use in samples B1, B4, B8 and B9, and exceeded one or more soil vapor screening levels for residential land use in samples B1, B4, B7, B8 and B9.
- Notably, 1,3-butadiene concentrations were not detected during the 2021 investigation and there are no known sources of 1,3-butadiene at the Site. Common sources of 1,3-butadiene are vehicle exhaust, tobacco smoke, the burning of materials (especially wood, rubber, and plastic), and from the manufacturing of rubbers and plastics. 1,3 butadiene which is released to soil or water evaporates quickly and then breaks down at a rapid pace (half-life of approximately 6 hours) in the atmosphere (ATSDR, 2012). Therefore, the detected 1,3-butadiene is considered a transient compound from the drilling process.



- Benzene exceeded one or more soil vapor screening levels for residential land use in all soil vapor samples collected (B1 to B14, and B16) and for commercial land use in samples B4, B6, and B7;
- Bromodichloromethane exceeded one or more soil vapor screening levels for residential land used in sample B7;
- Chloroform exceeded one or more soil vapor screening levels for commercial and residential land use in samples B1, B3, B4, B5, B6, B7, B8, and B9, and for residential land use in B2;
- Ethylbenzene exceeded one or more soil vapor screening levels for residential land use in samples B6, B7, B9, B10, and B13 and for commercial land use in sample B9; and
- PCE exceeded one or more soil vapor screening levels for residential land use in samples B8, B10, and B11.

4.2.5 2024 Soil Physical Property Results

As discussed in Section 3.2.2, three select soil samples were collected from borings B5, B10, and B13 between 3.5 feet bgs and 4.5 feet bgs for soil physical properties to support a vapor transport assessment. The three soil samples were analyzed for a standard suite of physical properties such as density, moisture content, particle size distribution, permeability, and various fluid conductivities. Physical property analytical results are summarized in Table 9. The grain size weight percentages indicate that the soil samples from B5 and B10 represent silty sand and the soil sample from B13 represents a poorly graded sand with silt according to ASTM D2488. The soil texture for the soil samples from B5, B10, and B13 are considered sandy loam, loamy sand, and sand, respectively, according to the United States Department of Agriculture (USDA) classification system.



5.0 CONCLUSIONS

The combined Phase II investigations included the analysis of six concrete samples, 41 soil samples collected from 19 borings for OCP analysis, three soil samples collected from three borings for soil physical parameters as part of a vapor transport analysis, 21 soil vapor samples collected from 21 temporary SVPs, and three groundwater samples from temporary wells to complete the contaminant extent delineation. Below we combine and summarize the results of the two investigations.

5.1 Concrete

No contaminants above residential screening levels were detected in concrete samples except TPH-mo in one sample. TPH-mo was detected above the residential EPA RSLs at sample C4. Based on the sample results, the concrete, if disposed, would be characterized as non-hazardous. In addition, the concrete would be acceptable for crushing and reuse onsite.

5.2 Soil

No contaminants above residential screening levels were detected in the soil samples except toxaphene (which is a pesticide) in 4 samples exceeded the residential EPA RSL and DTSC-SL and one sample (SB2-1) where toxaphene exceeded the commercial DTSC-SL as shown in (Table 4). Toxaphene concentrations above screening levels appear to be limited to shallow soil (not present in soil samples collected at 5 feet bgs) in the immediate vicinity of boring SB2 and one isolated detection just above residential screening levels in SB14 and are likely related to historical agricultural operations at the Site 1938 to the early 1970s.

5.3 Soil Vapor

All VOCs detected in soil vapor were below their respective residential and commercial screening levels (assuming the most conservative default AF of 0.03) with the exception of 1,3-butadiene, benzene, bromodichloromethane, chloroform, ethylbenzene, PCE, TCE, 1,2,4-trimethylbenzene, and m,p-xylenes (Table 6). In general, the fuel related VOCs were located near the former UST and the chloroform and related compounds were in the vicinity of the bumper-boat pool, both in the southern portion of the site. See Figures 6 and 7.

Northgate concludes that 1,3-butadiene is most likely a transient chemical attributed to the drilling process and therefore is not considered a chemical of concern associated with the Site.

Given no known PCE uses at the Site and based on the generally low-level concentrations of PCE reported in soil vapor at various locations across the Site, the source of PCE in soil vapor



does not appear to be from the Site and is likely the result of contaminated vapor/groundwater migration from one or more offsite sources.

5.4 Groundwater

TPH was detected at low concentrations in two of the three groundwater samples collected but at concentrations below MCLs. Chloroform was detected in the most southerly groundwater sample collected at 4.1 micrograms per liter ($\mu\text{g/l}$). There is no MCL for chloroform. Several metals were detected in groundwater, but all below MCLs.

5.5 Closing Remarks

The tables and figures include the results of the 2021 and 2024 Phase II studies at the Site. Taken together, the study results provide a comprehensive baseline of subsurface conditions below the Site to develop a future human health risk assessment, if deemed necessary, and to assist in risk-based decisions in relation to proposed multi-family and commercial development at the Site.



6.0 LIMITATIONS

The purpose of this study is to reasonably characterize existing site conditions given practical access constraints. In performing such a study, it is understood that a balance must be struck between a reasonable inquiry into the site conditions and an exhaustive analysis of each conceivable environmental characteristic. The following paragraphs discuss the assumptions and parameters under which such an opinion is rendered.

No investigation is thorough enough to describe all conditions of interest at a given site. If conditions have not been identified during the study, such a finding should not therefore be construed as a guarantee of the absence of such conditions at the site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed.

We are unable to report on or accurately predict events that may change the site conditions after the described services are performed, whether occurring naturally or caused by external forces. We assume no responsibility for conditions we were not authorized to evaluate, or conditions not generally recognized as predictable when services were performed.

Conditions may exist at the site that cannot be identified solely by visual observation. Where subsurface exploratory work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations.



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TABLES



TABLE 1
Summary of Soil and Concrete Analytical Results
Total Petroleum Hydrocarbons and Asbestos

Sample ID	Sample Type	Soil Boring	Sample Depth (feet bgs)	Date Sampled	Total Petroleum Hydrocarbons			Asbestos (PLM)
					EPA 8015B/5035 (µg/kg)	EPA 8015B (mg/kg)		Total Asbestos
					C6-C12 (TPH-g)	C13-C28 (TPH-d)	C29-C40 (TPH-mo)	%
SB1-1	Soil	SB1	1	5/11/2021	<540	<10	<10	NA
SB1-5	Soil		5	5/11/2021	<79,000	<10	12	NA
SB2-1	Soil	SB2	1	5/11/2021	<580	<10	24	NA
SB2-5	Soil		5	5/11/2021	<680	<10	19	NA
SB3-1	Soil	SB3	1	5/11/2021	<710	<10	14	NA
SB3-5	Soil		5	5/11/2021	<530	<10	12	NA
SB4-3	Soil	SB4	3	5/11/2021	<710	<10	17	NA
SB4-5	Soil		5	5/11/2021	<520	<10	<10	NA
SB5-1	Soil	SB5	1	5/11/2021	<24,000	<10	20	NA
SB5-5	Soil		5	5/11/2021	<490	<10	<10	NA
SB6-1	Soil	SB6	1	5/11/2021	<37,000	<10	21	NA
SB6-5	Soil		5	5/11/2021	<36,000	<10	<10	NA
SB7-1	Soil	SB7	1	5/11/2021	<33,000	<10	19	NA
SB7-5	Soil		5	5/11/2021	<28,000	<10	<10	NA
SB8-1	Soil	SB8	1	5/11/2021	<470	<10	<10	NA
SB8-5	Soil		5	5/11/2021	<590	<10	<10	NA
SB9-1	Soil	SB9	1	5/11/2021	<620	<10	<10	NA
SB9-5	Soil		5	5/11/2021	<620	<10	<10	NA
SB10-1	Soil	SB10	1	5/11/2021	<440	<10	<10	NA
SB10-5	Soil		5	5/11/2021	<560	<10	<10	NA
SB11-1	Soil	SB11	1	5/11/2021	<500	<10	<10	NA
SB11-5	Soil		5	5/11/2021	<650	<10	<10	NA
SB12-1	Soil	SB12	1	5/11/2021	<750	<10	280	NA
SB12-5	Soil		5	5/11/2021	<570	<10	<10	NA
SB13-1	Soil	SB13	1	5/11/2021	<580	<10	<10	NA
SB13-5	Soil		5	5/11/2021	<520	<10	<10	NA
SB14-1	Soil	SB14	1	5/11/2021	<500	<10	<10	NA
SB14-5	Soil		5	5/11/2021	<500	<10	<10	NA
SB15-1	Soil	SB15	1	5/11/2021	<550	<10	<10	NA
SB15-5	Soil		5	5/11/2021	<460	<10	<10	NA
SB16-1	Soil	SB16	1	5/11/2021	<650	<10	<10	NA
SB16-5	Soil		5	5/11/2021	<480	<10	12	NA
C1	Concrete	NA	NA	5/11/2021	--	--	--	ND
C2	Concrete	NA	NA	5/11/2021	--	--	--	ND
C3	Concrete	NA	NA	5/11/2021	--	--	--	ND
C4	Concrete	NA	NA	5/11/2021	<10,000	74	2,700	ND
C5	Concrete	NA	NA	5/11/2021	--	--	--	ND
C6	Concrete	NA	NA	5/11/2021	--	--	--	ND
REGULATORY SCREENING CRITERIA								
EPA Residential Soil RSLs					82,000	96	2,400	NA
DTSC Residential Soil SLs					NE	NE	NE	NA
EPA Commerical Soil RSLs					420,000	560	30,000	NA
DTSC Commerical SLs					NE	NE	NE	NA
RWQCB TPH Max SSL 20 -150 feet Above Groundwater					100,000	1,000	10,000	NA

Notes/Abbreviations:

<	Not detected at or above the indicated laboratory method reporting limit
NA	Not Applicable
ND	Not Detected
Bold	Detected above one or more regulatory screening levels
bgs	Below ground surface
DTSC	Department of Toxic Substances Control
EPA	Environmental Protection Agency
mg/kg	Milligrams per kilogram (units)
RWQCB	Regional Water Quality Control Board
RSL	US EPA Region 9 Regional Screening Levels, updated May 2021
SL	DTSC HHRA Note 3 Recommended Screening Levels for Soil Analytes, June 2020
SSL	RWQCB Maximum Soil Screening Levels - Distance to groundwater less than 20 feet, Interim Site Assessment Cleanup Guidance, May 1996.
TPH	Total petroleum hydrocarbons
TPH-d	Total petroleum hydrocarbons quantified as diesel
TPH-g	Total petroleum hydrocarbons quantified as gasoline
TPH-mo	Total petroleum hydrocarbons quantified as motor oil
µg/kg	Micrograms per kilogram (units)

TABLE 2
Summary of Soil Analytical Results - Volatile Organic Compounds

Sample ID	Soil Boring	Sample Depth (feet bgs)	Date Sampled	Volatile Organic Compounds EPA 8260B (µg/kg)						
				Benzene	Chloromethane	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	All Other VOCs in EPA 8260B Analyte List
SB1-1	SB1	1	5/11/2021	19	<2.9	3.0	<5.7	<2.9	18	ND
SB1-5		5	5/11/2021	<3.3	<3.3	<3.3	<6.7	<3.3	<3.3	ND
SB2-1	SB2	1	5/11/2021	<3.1	<3.1	<3.1	<6.2	<3.1	<3.1	ND
BS2-5		5	5/11/2021	<2.5	<2.5	<2.5	<5.0	<2.5	<2.5	ND
SB3-1	SB3	1	5/11/2021	<3.0	<3.0	<3.0	<6.1	<3.0	<3.0	ND
SB3-5		5	5/11/2021	<2.5	<2.5	2.7	13	3.5	<2.5	ND
SB4-3	SB4	3	5/11/2021	8.5	<3.1	<3.1	<6.3	<3.1	7.2	ND
SB4-5		5	5/11/2021	<3.2	<3.2	<3.2	<6.4	<3.2	<3.2	ND
SB5-1	SB5	1	5/11/2021	2.6	<2.5	<2.5	<5.0	<2.5	2.5	ND
SB5-5		5	5/11/2021	<2.5	<2.5	<2.5	<5.0	<2.5	<2.5	ND
SB6-1	SB6	1	5/11/2021	<3.6	<3.6	<3.6	<7.2	<3.6	<3.6	ND
SB6-5		5	5/11/2021	<2.8	<2.8	<2.8	<5.7	<2.8	<2.8	ND
SB7-1	SB7	1	5/11/2021	<2.9	<2.9	<2.9	<5.8	<2.9	<2.9	ND
SB7-5		5	5/11/2021	<3.0	<3.0	<3.0	<6.0	<3.0	<3.0	ND
SB8-1	SB8	1	5/11/2021	<5.0	<5.0	<2.5	<5.0	<2.5	<2.5	ND
SB8-5		5	5/11/2021	<2.9	<2.9	<2.9	<5.8	<2.9	<2.9	ND
SB9-1	SB9	1	5/11/2021	3.5	<2.5	<2.5	<5.0	<2.5	<2.5	ND
SB9-5		5	5/11/2021	<3.5	<3.5	<3.5	<6.9	<3.5	<3.5	ND
SB10-1	SB10	1	5/11/2021	5.6	<2.2	<2.2	<4.5	<2.2	3.8	ND
SB10-5		5	5/11/2021	<2.5	<2.5	<2.5	<5.0	<2.5	<2.5	ND
SB11-1	SB11	1	5/11/2021	<3.0	<3.0	<3.0	<6.1	<3.0	<3.0	ND
SB11-5		5	5/11/2021	<2.5	<2.5	<2.5	<5.0	<2.5	<2.5	ND
SB12-1	SB12	1	5/11/2021	<3.7	<3.7	<3.7	<7.3	<3.7	<3.7	ND
SB12-5		5	5/11/2021	<3.0	<3.0	<3.0	<5.9	<3.0	<3.0	ND
SB13-1	SB13	1	5/11/2021	<2.9	<2.9	<2.9	<5.7	<2.9	<2.9	ND
SB13-5		5	5/11/2021	110	3.4	10	10	3.3	78	ND
SB14-1	SB14	1	5/11/2021	11	<2.5	<2.5	<5.0	<2.5	8.7	ND
SB14-5		5	5/11/2021	<3.1	<3.1	<3.1	<6.1	<3.1	<3.1	ND
SB15-1	SB15	1	5/11/2021	<3.2	<3.2	<3.2	<6.4	<3.2	<3.2	ND
SB15-5		5	5/11/2021	<2.5	<2.5	<2.5	<5.0	<2.5	<2.5	ND
SB16-1	SB16	1	5/11/2021	<3.2	<3.2	<3.2	<6.4	<3.2	<3.2	ND
SB16-5		5	5/11/2021	7.9	<2.5	<2.5	<5.0	<2.5	4.6	ND
REGULATORY SCREENING CRITERIA										
EPA Residential Soil RSLs				1,200	110,000	5,800	550,000	650,000	4,900,000	NA
DTSC Residential Soil SLs				330	NE	NE	NE	NE	1,100,000	NA
EPA Commercial Soil RSLs				5,100	460,000	25,000	2,400,000	2,800,000	NE	NA
DTSC Commercial Soil SLs				1,400	NE	NE	NE	NE	NE	NA

Notes/Abbreviations:

<	Not detected at or above the indicated laboratory method reporting limit
bgs	Below ground surface
Bold	Detected above one or more regulatory screening levels
DTSC	Department of Toxic Substances Control
EPA	Environmental Protection Agency
ND	Not detected
NA	Not Applicable
RSL	US EPA Region 9 Regional Screening Levels, updated May 2021
SL	DTSC HHRA Note 3 Modified Screening Levels for Soil Analytes, June 2020
VOC	Volatile Organic Compound
µg/kg	Micrograms per kilogram (units)

TABLE 3
Summary of Soil and Concrete Analytical Results - Title 22 Metals

Sample ID	Sample Type	Location	Sample Depth (feet bgs)	Date	Title 22 Metals (mg/kg)																
					EPA 6010b																EPA 7471A
					Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
SB1-1	Soil	SB1	1	5/11/2021	<3.0	<5.0	59	<1.0	<2.0	10	5.9	8.5	<3.0	<5.0	6.7	<5.0	<2.0	<5.0	25	32	<0.10
SB1-5	Soil		5	5/11/2021	<3.0	<5.0	33	<1.0	<2.0	7.8	4.8	5.1	<3.0	<5.0	5.0	<5.0	<2.0	<5.0	23	23	<0.10
SB2-1	Soil	SB2	1	5/11/2021	<3.0	<5.0	65	<1.0	<2.0	15	7.0	20	9.1	<5.0	8.7	<5.0	<2.0	<5.0	30	49	<0.10
SB2-5	Soil		5	5/11/2021	<3.0	<5.0	50	<1.0	<2.0	9.3	5.9	7.0	3.7	<5.0	6.7	<5.0	<2.0	<5.0	23	33	<0.10
SB3-1	Soil	SB3	1	5/11/2021	<3.0	<5.0	58	<1.0	<2.0	12	6.8	12	9.5	<5.0	8.0	<5.0	<2.0	<5.0	28	41	<0.10
SB3-5	Soil		5	5/11/2021	<3.0	<5.0	51	<1.0	<2.0	9.6	6.1	5.9	<3.0	<5.0	6.5	<5.0	<2.0	<5.0	27	33	<0.10
SB4-3	Soil	SB4	3	5/11/2021	<3.0	<5.0	49	<1.0	<2.0	12	3.6	8.5	5.0	<5.0	4.9	<5.0	2.1	<5.0	17	36	<0.10
SB4-5	Soil		5	5/11/2021	<3.0	<5.0	53	<1.0	<2.0	8.9	5.6	7.9	<2.7	<5.0	6.5	<4.5	<1.8	<4.5	23	30	<0.10
SB5-1	Soil	SB5	1	5/11/2021	<3.0	<2.0	54	<1.0	<2.0	9.8	5.9	11	5.7	<5.0	6.8	<5.0	<2.0	<5.0	23	36	<0.10
SB5-5	Soil		5	5/11/2021	<3.0	<5.0	54	<1.0	<2.0	10	6.2	7.9	3.4	<5.0	6.9	<5.0	<2.0	<5.0	25	34	<0.10
SB6-1	Soil	SB6	1	5/11/2021	<3.0	<5.0	60	<1.0	<2.0	14	7.1	15	5.3	<5.0	8.8	<5.0	<2.0	<5.0	29	44	<0.10
SB6-5	Soil		5	5/11/2021	<2.7	<4.5	52	<1.0	<2.0	7.7	5.5	5.2	<2.7	<4.5	5.3	<4.5	<1.8	<4.5	21	27	<0.10
SB7-1	Soil	SB7	1	5/11/2021	<3.0	<5.0	17	<1.0	<2.0	4.2	<2.0	2.2	<3.0	<5.0	2.8	<5.0	<2.0	<5.0	9.1	9.9	<0.10
SB7-5	Soil		5	5/11/2021	<3.0	<5.0	25	<1.0	<2.0	6.0	3.9	3.1	<3.0	<5.0	4.0	<5.0	<2.0	<5.0	18	20	<0.10
SB8-1	Soil	SB8	1	5/11/2021	<3.0	<5.0	60	<1.0	<2.0	12	7.2	9.3	3.5	<5.0	8.3	<5.0	<2.0	<5.0	28	39	<0.10
SB8-5	Soil		5	5/11/2021	<3.0	<5.0	49	<1.0	<2.0	11	6.1	8.2	<3.0	<5.0	7.3	<5.0	<2.0	<5.0	26	31	<0.10
SB9-1	Soil	SB9	1	5/11/2021	<3.0	<5.0	55	<1.0	<2.0	12	6.4	10	18	<5.0	7.6	<5.0	<2.0	<5.0	25	52	<0.10
SB9-5	Soil		5	5/11/2021	<3.0	<5.0	64	<1.0	<2.0	12	6.9	9.6	3.0	<5.0	8.0	<5.0	<2.0	<5.0	27	38	<0.10
SB10-1	Soil	SB10	1	5/11/2021	<3.0	<5.0	56	<1.0	<2.0	13	7.1	8.9	3.3	<5.0	8.7	<5.0	<2.0	<5.0	26	44	<0.10
SB10-5	Soil		5	5/11/2021	<3.0	<5.0	48	<1.0	<2.0	12	7.0	8.0	<3.0	<5.0	8.1	<5.0	<2.0	<5.0	25	36	<0.10
SB11-1	Soil	SB11	1	5/11/2021	<3.0	<5.0	58	<1.0	<2.0	10	6.3	8.9	<3.0	<5.0	7.2	<5.0	<2.0	<5.0	27	31	<0.10
SB11-5	Soil		5	5/11/2021	<3.0	<5.0	47	<1.0	<2.0	12	6.6	7.3	<2.7	<5.0	7.6	<4.5	<1.8	<4.5	26	36	<0.10
SB12-1	Soil	SB12	1	5/11/2021	<2.7	<4.5	42	<0.91	<1.8	7.9	3.8	9.9	7.2	<4.5	5.5	<4.5	<1.8	<4.5	18	34	<0.10
SB12-5	Soil		5	5/11/2021	<3.0	<5.0	48	<1.0	<2.0	10	6.0	6.3	<3.0	<5.0	6.6	<5.0	<2.0	<5.0	24	31	<0.10
SB13-1	Soil	SB13	1	5/11/2021	<3.0	<5.0	60	<1.0	<2.0	14	7.0	8.9	4.3	<5.0	8.0	<5.0	<2.0	<5.0	28	43	<0.10
SB13-5	Soil		5	5/11/2021	<3.0	<5.0	60	<1.0	<2.0	11	6.5	8.7	3.1	<5.0	7.4	<5.0	<2.0	<5.0	26	36	<0.10
SB14-1	Soil	SB14	1	5/11/2021	<3.0	<5.0	63	<1.0	<2.0	13	6.9	16	6.2	<5.0	8.5	<5.0	<2.0	<5.0	28	44	<0.10
SB14-5	Soil		5	5/11/2021	<3.0	<5.0	54	<1.0	<2.0	9.9	5.7	6.7	<3.0	<5.0	6.8	<5.0	<2.0	<5.0	25	29	<0.10
SB15-1	Soil	SB15	1	5/11/2021	<3.0	<5.0	58	<1.0	<2.0	11	6.7	9.7	3.6	<5.0	7.4	<5.0	<2.0	<5.0	28	40	<0.10
SB15-5	Soil		5	5/11/2021	<3.0	<5.0	59	<1.0	<2.0	7.5	4.9	4.5	<3.0	<5.0	5.4	<5.0	<2.0	<5.0	22	23	<0.10
SB16-1	Soil	SB16	1	5/11/2021	<3.0	<5.0	51	<1.0	<2.0	9.7	6.2	6.7	<3.0	<5.0	6.5	<5.0	<2.0	<5.0	26	33	<0.10
SB16-5	Soil		5	5/11/2021	<3.0	<5.0	56	<1.0	<2.0	13	6.9	13	5.7	<5.0	8.6	<5.0	<2.0	<5.0	28	40	<0.10
C1	Concrete	NA	NA	5/11/2021	<3.0	<5.0	58	<1.0	<2.0	7.1	5.7	14	3.7	<5.0	7.0	<5.0	2.5	<5.0	11	21	<0.10
C2	Concrete	NA	NA	5/11/2021	<3.0	<5.0	55	<1.0	<2.0	8.3	4.4	13	3.4	<5.0	7.6	<5.0	2.9	<5.0	13	26	<0.10
C3	Concrete	NA	NA	5/11/2021	<3.0	<5.0	96	<1.0	<2.0	6.3	3.7	5.4	<3.0	<5.0	4.4	<5.0	2.8	<5.0	12	18	<0.10
C4	Concrete	NA	NA	5/11/2021	<3.0	<5.0	56	<1.0	<2.0	13	3.6	7.4	<3.0	<5.0	8.7	<5.0	4.0	<5.0	20	53	<0.10
C5	Concrete	NA	NA	5/11/2021	<3.0	<5.0	71	<1.0	<2.0	16	4.6	7.5	5.1	<5.0	6.5	<5.0	2.3	<5.0	19	30	<0.10
C6	Concrete	NA	NA	5/11/2021	<3.0	<5.0	120	<1.0	<2.0	14	5.3	11	<3.0	<5.0	6.8	<5.0	<2.0	<5.0	21	26	<0.10
REGULATORY SCREENING CRITERIA																					
EPA Residential Soil RSLs					31	0.68	15,000	160	71	120,000*	23	3,100	200	390	1,400	390	390	0.78	390	23,000	11
DTSC Residential Soil SLs					NE	0.11	NE	16	7.1	NE	NE	NE	80	NE	820	NE	NE	NE	NE	NE	1
EPA Commercial Soil RSLs					470	3.0	220,000	2,300	100	1,800,000*	350	47,000	800	5,800	17,000	5,800	5,800	12	5,800	350,000	46
DTSC Commercial Soil SLs					NE	0.36	NE	230	79	NE	NE	NE	500	NE	11,000	NE	NE	NE	NE	NE	4.4
Arsenic background concentration					NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes/Abbreviations:
* EPA RSL for Chromium III, Insoluble Salts
< Not detected at or above the indicated laboratory method reporting limit
Bold Detected above one or more regulatory screening levels
bgs Below ground surface
DTSC Department of Toxic Substances Control
EPA Environmental Protection Agency
mg/kg Milligrams per kilogram (units)
NE Screening Level Not Established
NA Not applicable
RSL US EPA Region 9 Regional Screening Levels, updated May 2024
RWQCB Regional Water Quality Control Board
SL DTSC HHRA Note 3 Modified Screening Levels for Soil Analytes, May 2022
SSL RWQCB Maximum Soil Screening Levels - Distance to groundwater less than 20 feet, Interim Site Assessment Cleanup Guidance, May 1996.

TABLE 3
Summary of Soil and Concrete Analytical Results - Title 22 Metals

Sample ID	Sample Type	Location	Sample Depth (feet bgs)	Date	Title 22 Metals (mg/kg)																
					EPA 6010b																EPA 7471A
					Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
SB1-1	Soil	SB1	1	5/11/2021	<3.0	<5.0	59	<1.0	<2.0	10	5.9	8.5	<3.0	<5.0	6.7	<5.0	<2.0	<5.0	25	32	<0.10
SB1-5	Soil		5	5/11/2021	<3.0	<5.0	33	<1.0	<2.0	7.8	4.8	5.1	<3.0	<5.0	5.0	<5.0	<2.0	<5.0	23	23	<0.10
SB2-1	Soil	SB2	1	5/11/2021	<3.0	<5.0	65	<1.0	<2.0	15	7.0	20	9.1	<5.0	8.7	<5.0	<2.0	<5.0	30	49	<0.10
SB2-5	Soil		5	5/11/2021	<3.0	<5.0	50	<1.0	<2.0	9.3	5.9	7.0	3.7	<5.0	6.7	<5.0	<2.0	<5.0	23	33	<0.10
SB3-1	Soil	SB3	1	5/11/2021	<3.0	<5.0	58	<1.0	<2.0	12	6.8	12	9.5	<5.0	8.0	<5.0	<2.0	<5.0	28	41	<0.10
SB3-5	Soil		5	5/11/2021	<3.0	<5.0	51	<1.0	<2.0	9.6	6.1	5.9	<3.0	<5.0	6.5	<5.0	<2.0	<5.0	27	33	<0.10
SB4-3	Soil	SB4	3	5/11/2021	<3.0	<5.0	49	<1.0	<2.0	12	3.6	8.5	5.0	<5.0	4.9	<5.0	2.1	<5.0	17	36	<0.10
SB4-5	Soil		5	5/11/2021	<3.0	<5.0	53	<1.0	<2.0	8.9	5.6	7.9	<2.7	<5.0	6.5	<4.5	<1.8	<4.5	23	30	<0.10
SB5-1	Soil	SB5	1	5/11/2021	<3.0	<2.0	54	<1.0	<2.0	9.8	5.9	11	5.7	<5.0	6.8	<5.0	<2.0	<5.0	23	36	<0.10
SB5-5	Soil		5	5/11/2021	<3.0	<5.0	54	<1.0	<2.0	10	6.2	7.9	3.4	<5.0	6.9	<5.0	<2.0	<5.0	25	34	<0.10
SB6-1	Soil	SB6	1	5/11/2021	<3.0	<5.0	60	<1.0	<2.0	14	7.1	15	5.3	<5.0	8.8	<5.0	<2.0	<5.0	29	44	<0.10
SB6-5	Soil		5	5/11/2021	<2.7	<4.5	52	<1.0	<2.0	7.7	5.5	5.2	<2.7	<4.5	5.3	<4.5	<1.8	<4.5	21	27	<0.10
SB7-1	Soil	SB7	1	5/11/2021	<3.0	<5.0	17	<1.0	<2.0	4.2	<2.0	2.2	<3.0	<5.0	2.8	<5.0	<2.0	<5.0	9.1	9.9	<0.10
SB7-5	Soil		5	5/11/2021	<3.0	<5.0	25	<1.0	<2.0	6.0	3.9	3.1	<3.0	<5.0	4.0	<5.0	<2.0	<5.0	18	20	<0.10
SB8-1	Soil	SB8	1	5/11/2021	<3.0	<5.0	60	<1.0	<2.0	12	7.2	9.3	3.5	<5.0	8.3	<5.0	<2.0	<5.0	28	39	<0.10
SB8-5	Soil		5	5/11/2021	<3.0	<5.0	49	<1.0	<2.0	11	6.1	8.2	<3.0	<5.0	7.3	<5.0	<2.0	<5.0	26	31	<0.10
SB9-1	Soil	SB9	1	5/11/2021	<3.0	<5.0	55	<1.0	<2.0	12	6.4	10	18	<5.0	7.6	<5.0	<2.0	<5.0	25	52	<0.10
SB9-5	Soil		5	5/11/2021	<3.0	<5.0	64	<1.0	<2.0	12	6.9	9.6	3.0	<5.0	8.0	<5.0	<2.0	<5.0	27	38	<0.10
SB10-1	Soil	SB10	1	5/11/2021	<3.0	<5.0	56	<1.0	<2.0	13	7.1	8.9	3.3	<5.0	8.7	<5.0	<2.0	<5.0	26	44	<0.10
SB10-5	Soil		5	5/11/2021	<3.0	<5.0	48	<1.0	<2.0	12	7.0	8.0	<3.0	<5.0	8.1	<5.0	<2.0	<5.0	25	36	<0.10
SB11-1	Soil	SB11	1	5/11/2021	<3.0	<5.0	58	<1.0	<2.0	10	6.3	8.9	<3.0	<5.0	7.2	<5.0	<2.0	<5.0	27	31	<0.10
SB11-5	Soil		5	5/11/2021	<3.0	<5.0	47	<1.0	<2.0	12	6.6	7.3	<2.7	<5.0	7.6	<4.5	<1.8	<4.5	26	36	<0.10
SB12-1	Soil	SB12	1	5/11/2021	<2.7	<4.5	42	<0.91	<1.8	7.9	3.8	9.9	7.2	<4.5	5.5	<4.5	<1.8	<4.5	18	34	<0.10
SB12-5	Soil		5	5/11/2021	<3.0	<5.0	48	<1.0	<2.0	10	6.0	6.3	<3.0	<5.0	6.6	<5.0	<2.0	<5.0	24	31	<0.10
SB13-1	Soil	SB13	1	5/11/2021	<3.0	<5.0	60	<1.0	<2.0	14	7.0	8.9	4.3	<5.0	8.0	<5.0	<2.0	<5.0	28	43	<0.10
SB13-5	Soil		5	5/11/2021	<3.0	<5.0	60	<1.0	<2.0	11	6.5	8.7	3.1	<5.0	7.4	<5.0	<2.0	<5.0	26	36	<0.10
SB14-1	Soil	SB14	1	5/11/2021	<3.0	<5.0	63	<1.0	<2.0	13	6.9	16	6.2	<5.0	8.5	<5.0	<2.0	<5.0	28	44	<0.10
SB14-5	Soil		5	5/11/2021	<3.0	<5.0	54	<1.0	<2.0	9.9	5.7	6.7	<3.0	<5.0	6.8	<5.0	<2.0	<5.0	25	29	<0.10
SB15-1	Soil	SB15	1	5/11/2021	<3.0	<5.0	58	<1.0	<2.0	11	6.7	9.7	3.6	<5.0	7.4	<5.0	<2.0	<5.0	28	40	<0.10
SB15-5	Soil		5	5/11/2021	<3.0	<5.0	59	<1.0	<2.0	7.5	4.9	4.5	<3.0	<5.0	5.4	<5.0	<2.0	<5.0	22	23	<0.10
SB16-1	Soil	SB16	1	5/11/2021	<3.0	<5.0	51	<1.0	<2.0	9.7	6.2	6.7	<3.0	<5.0	6.5	<5.0	<2.0	<5.0	26	33	<0.10
SB16-5	Soil		5	5/11/2021	<3.0	<5.0	56	<1.0	<2.0	13	6.9	13	5.7	<5.0	8.6	<5.0	<2.0	<5.0	28	40	<0.10
C1	Concrete	NA	NA	5/11/2021	<3.0	<5.0	58	<1.0	<2.0	7.1	5.7	14	3.7	<5.0	7.0	<5.0	2.5	<5.0	11	21	<0.10
C2	Concrete	NA	NA	5/11/2021	<3.0	<5.0	55	<1.0	<2.0	8.3	4.4	13	3.4	<5.0	7.6	<5.0	2.9	<5.0	13	26	<0.10
C3	Concrete	NA	NA	5/11/2021	<3.0	<5.0	96	<1.0	<2.0	6.3	3.7	5.4	<3.0	<5.0	4.4	<5.0	2.8	<5.0	12	18	<0.10
C4	Concrete	NA	NA	5/11/2021	<3.0	<5.0	56	<1.0	<2.0	13	3.6	7.4	<3.0	<5.0	8.7	<5.0	4.0	<5.0	20	53	<0.10
C5	Concrete	NA	NA	5/11/2021	<3.0	<5.0	71	<1.0	<2.0	16	4.6	7.5	5.1	<5.0	6.5	<5.0	2.3	<5.0	19	30	<0.10
C6	Concrete	NA	NA	5/11/2021	<3.0	<5.0	120	<1.0	<2.0	14	5.3	11	<3.0	<5.0	6.8	<5.0	<2.0	<5.0	21	26	<0.10
REGULATORY SCREENING CRITERIA																					
EPA Residential Soil RSLs					31	0.68	15,000	160	71	120,000*	23	3,100	200	390	1,400	390	390	0.78	390	23,000	11
DTSC Residential Soil SLs					NE	0.11	NE	16	7.1	NE	NE	NE	80	NE	820	NE	NE	NE	NE	NE	1
EPA Commercial Soil RSLs					470	3.0	220,000	2,300	100	1,800,000*	350	47,000	800	5,800	17,000	5,800	5,800	12	5,800	350,000	46
DTSC Commercial Soil SLs					NE	0.36	NE	230	79	NE	NE	NE	500	NE	11,000	NE	NE	NE	NE	NE	4.4
Arsenic background concentration					NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes/Abbreviations:
* EPA RSL for Chromium III, Insoluble Salts
< Not detected at or above the indicated laboratory method reporting limit
Bold Detected above one or more regulatory screening levels
bgs Below ground surface
DTSC Department of Toxic Substances Control
EPA Environmental Protection Agency
mg/kg Milligrams per kilogram (units)
NE Screening Level Not Established
NA Not applicable
RSL US EPA Region 9 Regional Screening Levels, updated May 2024
RWQCB Regional Water Quality Control Board
SL DTSC HHRA Note 3 Modified Screening Levels for Soil Analytes, May 2022
SSL RWQCB Maximum Soil Screening Levels - Distance to groundwater less than 20 feet, Interim Site Assessment Cleanup Guidance, May 1996.

TABLE 4
Summary of Soil Analytical Results - Organochlorine Pesticides

Sample ID	Soil Boring	Sample Depth (feet bgs)	Date Sampled	Organochlorine Pesticides EPA 8081A (µg/kg)				
				4,4'-DDE	4,4'-DDD	4,4'-DDT	Toxaphene	All Other OCPs
SB1-1	SB1	1	5/11/2021	<5.0	<5.0	<5.0	<20	ND
SB1-5		5	5/11/2021	<5.0	<5.0	<5.0	<20	ND
SB2-1	SB2	1	5/11/2021	530	<5.0	43	1,300	ND
SB2-5		5	5/11/2021	<5.0	<5.0	<5.0	<20	ND
SB3-1	SB3	1	5/11/2021	110	<5.0	8.4	220	ND
SB3-5		5	5/11/2021	<5.0	<5.0	<5.0	<20	ND
SB4-3	SB4	3	5/11/2021	<50	<50	<50	<200	ND
SB4-5		5	5/11/2021	<5.0	<5.0	<5.0	<20	ND
SB5-1	SB5	1	5/11/2021	50	<5.0	<5.0	<20	ND
SB5-5		5	5/11/2021	72	<5.0	<5.0	<20	ND
SB6-1	SB6	1	5/11/2021	130	<5.0	<5.0	450	ND
SB6-5		5	5/11/2021	<50	<50	<50	<200	ND
SB7-1	SB7	1	5/11/2021	8.4	<5.0	<5.0	<20	ND
SB7-5		5	5/11/2021	<5.0	<5.0	<5.0	<20	ND
SB8-1	SB8	1	5/11/2021	<50	<50	<50	<200	ND
SB8-5		5	5/11/2021	<5.0	<5.0	<5.0	<20	ND
SB9-1	SB9	1	5/11/2021	8.8	<5.0	<5.0	<20	ND
SB9-5		5	5/11/2021	<5.0	<5.0	<5.0	<20	ND
SB10-1	SB10	1	5/11/2021	<5.0	<5.0	<5.0	<20	ND
SB10-5		5	5/11/2021	<5.0	<5.0	<5.0	<20	ND
SB11-1	SB11	1	5/11/2021	<5.0	<5.0	<5.0	<20	ND
SB11-5		5	5/11/2021	<5.0	<5.0	<5.0	<20	ND
SB12-1	SB12	1	5/11/2021	160	<50	<50	<200	ND
SB12-5		5	5/11/2021	<5.0	<5.0	<5.0	<20	ND
SB13-1	SB13	1	5/11/2021	47	<5.0	6.0	<20	ND
SB13-5		5	5/11/2021	21	<5.0	<5.0	<20	ND
SB14-1	SB14	1	5/11/2021	87	<5.0	13	690	ND
SB14-5		5	5/11/2021	<5.0	<5.0	<5.0	<20	ND
SB15-1	SB15	1	5/11/2021	11	<5.0	<5.0	<20	ND
SB15-5		5	5/11/2021	<5.0	<5.0	<5.0	<20	ND
SB16-1	SB16	1	5/11/2021	<5.0	<5.0	<5.0	<20	ND
SB16-5		5	5/11/2021	99	62	<5.0	<20	ND
B17-1	B17	1	3/25/2024	530	<5.0	21	930	ND
B18-1	B18	1	3/25/2024	130	<5.0	8.8	360	ND
B19-1	B19	1	3/25/2024	430	<5.0	19	800	ND
REGULATORY SCREENING CRITERIA								
EPA RSLs for Residential Soil				2,000	1,900	1,900	490	--
DTSC-SLs for Residential Soil				2,000	2,300	1,900	490	--
EPA RSLs for Commercial Soil				9,300	9,600	8,500	2,100	--
DTSC-SLs for Commercial Soil				9,300	6,200	7,100	1,200	--

Notes/Abbreviations:

	Current sampling event
	Concentration exceeds a residential screening level
	Concentration exceeds residential and commercial screening levels
<	Not detected at or above the indicated laboratory method reporting limit
bgs	Below ground surface
Bold	Reported chemical concentration
DTSC	Department of Toxic Substances Control
EPA	Environmental Protection Agency
--	Not applicable or no published value
ND	Not Detected
OCP	Organochlorine Pesticide
RSL	US EPA Regional Screening Levels, updated May 2024
DTSC-SL	DTSC-Modified Screening Levels, May 2022
µg/kg	Micrograms per kilogram (units)

TABLE 5
Summary of Soil Analytical Results - Polychlorinated Biphenyls

Sample ID	Soil Boring	Sample Depth (feet bgs)	Date Sampled	Polychlorinated Biphenyls							
				EPA 8082 (µg/kg)							
				PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	All Other PCBs
SB5-1	SB5	1	5/11/2021	<100	<100	<100	<100	<100	<100	<100	ND
SB6-1	SB6	1	5/11/2021	<10	<10	<10	<10	<10	<10	<10	ND
SB2-1	SB2	1	5/11/2021	<10	<10	<10	<10	<10	<10	<10	ND
REGULATORY SCREENING CRITERIA											
EPA Residential Soil RSLs				4,100	200	170	230	230	240	240	NA
DTSC Residential Soil SLs				6,600	200	170	230	230	240	240	NA
EPA Commercial Soil RSLs				27,000	830	720	950	940	970	990	NA
DTSC Commercial Soil SLs				17,000	530	490	580	580	590	600	NA

Notes/Abbreviations:

<	Not detected at or above the indicated laboratory method reporting limit
Bold	Detected above one or more regulatory screening levels
bgs	Below ground surface
DTSC	Department of Toxic Substances Control
EPA	Environmental Protection Agency
NA	Not Applicable
ND	Not detected at or above the indicated laboratory method reporting limit
PCB	Polychlorinated Biphenyls
RSL	US EPA Region 9 Regional Screening Levels, updated May 2024
SL	DTSC HHRA Note 3 Recommended Screening Levels for Soil Analytes, May 2022
µg/kg	Micrograms per kilogram (units)

TABLE 6
Summary of Soil Vapor Analytical Results - Volatile Organic Compounds

Location or Boring ID	Sample Depth in feet bgs	Sample Date	Methane	Hydrogen Sulfide	Volatile Organic Compounds																								
			SUN-GC-008 ppm(v) Air	TO-14m ppm(v) Air	TO-15 (µg/m³ Air)																								
			Methane	Hydrogen sulfide	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Butadiene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	2-Butanone (MEK)	4-Ethyltoluene	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon tetrachloride
SV2	5	5/13/2021	<8.2	<1.65	<5.6	<7.0	<7.7	<5.6	<4.1	<4.0	2500	<7.8	<31	<4.1	<4.7	760	<4.5	<31	<31	<18	25	590	<12	1300	<6.8	<11	<20	<3.2	<6.4
SV3	5	5/13/2021	<8.4	<1.67	<5.6	<7.0	<7.7	<5.6	<4.1	<4.0	<5.0	<7.8	<31	<4.1	<4.7	<5.0	<4.5	<31	<31	<18	<15	<5.0	11 J	<3.3	<6.8	<11	<20	3.3	<6.4
SV5	5	5/13/2021	<7.3	<1.46	<5.6	<7.0	<7.7	<5.6	<4.1	<4.0	30	<7.8	<31	<4.1	<4.7	8.8	<4.5	<31	<31	<18	7.3 J	9.3	16	13	<6.8	<11	<20	5.4	<6.4
SV7	5	5/13/2021	<8.0	<1.60	<5.6	<7.0	<7.7	<5.6	<4.1	<4.0	9.4	<7.8	<31	<4.1	<4.7	<5.0	<4.5	<31	<31	<18	10 J	<5.0	18	<3.3	<6.8	<11	<20	3.0 J	<6.4
SV11	5	5/13/2021	<9.1	<1.82	<5.6	<7.0	23	<5.6	<4.1	<4.0	12	<7.8	<31	<4.1	<4.7	<5.0	<4.5	<31	<31	<18	7.4 J	<5.0	23	4.4	<6.8	<11	<20	7.2	<6.4
SV13	5	5/13/2021	<8.1	<1.62	<5.6	<7.0	<7.7	<5.6	<4.1	<4.0	<5.0	<7.8	<31	<4.1	<4.7	<5.0	<4.5	<31	<31	<18	5.9 J	<5.0	19	<3.3	<6.8	<11	<20	<3.2	<6.4
B1	5	3/25/2024	--	--	1.9 J	<7.0	<7.7	<5.6	<4.1	<4.0	10	<7.8	<31	<4.1	<4.7	3.5 J	32	<31	<31	<18	20	<5.0	77	12	<6.8	<11	<20	<3.2	<6.4
B2	5	3/25/2024	--	--	<5.6	<7.0	<7.7	<5.6	<4.1	<4.0	1.8 J	<7.8	<31	<4.1	<4.7	0.50 J	<4.5	<31	<31	<18	15	<5.0	64	3.5	<6.8	<11	<20	<3.2	<6.4
B3	5	3/25/2024	--	--	<5.6	<7.0	<7.7	<5.6	<4.1	<4.0	12	<7.8	<31	<4.1	<4.7	3.8 J	<4.5	<31	<31	<18	<15	3.4 J	7.0 J	9.1	<6.8	<11	<20	<3.2	<6.4
B4	5	3/25/2024	--	--	19	<7.0	<7.7	<5.6	<4.1	<4.0	25	<7.8	<31	<4.1	<4.7	7.3	29	<31	<31	<18	21	6.6	78	16	<6.8	<11	<20	<3.2	<6.4
B5	5	3/25/2024	--	--	<5.6	<7.0	<7.7	<5.6	<4.1	<4.0	4.8 J	<7.8	<31	<4.1	<4.7	1.4 J	<4.5	<31	<31	<18	24	<5.0	100	4.4	<6.8	<11	<20	5.6	<6.4
B6	5	3/25/2024	--	--	<5.6	<7.0	<7.7	<5.6	<4.1	<4.0	180	<7.8	<31	<4.1	<4.7	65	<4.5	<31	1.0 J	<18	6.8 J	<5.0	11 J	24	<6.8	<11	<20	<3.2	<6.4
B7	5	3/25/2024	--	--	<5.6	<7.0	<7.7	<5.6	<4.1	<4.0	79	<7.8	<31	<4.1	<4.7	26	1.4 J	<31	<31	<18	13 J	<5.0	56	29	5.4 J	<11	<20	<3.2	<6.4
B8	5	3/25/2024	--	--	<5.6	<7.0	<7.7	<5.6	<4.1	<4.0	3.0 J	<7.8	<31	<4.1	<4.7	0.67 J	6.5	<31	<31	<18	10 J	1.3 J	52	4.2	<6.8	<11	<20	5.4	<6.4
B9	5	3/25/2024	--	--	<5.6	<7.0	<7.7	<5.6	<4.1	<4.0	13	<7.8	<31	<4.1	<4.7	4.3 J	9.1	<31	<31	<18	15	<5.0	36	6.2	<6.8	<11	<20	<3.2	<6.4
B10	5	3/25/2024	--	--	<5.6	<7.0	<7.7	<5.6	<4.1	<4.0	28	<7.8	<31	<4.1	<4.7	8.6	<4.5	<31	<31	<18	13 J	<5.0	67	3.7	<6.8	<11	<20	<3.2	<6.4
B11	5	3/25/2024	--	--	<5.6	<7.0	<7.7	<5.6	<4.1	<4.0	26	<7.8	<31	<4.1	<4.7	8.3	<4.5	<31	<31	<18	13 J	<5.0	67	3.7	<6.8	<11	<20	<3.2	<6.4
B12	5	3/25/2024	--	--	<5.6	<7.0	<7.7	<5.6	<4.1	<4.0	8.2	<7.8	2.8 J	<4.1	<4.7	3.4 J	<4.5	2.2 J	2.5 J	<18	9.8 J	<5.0	18	6.3	<6.8	<11	<20	4.5	<6.4
B13	5	3/25/2024	--	--	<5.6	<7.0	<7.7	<5.6	<4.1	<4.0	19	<7.8	<31	<4.1	<4.7	5.8	<4.5	<31	<31	<18	13 J	<5.0	35	13	<6.8	<11	<20	<3.2	<6.4
B14	5	3/25/2024	--	--	<5.6	<7.0	<7.7	<5.6	<4.1	<4.0	7.2	<7.8	<31	<4.1	<4.7	2.1 J	0.44 J	<31	<31	<18	7.8 J	<5.0	16	6.4	<6.8	<11	<20	<3.2	<6.4
B15	5	3/25/2024	A soil vapor sample was not collected from B15 on this date due to the presence of water in the soil vapor probe's Teflon tubing.																										
B16	5	3/25/2024	--	--	<5.6	<7.0	<7.7	<5.6	<4.1	<4.0	7.0	<7.8	<31	<4.1	<4.7	2.3 J	<4.5	<31	<31	<18	6.5 J	<5.0	13	6.0	<6.8	<11	<20	<3.2	<6.4
REGULATORY SCREENING CRITERIA																													
City of Long Beach Methane Action Level			1,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commercial/Industrial Screening Levels																													
DTSC-SL - Commercial Soil Vapor (AF of 0.03)*			--	--	146,667	7.0	--	--	257	10,333	--	0.67	--	--	--	--	2.4	--	--	--	--	--	--	14	11	367	--	--	67
EPA RSL - Commercial Soil Vapor (AF of 0.03)			--	--	733,333	7.0	733,333	26	257	29,333	8,667	0.67	29,333	16	110	8,667	14	--	37	83	733,333	--	--	53	11	367	733	103,333	67
Residential Screening Levels																													
DTSC-SL - Residential Soil Vapor (AF of 0.03)*			--	--	33,333	1.6	--	--	60	2,433	--	0.16	--	--	--	--	0.57	--	--	--	--	--	--	3.2	2.5	87	--	--	16
EPA RSL - Residential Soil Vapor (AF of 0.03)			--	--	173,333	1.6	173,333	6.0	60	7,000	2,100	0.16	7,000	3.7	25	2,100	3.1	--	8.7	19	173,333	--	--	12	2.5	87	173.33	24,333	16

- Notes/Abbreviations:**
- Current sampling event
 - Concentrations exceed residential screening levels for default AF of 0.03
 - Concentrations exceed residential and commercial screening levels for default AF of 0.03
 - < Not detected at or above the indicated laboratory reporting limit, reporting limits vary for each compound
 - Not applicable or no published value
 - µg/m³ Micrograms per cubic meter (units)
 - AF Attenuation factor
 - bgs Below ground surface
 - Bold** Reported chemical concentration
 - DTSC Department of Toxic Substances Control
 - EPA Environmental Protection Agency
 - GC Gas chromatography
 - ND Not detected
 - ppm(v) parts per million by volume
 - RSL US EPA Regional Screening Levels, updated November 2023
 - DTSC-SL DTSC-Modified Screening Levels, May 2022
 - * Non-cancer endpoint value used as cancer endpoint value when cancer endpoint is not established
 - 1 Value provided is for ambient or indoor air, not soil vapor
 - J Estimated value

TABLE 6
Summary of Soil Vapor Analytical Results - Volatile Organic Compounds

Location or Boring ID	Sample Depth in feet bgs	Sample Date	Volatile Organic Compounds																										
			TO-15 (µg/m³ Air)																										
			Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Heptane	Hexane	Isopropyl alcohol (leak check compound)	m,p-Xylene	Methyl isobutyl ketone	Methylene chloride	o-Xylene	Styrene	Tetrachloroethene (PCE)	Tetrahydrofuran	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride
SV2	5	5/13/2021	<4.7	<2.7	330	<11	<4.0	<4.6	980	<8.7	<5.0	1700	780	1100	27	5400	<42	<27	2100	<4.3	<6.9	<3.0	5200	<4.0	<4.6	<5.5	<5.7	<3.6	<2.6
SV3	5	5/13/2021	<4.7	<2.7	760	<11	<4.0	<4.6	17	<8.7	<5.0	10	<4.2	<3.6	210	62	<42	<27	19	<4.3	<6.9	8.5	<3.8	<4.0	<4.6	<5.5	<5.7	<3.6	<2.6
SV5	5	5/13/2021	29	<2.7	840	<11	<4.0	<4.6	18	<8.7	<5.0	23	13	18	13	83	<42	<27	28	<4.3	5.7 J	19	54	<4.0	<4.6	13	93	<3.6	<2.6
SV7	5	5/13/2021	<4.7	<2.7	5.1	<11	<4.0	<4.6	7.4	<8.7	<5.0	<4.4	<4.2	<3.6	85	4.5 J	<42	<27	<4.4	<4.3	87	8.7	<3.8	<4.0	<4.6	<5.5	<5.7	<3.6	<2.6
SV11	5	5/13/2021	<4.7	<2.7	6.8	<11	<4.0	<4.6	26	<8.7	<5.0	6.5	<4.2	5.1	<13	31	<42	<27	12	<4.3	<6.9	12	18	<4.0	<4.6	41	230	<3.6	<2.6
SV13	5	5/13/2021	<4.7	<2.7	15	<11	<4.0	<4.6	<3.5	<8.7	<5.0	<4.4	<4.2	<3.6	8.1 J	5.4 J	<42	<27	3.7 J	<4.3	<6.9	<3.0	3.5 J	<4.0	<4.6	8.2	<5.7	<3.6	<2.6
B1	5	3/25/2024	<4.7	<2.7	58	<11	<4.0	<4.6	<3.5	<8.7	4.9 J	5.6	6.6	11	<13	21	2.9 J	13 J	6.6	2.1 J	6.6 J	<3.0	30	<4.0	<4.6	2.7 J	22	<3.6	<2.6
B2	5	3/25/2024	<4.7	<2.7	5.9	<11	<4.0	<4.6	<3.5	<8.7	<5.0	3.2 J	<4.2	<3.6	<13	8.1 J	<42	18 J	2.5 J	<4.3	15	<3.0	4.4	<4.0	<4.6	1.6 J	4.1 J	<3.6	<2.6
B3	5	3/25/2024	<4.7	<2.7	88	<11	<4.0	<4.6	<3.5	<8.7	<5.0	7.8	11	6.7	<13	31	<42	21 J	8.5	1.4 J	5.0 J	<3.0	44	<4.0	<4.6	0.36 J	1.6 J	<3.6	<2.6
B4	5	3/25/2024	<4.7	<2.7	110	<11	<4.0	<4.6	<3.5	<8.7	12	34	<4.2	<3.6	<13	140	3.4 J	12 J	49	4.3	6.7 J	<3.0	13	<4.0	<4.6	6.3	80	<3.6	<2.6
B5	5	3/25/2024	<4.7	<2.7	240	<11	<4.0	<4.6	<3.5	<8.7	3.8 J	24	2.0 J	<3.6	<13	90	3.7 J	12 J	26	0.83 J	6.7 J	<3.0	14	<4.0	<4.6	2.5 J	27	<3.6	<2.6
B6	5	3/25/2024	<4.7	<2.7	140	<11	<4.0	<4.6	<3.5	<8.7	<5.0	87	44	<3.6	<13	380	<42	15 J	96	10	10	<3.0	630	<4.0	<4.6	0.27 J	1.3 J	<3.6	<2.6
B7	5	3/25/2024	<4.7	<2.7	440	<11	<4.0	<4.6	<3.5	3.0 J	4.0 J	43	62	18	<13	190	4.0 J	16 J	52	6.8	8.6	<3.0	360	<4.0	<4.6	1.1 J	38	<3.6	<2.6
B8	5	3/25/2024	<4.7	<2.7	1000	<11	<4.0	<4.6	<3.5	<8.7	<5.0	4.1 J	<4.2	<3.6	<13	15	<42	14 J	4.9	1.3 J	33	<3.0	6.6	<4.0	<4.6	14	59	<3.6	<2.6
B9	5	3/25/2024	<4.7	<2.7	130	<11	<4.0	<4.6	<3.5	<8.7	<5.0	200	4.1 J	<3.6	<13	800	<42	13 J	270	1.4 J	5.1 J	<3.0	19	<4.0	<4.6	<5.5	1.2 J	<3.6	<2.6
B10	5	3/25/2024	<4.7	<2.7	3.4 J	<11	<4.0	<4.6	<3.5	<8.7	<5.0	37	7.1	9.7	<13	150	<42	15 J	43	1.9 J	34	<3.0	44	<4.0	<4.6	5.2 J	23	<3.6	<2.6
B11	5	3/25/2024	<4.7	<2.7	2.8 J	<11	<4.0	<4.6	<3.5	<8.7	<5.0	34	7.3	11	<13	140	<42	15 J	41	2.0 J	24	<3.0	45	<4.0	<4.6	4.3 J	26	<3.6	<2.6
B12	5	3/25/2024	<4.7	<2.7	1.9 J	<11	<4.0	<4.6	<3.5	<8.7	<5.0	5.4	5.0	<3.6	<13	20	<42	14 J	6.0	2.1 J	3.3 J	<3.0	55	<4.0	<4.6	0.45 J	16	<3.6	<2.6
B13	5	3/25/2024	<4.7	<2.7	1.1 J	<11	<4.0	<4.6	<3.5	<8.7	<5.0	150	10	6.8	<13	570	<42	12 J	200	1.5 J	7.1	<3.0	130	<4.0	<4.6	1.5 J	0.92 J	<3.6	<2.6
B14	5	3/25/2024	<4.7	<2.7	0.57 J	<11	<4.0	<4.6	<3.5	<8.7	<5.0	21	14	<3.6	<13	81	<42	12 J	22	0.99 J	5.6 J	<3.0	77	<4.0	<4.6	0.62 J	<5.7	<3.6	<2.6
B15	5	3/25/2024	A soil vapor sample was not collected from B15 on this date due to the presence of water in the soil vapor probe's Teflon tubing.																										
B16	5	3/25/2024	<4.7	<2.7	1.7 J	<11	<4.0	<4.6	<3.5	<8.7	<5.0	5.9	7.8	7.3	<13	23	<42	13 J	6.8	0.90 J	8.3	<3.0	57	<4.0	<4.6	<5.5	<5.7	<3.6	<2.6
REGULATORY SCREENING CRITERIA																													
City of Long Beach Methane Action Level			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commercial/Industrial Screening Levels																													
DTSC-SL - Commercial Soil Vapor (AF of 0.03)*			--	--	--	--	1,167	--	--	19	--	--	--	--	--	--	400	--	130,000	67	--	43,333	11,667	--	--	176,667	--	5	
EPA RSL - Commercial Soil Vapor (AF of 0.03)			7,333	600,000	18	13,000	6,000	--	866,667	--	14,667	163	60,000	103,333	29,333	14,667	433,333	40,000	14,667	146,667	1,567	293,333	733,333	6,000	--	100	--	29,333	93
Residential Screening Levels																													
DTSC-SL - Residential Soil Vapor (AF of 0.03)*			--	--	--	--	277	--	--	4.3	--	--	--	--	--	--	33	--	31,333	15	--	10,333	2,767	--	--	43,333	--	0.32	
EPA RSL - Residential Soil Vapor (AF of 0.03)			1,733	140,000	4.0	3,133.33	1,400	--	210,000.00	--	3,333	37	14,000	24,333	7,000	3,333	103,333	3,333	3,333	33,333	367	70,000	173,333	1,400	--	16	--	7,000.00	5.7

- Notes/Abbreviations:**
- Current sampling event
 - Concentrations exceed residential screening levels for default AF of 0.03
 - Concentrations exceed residential and commercial screening levels for default AF of 0.03
 - < Not detected at or above the indicated laboratory reporting limit, reporting limits vary for each compound
 - Not applicable or no published value
 - µg/m³ Micrograms per cubic meter (units)
 - AF Attenuation factor
 - bgs Below ground surface
 - Bold** Reported chemical concentration
 - DTSC Department of Toxic Substances Control
 - EPA Environmental Protection Agency
 - GC Gas chromatography
 - ND Not detected
 - ppm(v) parts per million by volume
 - RSL US EPA Regional Screening Levels, updated November 2023
 - DTSC-SL DTSC-Modified Screening Levels, May 2022
 - * Non-cancer endpoint value used as cancer endpoint value when cancer endpoint is not established
 - 1 Value provided is for ambient or indoor air, not soil vapor
 - J Estimated value

TABLE 7
Groundwater Sample Analytical Results -
Total Petroleum Hydrocarbons and Volatile Organic Compounds

Sample ID	Sample Date	Total Petroleum Hydrocarbons (TPH) EPA Method SW8015B			Volatile Organics by GC/MS+Oxygenates by SW 8260B							
		Carbon Chain C6-C12 TPH -Gasoline	Carbon Chain C13-C28 TPH-Diesel	Carbon Chain C29-C40 TPH-Motor Oil	Chloroform	Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylene	Naphthalene	All Other VOCs
		mg/l	mg/l	mg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
GW-2	5/11/2021	0.10	0.54	<0.1	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	ND
GW-3	5/11/2021	<0.050	1.1	<0.1	4.1	0.79	0.63	<0.50	0.56	<2.0	<1.0	ND
GW-10	5/11/2021	<0.050	0.27	<0.1	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<1.0	ND
REGULATORY SCREENING CRITERIA												
California MCL 2019		NE	NE	NE	NE	1	150	300	1,750*	1,750*	NE	Varies

Notes/Abbreviations:

EPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds
mg/l	milligrams per liter
µg/l	micrograms per liter
<	Not detected at or above the indicated laboratory method reporting limit
ND	Not detected, detection limits vary
NE	Not established
MCL	Maximum Contaminant Level
1,750*	MCL for total xylene

TABLE 8
Summary of Groundwater Analytical Results - Title 22 Metals

			Title 22 Metals EPA Method 6010B																
Sample Identification	Groundwater Depth (Feet bgs)	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Other Metals
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
GW-3	14	5/11/2021	<50	<50	1,100	<50	<50	<50	<50	50	<50	<50	67	<50	57	<50	100	200	ND
GW-10	3	5/11/2021	<50	<50	180	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	62	600	ND
REGULATORY SCREENING CRITERIA																			
California MCL			NE	10	2,000	4.0	5.0	100	NE	1,300	15	NE	NE	50	NE	NE	NE	NE	NA

Notes/Abbreviations:

- < Not detected at or above the indicated laboratory method reporting limit
- Bold** Detected above one or more regulatory screening levels
- bgs Below ground surface
- EPA United States Environmental Protection Agency
- MCL Maximum contaminant level, California RWQCB, updated November 2018
- NA Not applicable
- ND Not detected
- NE Not established
- µg/L Micrograms per liter (units)
- VOCs Volatile organic compounds

TABLE 9
Summary of Physical Property Analyses for Soil Samples

Particle Size Analysis, Organic Carbon Analysis, and Soil Classification

Location or Boring ID	Field Sample ID	Sample Depth in feet below ground surface	Sample Date	Particle Size Summary									Organic Carbon Data		USCS Symbol/Name	
				ASTM D422									Walkley-Black Methodology		ASTM D2488	
				Median Grain Size	Mean Grain Size Description	Gravel	Coarse Sand	Medium Sand	Fine Sand	Silt	Clay	Silt/Clay	Total Organic Carbon	Fraction Organic Carbon	Group Symbol	Group Name
				mm	--	wt. %	wt. %	wt. %	wt. %	wt. %	wt. %	wt. %	mg/kg	g/g	--	--
B5	B5-3.5	3.5-4.5	3/25/24	0.165	Fine sand	2.64	3.94	23.15	48.09	14.54	7.65	22.18	900	9.00E-04	SM	Silty Sand
B10	B10-3.5	3.5-4.5	3/25/24	0.144	Fine sand	0.78	1.76	21.10	54.53	17.20	4.64	21.84	3,140	3.14E-03	SM	Silty Sand
B13	B13-3.5	3.5-4.5	3/25/24	0.181	Fine sand	0.22	0.52	17.90	68.44	9.56	3.36	12.92	2,340	2.34E-03	SP-SM	Poorly graded Sand with Silt

Atterberg Limits Data and Soil Classification for Portion of the Sample Passing No. 40 Sieve (Fine Fraction)

Location or Boring ID	Field Sample ID	Sample Depth in feet below ground surface	Sample Date	Atterberg Limits			USCS Symbol/Name		USDA Soil Texture
				ASTM D4318			ASTM D4318	ASTM D2487	
				Liquid Limit	Plastic Limit	Plasticity Index	Group Symbol	Group Name	
				%	%	--	--	--	
B5	B5-3.5	3.5-4.5	3/25/24	30.0	16.6	13.4	CL	Clayey Sand	Sandy Loam
B10	B10-3.5	3.5-4.5	3/25/24	28.9	18.5	10.4	CL	Clayey Sand	Loamy Sand
B13	B13-3.5	3.5-4.5	3/25/24	20.0	Non-Plastic		CL	Poorly graded Sand with silty clay	Sand

Physical Properties and Fluid Transport Analyses

Location or Boring ID	Field Sample ID	Sample Depth in feet below ground surface	Sample Date	Moisture Content		Density		Porosity				Total Pore Fluid Saturations	Hydraulic Conductivity 25 PSI Confining Stress			Air Permeability 25 PSI Confining Pressure	
				API RP40 /ASTM D2216		API RP 40		API RP 40			Mod. ASTM D425	API RP 40	API RP 40 / EPA 9100			API RP 40	
				--	--	Dry Bulk	Grain	Total	Air-Filled	Water-Filled	Effective	Pore Volume	Effective Permeability to Water	Hydraulic Conductivity	Intrinsic Permeability to Water	Effective Permeability to Air	Specific Permeability to Air
				% weight	cm ³ /cm ³	g/cm ³	g/cm ³	cm ³ /cm ³	cm ³ /cm ³	cm ³ /cm ³	cm ³ /cm ³	% pore volume	millidarcy	cm/s	cm ²	millidarcy	millidarcy
B5	B5-3.5	3.5-4.5	3/25/24	14.6	0.232	1.58	2.67	0.407	0.175	0.232	0.216	56.9	1.46	1.42E-06	1.44E-11	44.0	218
B10	B10-3.5	3.5-4.5	3/25/24	18.1	0.307	1.69	2.67	0.366	0.059	0.307	0.196	83.9	0.499	4.81E-07	4.93E-12	0.511	19.3
B13	B13-3.5	3.5-4.5	3/25/24	16.8	0.275	1.64	2.67	0.385	0.109	0.275	0.271	71.6	6.83	6.68E-06	6.74E-11	3.15	149

Notes/Abbreviations:

-- : Not applicable

API: American Petroleum Institute

ASTM: ASTM International

cm: centimeters

cm²: square centimeters

cm³: cubic centimeters

cm/s: centimeters per second

EPA: Environmental Protection Agency

g/cm³: grams per cubic centimeter

kg: kilograms

mm: millimeters

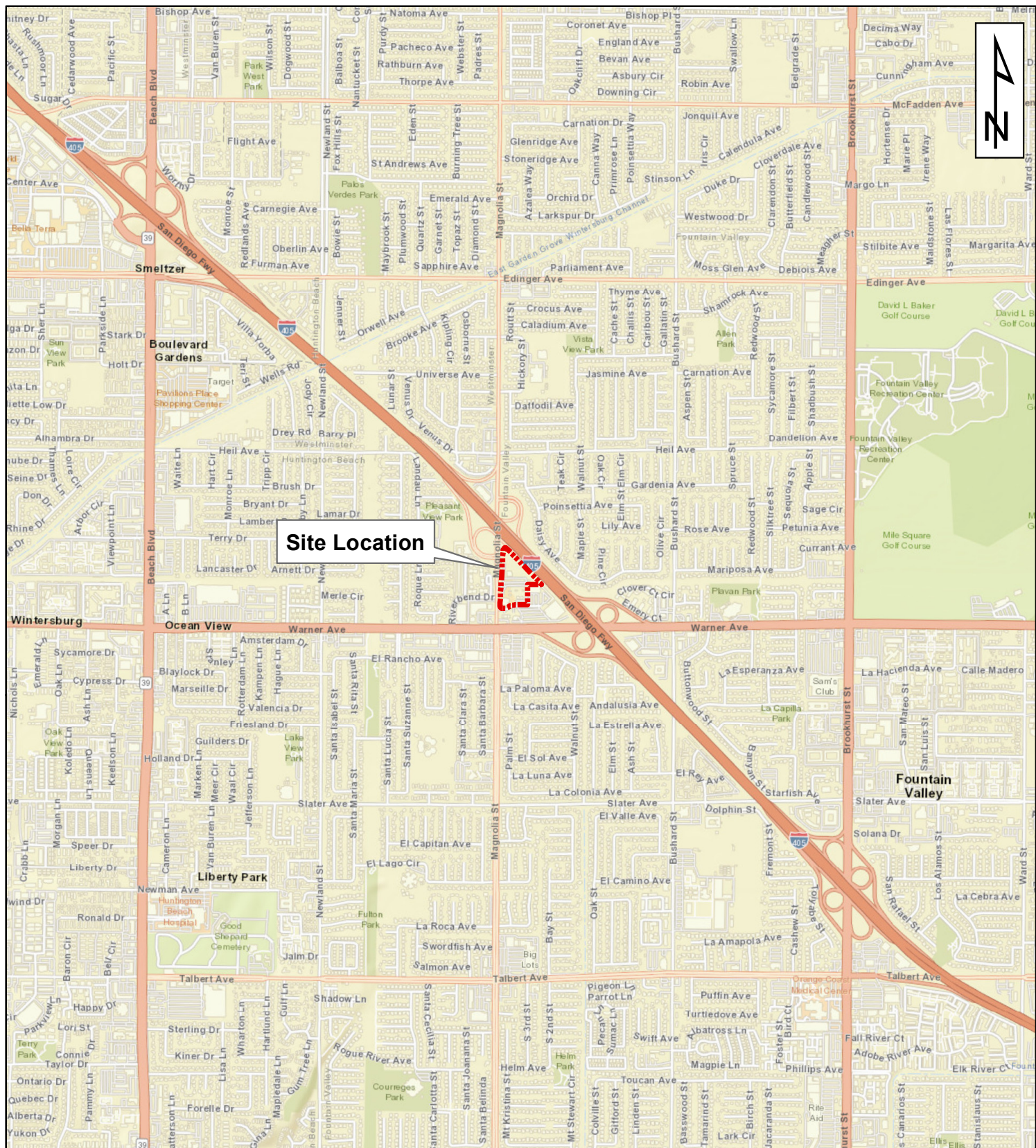
USCS: United Soil Classification System

USDA: United States Department of Agriculture

wt. %: weight percent

FIGURES





Legend



Site Boundary

0 1,000 2,000

Feet



Site

FIGURE 1

Site Vicinity Map

Consolidated Phase II Environmental Site Assessment Report
16800 Magnolia Street and
9063 Recreation Circle
Fountain Valley, California

DATE

7/29/2024

PROJECT NUMBER

2047.28





Legend

- ⬡ Concrete Staining
- ⬢ Two 55-gallon steel drums with soil
- 1,000-gallon, steel, gasoline
- ⊗ Pool chemical and equipment room
- ▭ Former UST location
- ⊗ Observed abandoned groundwater wells
- ▭ Leaked motor oil
- ▭ Pad-mounted Transformer
- - - Site Boundary

FIGURE 2

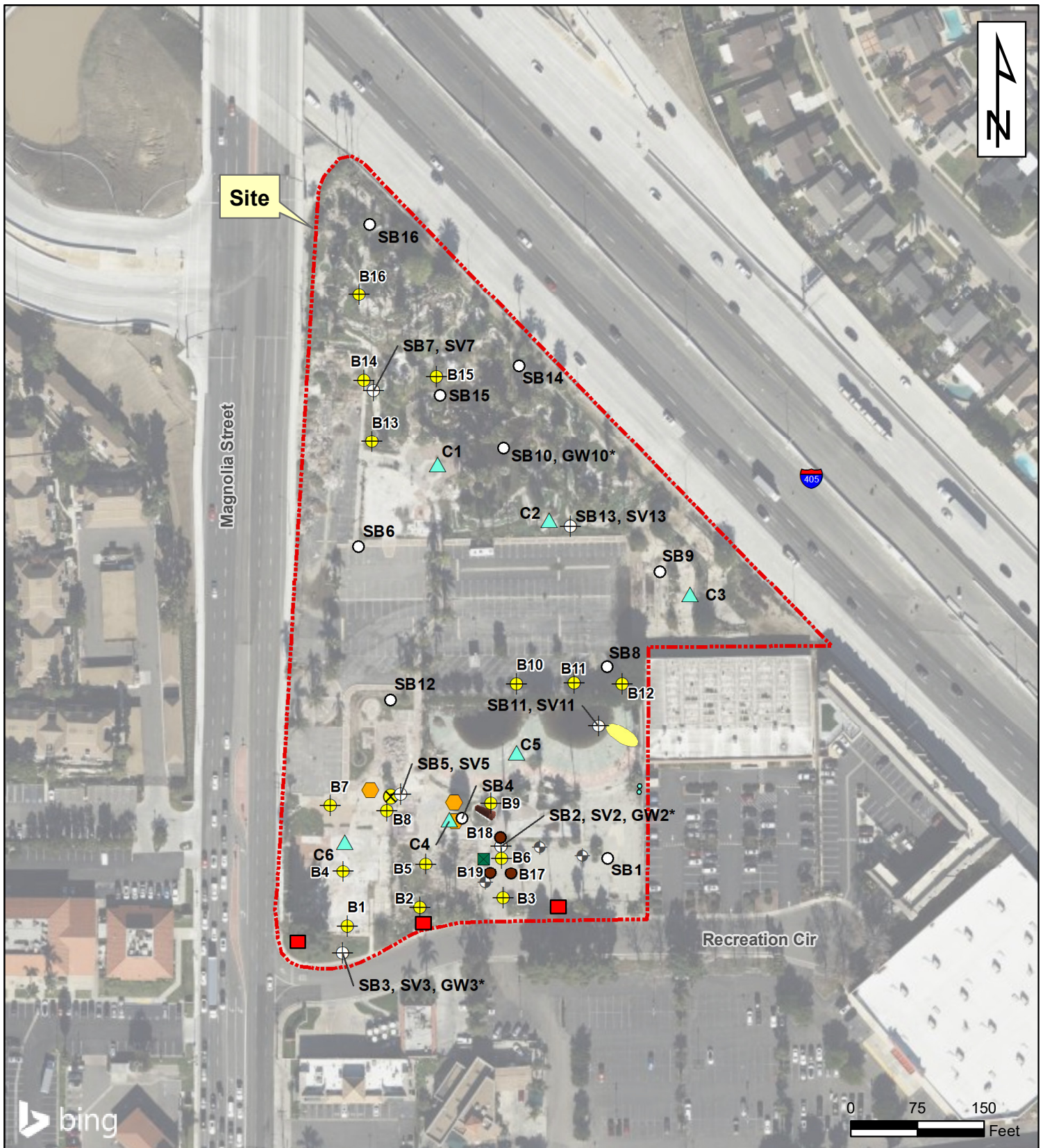
Site Plan

Consolidated Phase II Environmental Site Assessment Report
 16800 Magnolia Street and
 9063 Recreation Circle
 Fountain Valley, California

DATE
 7/29/2024

PROJECT NUMBER
 2047.28

 **northgate**
 environmental management, inc.



Legend

- | | |
|---------------------------------------|--|
| ○ Soil Boring 2021 | ⊗ Pool chemical and equipment room |
| ⊕ Soil Boring and SVP 2021 | ● Former UST location |
| * Grab Groundwater sample | ⊖ Observed abandoned groundwater wells |
| ▲ Concrete Sample | ■ Leaked motor oil |
| ⬡ Concrete Staining | ■ Pad-mounted Transformer |
| ● Two 55-gallon steel drums with soil | ⬢ Site Boundary |
| ■ 1,000-gallon, steel, gasoline | ● Soil Boring 2024 |
| | ⊗ Soil Boring and SVP 2024 |

FIGURE 3

Sampling Locations

Consolidated Phase II Environmental Site Assessment Report
16800 Magnolia Street and
9063 Recreation Circle
Fountain Valley, California

DATE
7/29/2024

PROJECT NUMBER
2047.28

northgate
environmental management, inc.

Project Number: **2047.28**

Well ID: **SV2, SV3, SV5, SV7, SV11, SV13, and
B1 through B16**

Project Name: **Former Boomers, Fountain Valley, CA**

Location: **16800 Magnolia St & 9063 Recreation Circle**

Soil Vapor Survey

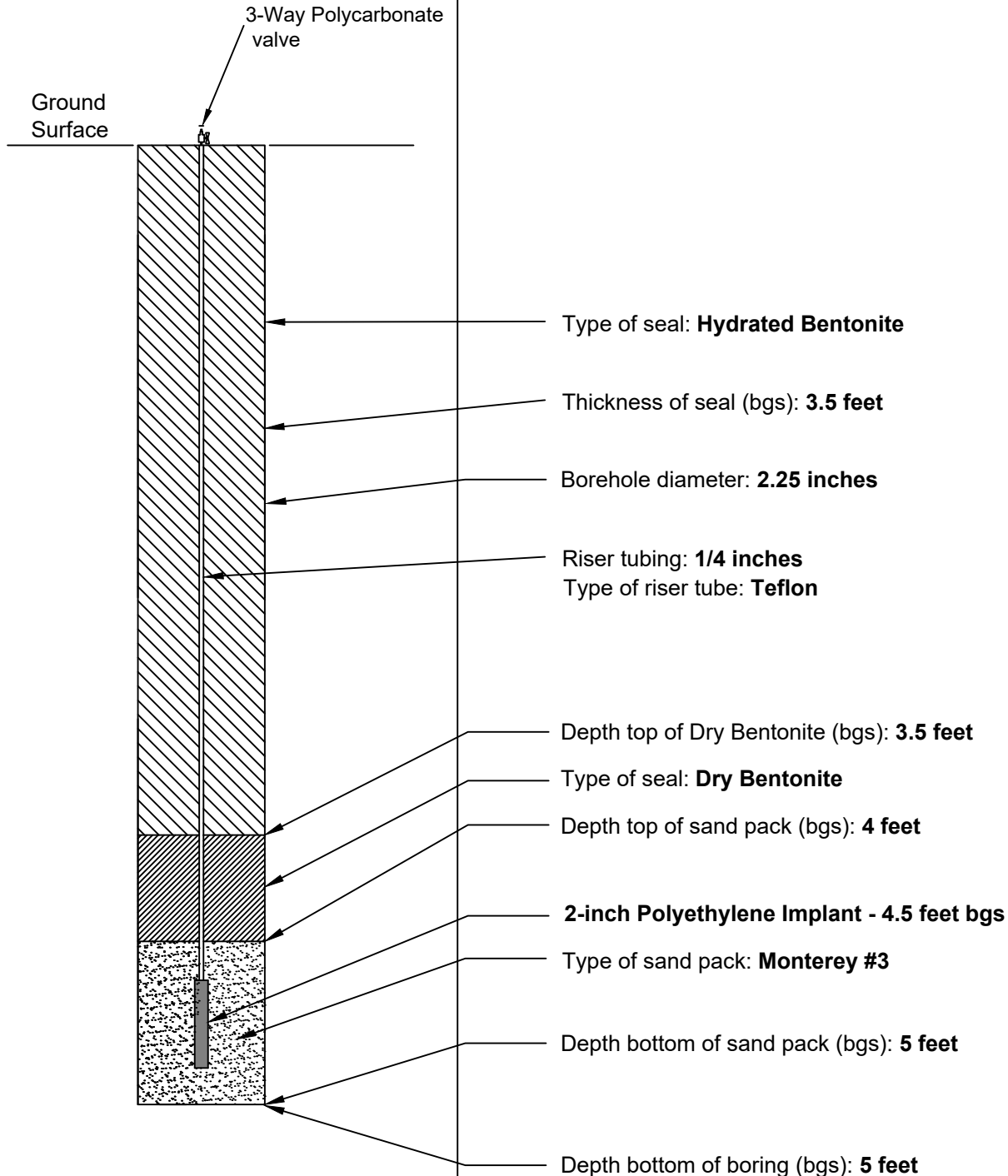
Drawn By: **LP 7/29/2024**

Drilling Method: **Direct Push or Hand Auger**

Date Started: **5/11/2021**

Borehole Dia. (in): **2.25**

Completed: **3/25/2024**





Legend

- Soil Boring 2024
- Soil Boring and SVP 2024
- Soil Boring 2021
- Soil Boring and SVP 2021
- Observed abandoned groundwater wells
- Concrete Sample
- Concrete Staining
- Two 55-gallon steel drums with soil
- Pool chemical and equipment room
- Site Boundary
- Leaked motor oil
- Pad-mounted Transformer
- 1,000-gallon, steel, gasoline AST
- Former UST location
- Shed

- 3/25/2024: Current Sampling Date
- 930: Concentrations Exceed Residential SLs
- 1,300: Concentrations Exceed Residential and Commercial SLs

Notes:

Depths listed are in feet below ground surface. All results are in ug/kg.

< - Not detected above laboratory reporting limit

* - Grab Groundwater sample

** - B15 Not analyzed

AST - Above Storage Tank

ESA - Environmental Site Assessment

SLs - Screening Levels

SVP - Soil Vapor Probe

ug/kg - micrograms per kilogram

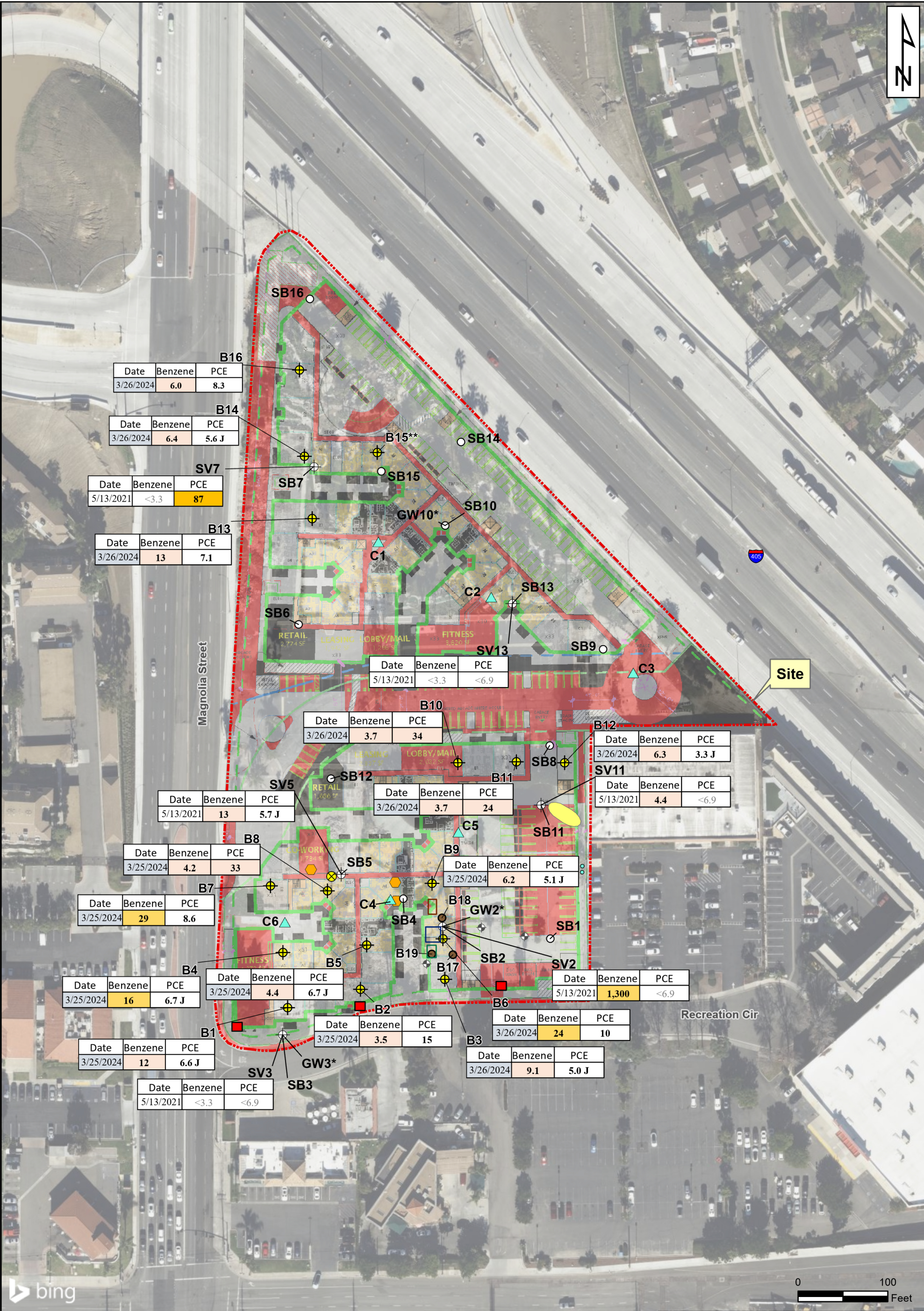
UST - Underground Storage Tank

FIGURE 5

Toxaphene Results in Soil

Consolidated Phase II Environmental Site Assessment Report
16800 Magnolia Street and
9063 Recreation Circle
Fountain Valley, California

DATE	PROJECT NUMBER	northgate environmental management, inc.
7/30/2024	2047.28	



Legend

- Soil Boring 2024
- ⊕

 Soil Boring and SVP 2024
- Soil Boring 2021
- ⊕

 Soil Boring and SVP 2021
- ⊕

 Observed abandoned groundwater wells
- ▲

 Concrete Sample
- Concrete Staining
- Two 55-gallon steel drums with soil
- ⊗

 Pool chemical and equipment room
- ⬜

 Site Boundary
- Leaked motor oil
- Pad-mounted Transformer
- 1,000-gallon, steel, gasoline AST
- Former UST location
- Shed

3/25/2024	Current Sampling Date
4.4	Concentrations Exceed Residential SLs
16	Concentrations Exceed Residential and Commercial SLs

Notes:
All SVPs are screened at 5 feet below ground surface.
All units in ug/m³
< - Not detected above laboratory reporting limit
* - Grab Groundwater sample
** - B15 Not analyzed
AST - Above Storage Tank
ESA - Environmental Site Assessment
J - Estimated value below RL, but above MDL

MDL - Method Detection Limit
PCE - Tetrachloroethene
RL - Laboratory Reporting Limit
SLs - Screening Levels
SVP - Soil Vapor Probe
ug/m³ - micrograms per cubic meter
UST - Underground Storage Tank

FIGURE 6

Benzene and PCE Results in Soil Vapor

Consolidated Phase II Environmental Site Assessment Report
16800 Magnolia Street and
9063 Recreation Circle
Fountain Valley, California

DATE	PROJECT NUMBER	northgate environmental management, inc.
7/30/2024	2047.28	

APPENDIX A
BORING LOGS



Boring Log

Project Number: 2047.28

Boring No.: B-1

Project Name: Magnolia Boomers

Logged by: Ricardo Munoz

Drilling Contractor: Interphase

Date Started: 03/25/24

Date Completed: 03/25/24

Drilling Method: GeoProbe

Total Depth (ft bgs): 5.0

Depth to Water (ft bgs): NA

Borehole Dia. (in): 2.25

Surface Elevation (ft MSL):

Remarks: See vapor probe construction for soil vapor construction.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	10.6 ev PID (ppm)	Backfill
1				Concrete	6 inches of concrete.		
2				ML	Clayey Silt (ML), dark yellowish brown (10YR 4/2), moist.		
4				SM	Sand (SM), moderate yellowish brown (10YR 5/4), moist, fine sand.		
5						0.0	
6					Bottom of boring at 5' bgs. No groundwater encountered. No stains/odors noted.		
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boring Log

Project Number: 2047.28

Boring No.: B-2

Project Name: Magnolia Boomers

Logged by: Ricardo Munoz

Drilling Contractor: Interphase

Date Started: 03/25/24

Date Completed: 03/25/24

Drilling Method: GeoProbe

Total Depth (ft bgs): 5.0

Depth to Water (ft bgs): NA

Borehole Dia. (in): 2.25

Surface Elevation (ft MSL):

Remarks: See vapor probe construction for soil vapor construction.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	10.6 ev PID (ppm)	Backfill
1				Concrete	6 inches of concrete.		
2				ML	Clayey Silt (ML), dark yellowish brown (10YR 4/2), moist.		
3					Becomes moderate yellowish brown (10YR 5/4) at 3.5'.		
4							
5						0.0	
6					Bottom of boring at 5' bgs. No groundwater encountered. No stains/odors noted.		
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boring Log

Project Number: 2047.28

Boring No.: B-3

Project Name: Magnolia Boomers

Logged by: Ricardo Munoz

Drilling Contractor: Interphase

Date Started: 03/25/24

Date Completed: 03/25/24

Drilling Method: GeoProbe

Total Depth (ft bgs): 5.0

Depth to Water (ft bgs): NA

Borehole Dia. (in): 2.25

Surface Elevation (ft MSL):

Remarks: See vapor probe construction for soil vapor construction.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	10.6 ev PID (ppm)	Backfill
1				Concrete	6 inches of concrete.		
2				ML	Clayey Silt (ML), dark yellowish brown (10YR 4/2), moist.		
3							
4				CL	Silty Clay (CL), moderate yellowish brown (10YR 5/2), moist.	0.0	
5							
6					Bottom of boring at 5' bgs. No groundwater encountered. No stains/odors noted.		
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boring Log

Project Number: 2047.28

Boring No.: B-4

Project Name: Magnolia Boomers

Logged by: Ricardo Munoz

Drilling Contractor: Interphase

Date Started: 03/25/24

Date Completed: 03/25/24

Drilling Method: GeoProbe

Total Depth (ft bgs): 5.0

Depth to Water (ft bgs): NA

Borehole Dia. (in): 2.25

Surface Elevation (ft MSL):

Remarks: See vapor probe construction for soil vapor construction.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	10.6 ev PID (ppm)	Backfill
1				Concrete	6 inches of concrete.		
2					Clayey Silt (ML), dark yellowish brown (10YR 4/2), moist.		
3				ML			
4							
5						0.0	
6					Bottom of boring at 5' bgs. No groundwater encountered. No stains/odors noted.		
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boring Log

Project Number: 2047.28

Boring No.: B-5

Project Name: Magnolia Boomers

Logged by: Ricardo Munoz

Drilling Contractor: Interphase

Date Started: 03/25/24

Date Completed: 03/25/24

Drilling Method: GeoProbe

Total Depth (ft bgs): 5.0

Depth to Water (ft bgs): NA

Borehole Dia. (in): 2.25

Surface Elevation (ft MSL):

Remarks: See vapor probe construction for soil vapor construction.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	10.6 ev PID (ppm)	Backfill
1	B5-3.5 1035			Concrete	6 inches of concrete.	0.0	
2				ML	Clayey Silt (ML), dark yellowish brown (10YR 4/2), moist.		
3							
4							
5							
6					Bottom of boring at 5' bgs. No groundwater encountered. No stains/odors noted.		
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boring Log

Project Number: 2047.28

Boring No.: B-6

Project Name: Magnolia Boomers

Logged by: Ricardo Munoz

Drilling Contractor: Interphase

Date Started: 03/25/24

Date Completed: 03/25/24

Drilling Method: GeoProbe

Total Depth (ft bgs): 5.0

Depth to Water (ft bgs): NA

Borehole Dia. (in): 2.25

Surface Elevation (ft MSL):

Remarks: See vapor probe construction for soil vapor construction.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	10.6 ev PID (ppm)	Backfill
1				Concrete	6 inches of concrete.		
2				ML	Clayey Silt (ML), dark yellowish brown (10YR 4/2), moist.		
3				CL	Sily Clay (CL) moderate yellowish brown (10YR 5/4), moist.		
4							
5						0.0	
6					Bottom of boring at 5' bgs. No groundwater encountered. No stains/odors noted.		
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boring Log

Project Number: 2047.28

Boring No.: B-7

Project Name: Magnolia Boomers

Logged by: Ricardo Munoz

Drilling Contractor: Interphase

Date Started: 03/25/24

Date Completed: 03/25/24

Drilling Method: GeoProbe

Total Depth (ft bgs): 5.0

Depth to Water (ft bgs): NA

Borehole Dia. (in): 2.25

Surface Elevation (ft MSL):

Remarks: See vapor probe construction for soil vapor construction.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	10.6 ev PID (ppm)	Backfill
1				Concrete	6 inches of concrete.		
2				ML	Clayey Silt (ML), dark yellowish brown (10YR 4/2), moist.		
3					Sandy Silt (ML), moderate yellowish brown (10YR 5/4), moist, fine sandy silt.		
4				CL	Silty Clay (CL), moderate reddish brown, (10YR 4/5), moist.		
5				SM	Sand (SM), moderate yellowish brown (10YR 5/4), moist, fine sand.	0.0	
6					Bottom of boring at 5' bgs. No groundwater encountered. No stains/odors noted.		
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boring Log

Project Number: 2047.28		Boring No.: B-8	
Project Name: Magnolia Boomers		Logged by: Ricardo Munoz	
Drilling Contractor: Interphase	Date Started: 03/25/24	Date Completed: 03/25/24	
Drilling Method: GeoProbe	Total Depth (ft bgs): 5.0	Depth to Water (ft bgs): NA	
Borehole Dia. (in): 2.25	Surface Elevation (ft MSL):		
Remarks: See vapor probe construction for soil vapor construction.			

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	10.6 ev PID (ppm)	Backfill
1			Concrete		6 inches of concrete.		
2			SP		Sand (SP), very pale orange (10YR 8/2), damp, coarse sand.		
3			ML		Clayey Silt (ML), moderate yellowish brown (10YR 5/4), moist.		
4						0.0	
5					Bottom of boring at 5' bgs. No groundwater encountered. No stains/odors noted.		
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boring Log

Project Number: 2047.28

Boring No.: B-9

Project Name: Magnolia Boomers

Logged by: Ricardo Munoz

Drilling Contractor: Interphase

Date Started: 03/25/24

Date Completed: 03/25/24

Drilling Method: GeoProbe

Total Depth (ft bgs): 5.0

Depth to Water (ft bgs): NA

Borehole Dia. (in): 2.25

Surface Elevation (ft MSL):

Remarks: See vapor probe construction for soil vapor construction.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	10.6 ev PID (ppm)	Backfill
1				Concrete	6 inches of concrete.		
2					Clayey Silt (ML), dark yellowish brown (10YR 4/2), moist.		
3				ML			
4					Becomes moderate yellowish brown, (10YR 5/2) at 3.5'.		
5						0.0	
6					Bottom of boring at 5' bgs. No groundwater encountered. No stains/odors noted.		
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boring Log

Project Number: 2047.28

Boring No.: B-10

Project Name: Magnolia Boomers

Logged by: Ricardo Munoz

Drilling Contractor: Interphase

Date Started: 03/25/24

Date Completed: 03/25/24

Drilling Method: GeoProbe

Total Depth (ft bgs): 5.0

Depth to Water (ft bgs): NA

Borehole Dia. (in): 2.25

Surface Elevation (ft MSL):

Remarks: See vapor probe construction for soil vapor construction.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	10.6 ev PID (ppm)	Backfill
1	B10-3.5 1157	X	Concrete		6 inches of concrete.	0.0	
2			GP		Gravel (GP), dark yellowish brown (10YR 4/2), damp, poorly graded.		
3			ML		Clayey Silt (ML), dark yellowish brown (10YR 4/2), moist.		
4			SM		Sand (SM), moderate yellowish brown (10YR 6/4), moist, fine sand.		
5					Bottom of boring at 5' bgs. No groundwater encountered. No stains/odors noted.		
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boring Log

Project Number: 2047.28

Boring No.: B-11

Project Name: Magnolia Boomers

Logged by: Ricardo Munoz

Drilling Contractor: Interphase

Date Started: 03/25/24

Date Completed: 03/25/24

Drilling Method: GeoProbe

Total Depth (ft bgs): 5.0

Depth to Water (ft bgs): NA

Borehole Dia. (in): 2.25

Surface Elevation (ft MSL):

Remarks: See vapor probe construction for soil vapor construction.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	10.6 ev PID (ppm)	Backfill
0				Concrete	6 inches of concrete.		
1				GP	Gravel (GP), dark yellowish brown (10YR 4/2), damp, poorly graded.		
2							
3				ML	Clayey Silt (ML), dark yellowish brown (10YR 5/4), moist.		
4							
5				SM	Sand (SM), moderate yellowish brown (10YR 5/4), moist, fine sand.	0.0	
6					Bottom of boring at 5' bgs. No groundwater encountered. No stains/odors noted.		
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boring Log

Project Number: 2047.28

Boring No.: B-12

Project Name: Magnolia Boomers

Logged by: Ricardo Munoz

Drilling Contractor: Interphase

Date Started: 03/25/24

Date Completed: 03/25/24

Drilling Method: GeoProbe

Total Depth (ft bgs): 5.0

Depth to Water (ft bgs): NA

Borehole Dia. (in): 2.25

Surface Elevation (ft MSL):

Remarks: See vapor probe construction for soil vapor construction.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	10.6 ev PID (ppm)	Backfill
0				Concrete	6 inches of concrete.		
1				GP	Gravel (GP), dark yellowish brown (10YR 4/2), damp, poorly sorted.		
2							
3				ML	Clayey Silt (ML), dark yellowish brown (10YR 4/2), moist.		
4							
5						0.0	
6					Bottom of boring at 5' bgs. No groundwater encountered. No stains/odors noted.		
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boring Log

Project Number: 2047.28

Boring No.: B-13

Project Name: Magnolia Boomers

Logged by: Ricardo Munoz

Drilling Contractor: Interphase

Date Started: 03/25/24

Date Completed: 03/25/24

Drilling Method: GeoProbe

Total Depth (ft bgs): 5.0

Depth to Water (ft bgs): NA

Borehole Dia. (in): 2.25

Surface Elevation (ft MSL):

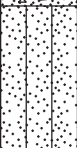
Remarks: See vapor probe construction for soil vapor construction.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	10.6 ev PID (ppm)	Backfill
1	B13-3.5 1310	X	Concrete		6 inches of concrete.	0.0	
2			SP		Sand (SP), dark yellowish brown (10YR 4/2), moist, poorly graded, fine to medium.		
3			ML		Clayey Silt (ML), dark yellowish brown (10YR 4/2), moist.		
4			SM		Sand (SM), moderate yellowish brown (10YR 5/4), moist, fine sand.		
5							
6					Bottom of boring at 5' bgs. No groundwater encountered. No stains/odors noted.		
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boring Log

Project Number: 2047.28	Boring No.: B-14	
Project Name: Magnolia Boomers	Logged by: Ricardo Munoz	
Drilling Contractor: Interphase	Date Started: 03/25/24	Date Completed: 03/25/24
Drilling Method: GeoProbe	Total Depth (ft bgs): 5.0	Depth to Water (ft bgs): NA
Borehole Dia. (in): 2.25	Surface Elevation (ft MSL):	

Remarks: See vapor probe construction for soil vapor construction.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	10.6 ev PID (ppm)	Backfill
1				Concrete	6 inches of concrete.		
2				SM	Silty Sand (SM), dark yellowish brown (10YR 4/2), moist, silty fine sand.		
3				ML	Clayey Silt (ML), dark yellowish brown (10YR 4/2), moist.		
4				SM	Sand (SM), moderate yellowish brown (10YR 5/4), moist, fine silty fine sand.		
5						0.0	
6					Bottom of boring at 5' bgs. No groundwater encountered. No stains/odors noted.		
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boring Log

Project Number: 2047.28

Boring No.: B-15

Project Name: Magnolia Boomers

Logged by: Ricardo Munoz

Drilling Contractor: Interphase

Date Started: 03/25/24

Date Completed: 03/25/24

Drilling Method: GeoProbe

Total Depth (ft bgs): 5.0

Depth to Water (ft bgs): NA

Borehole Dia. (in): 2.25

Surface Elevation (ft MSL):

Remarks: See vapor probe construction for soil vapor construction.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	10.6 ev PID (ppm)	Backfill
1			Concrete	Concrete	6 inches of concrete.		
2			SM	SM	Silty Sand (SM), moderate yellowish brown (10YR 5/4), moist, silty fine sand.		
3			ML	ML	Clayey Silt (ML), dark yellowish brown (10YR 4/2), moist.		
4						0.0	
5					Bottom of boring at 5' bgs. No groundwater encountered. No stains/odors noted.		
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boring Log

Project Number: 2047.28

Boring No.: B-16

Project Name: Magnolia Boomers

Logged by: Ricardo Munoz

Drilling Contractor: Interphase

Date Started: 03/25/24

Date Completed: 03/25/24

Drilling Method: GeoProbe

Total Depth (ft bgs): 5.0

Depth to Water (ft bgs): NA

Borehole Dia. (in): 2.25

Surface Elevation (ft MSL):

Remarks: See vapor probe construction for soil vapor construction.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	10.6 ev PID (ppm)	Backfill
1				Concrete	6 inches of concrete.		
2					Clayey Silt (ML), dark yellowish brown (10YR 4/2), moist.		
3				ML			
4							
5						0.0	
6					Bottom of boring at 5' bgs. No groundwater encountered. No stains/odors noted.		
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boring Log

Project Number: 2047.28

Boring No.: B-17

Project Name: Magnolia Boomers

Logged by: Ricardo Munoz

Drilling Contractor: Interphase

Date Started: 03/25/24

Date Completed: 03/25/24

Drilling Method: Hand Auger

Total Depth (ft bgs): 5.0

Depth to Water (ft bgs): NA

Borehole Dia. (in): 2.5

Surface Elevation (ft MSL):

Remarks: See vapor probe construction for soil vapor construction.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	10.6 ev PID (ppm)	Backfill
1	B17-1 1427	X		Concrete	6 inches of concrete.		
2		X		ML	Clayey Silt (ML), dark yellowish brown (10YR 4/2), moist.	0.5	
3	B17-3 1429	X		CL	Sily Clay (CL) moderate yellowish brown (10YR 5/4), moist.	0.0	
4	B17-5 1433	X		CL		0.0	
5		X			Bottom of boring at 5' bgs. No groundwater encountered. No stains/odors noted.		
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boring Log

Project Number: 2047.28

Boring No.: B-18

Project Name: Magnolia Boomers

Logged by: Ricardo Munoz

Drilling Contractor: Interphase

Date Started: 03/25/24

Date Completed: 03/25/24

Drilling Method: Hand Auger

Total Depth (ft bgs): 5.0

Depth to Water (ft bgs): NA

Borehole Dia. (in): 2.5

Surface Elevation (ft MSL):

Remarks: See vapor probe construction for soil vapor construction.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	10.6 ev PID (ppm)	Backfill
1	B18-1 1500	X		Concrete	6 inches of concrete.	0.0	
2		X		ML	Clayey Silt (ML), dark yellowish brown (10YR 4/2), moist.	0.0	
3	B18-3 1502	X		CL	Sily Clay (CL) moderate yellowish brown (10YR 5/4), moist.	0.0	
4	B18-5 1504	X		CL		0.0	
5		X			Bottom of boring at 5' bgs. No groundwater encountered. No stains/odors noted.		
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boring Log

Project Number: 2047.28

Boring No.: B-19

Project Name: Magnolia Boomers

Logged by: Ricardo Munoz

Drilling Contractor: Interphase

Date Started: 03/25/24

Date Completed: 03/25/24

Drilling Method: Hand Auger

Total Depth (ft bgs): 5.0

Depth to Water (ft bgs): NA

Borehole Dia. (in): 2.5

Surface Elevation (ft MSL):

Remarks: See vapor probe construction for soil vapor construction.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	10.6 ev PID (ppm)	Backfill
1	B19-1 1530	X		Concrete	6 inches of concrete.	0.1	
2		X		ML	Clayey Silt (ML), dark yellowish brown (10YR 4/2), moist.		
3	B19-3 1532	X		CL	Sily Clay (CL) moderate yellowish brown (10YR 5/4), moist.	0.0	
4		X					
5	B19-5 1534	X				0.0	
6					Bottom of boring at 5' bgs. No groundwater encountered. No stains/odors noted.		
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boring Log

Project Number: 2047.28	Boring No.: SB-1	
Project Name: Boomers, Fountain Valley	Logged by: Shayna Avila	
Location: 16800 Magnolia St & 9063 Recreation Circle	Date Started: 05/11/21	Date Completed: 05/11/21
Drilling Contractor: Strongarm Env.	Total Depth (ft bgs): 5.0	Depth to Water (ft bgs): NA
Drilling Method: Direct Push	Borehole Dia. (in): 2.25	Surface Elevation (ft MSL): NA

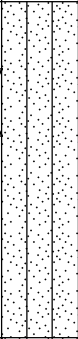
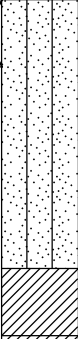
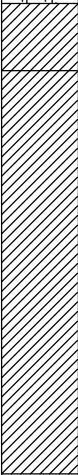
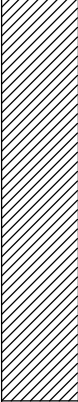
Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Well Construction
1	SB-1-1 08:20			CL	6" Concrete.		0.0	
2					Silty Clay (CL): Fine-grained, low plasticity, well sorted, poorly graded, dark brown, no odor or staining.			
3								
4								
5	SB-1-5 08:30			ML	Silty Sand (ML): Fine-grained, low plasticity Clay, well sorted, poorly graded, brown, no odor or staining.		0.0	
6					Total depth = 5' bgs.			
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								

Boring Log

Project Number: 2047.28	Boring No.: SB-2	
Project Name: Boomers, Fountain Valley	Logged by: Shayna Avila	
Location: 16800 Magnolia St & 9063 Recreation Circle	Date Started: 05/11/21	Date Completed: 05/11/21
Drilling Contractor: Strongarm Env.	Total Depth (ft bgs): 16.0	Depth to Water (ft bgs): NA
Drilling Method: Direct Push	Borehole Dia. (in): 2.25	Surface Elevation (ft MSL): NA

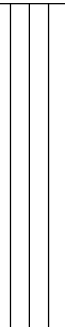
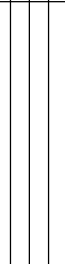
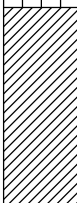
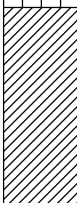
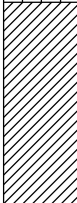
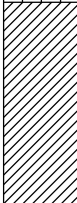
Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Well Construction
1	SB-2-1 13:00			SM	Silty Sand (SM): Fine-grained, brown, moist, no odor or staining.		0.1	
2								
3								
4								
5	SB-2-5 13:05			SM	Silty Sand (SM): Fine-grained, brown, moist, no odor or staining.		0.2	
6								
7								
8								
9				CL	Silty Sandy Clay (CL): Low plasticity, moist.			
10					Silty Sandy Clay (CL): Low plasticity, saturated.			
11								
12								
13				CL				
14								
15								
16								
17					Total depth = 16' bgs.			
18								
19								

Boring Log

Project Number: 2047.28	Boring No.: SB-3	
Project Name: Boomers, Fountain Valley	Logged by: Shayna Avila	
Location: 16800 Magnolia St & 9063 Recreation Circle	Date Started: 05/11/21	Date Completed: 05/11/21
Drilling Contractor: Strongarm Env.	Total Depth (ft bgs): 16.0	Depth to Water (ft bgs): 14
Drilling Method: Direct Push	Borehole Dia. (in): 2.25	Surface Elevation (ft MSL): NA

Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Well Construction
1	SB-3-1 08:57			ML	Silty Sand (SM): Fine-grained, fine Sand, brown, moist, well graded, poorly sorted.		0.0	
2								
3								
4								
5	SB-3-5 09:00			ML	Silt (ML): Fine-grained Silts and Sands, brown, moist, well graded, poorly sorted.		0.2	
6								
7								
8								
9				CL	Silty Sandy Clay (CL): Medium plasticity, brown, moist, well graded.			
10								
11								
12								
13				ML	Sandy Silt (ML): Fine, moderate yellowish brown, moist.			
14								
15								
16								
17	Total depth = 16' bgs. Groundwater encountered at 1' bgs. No stained or odorous soil noted.							
18								
19								

Boring Log

Project Number: 2047.28	Boring No.: SB-4	
Project Name: Boomers, Fountain Valley	Logged by: Shayna Avila	
Location: 16800 Magnolia St & 9063 Recreation Circle	Date Started: 05/11/21	Date Completed: 05/11/21
Drilling Contractor: Strongarm Env.	Total Depth (ft bgs): 5.0	Depth to Water (ft bgs): NA
Drilling Method: Direct Push	Borehole Dia. (in): 2.25	Surface Elevation (ft MSL): NA

Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Well Construction
1	SB-1-1 08:20			Concrete	32" Concrete.		0.0	
2								
3								
4								
5	SB-1-5 08:30			ML	Silty Sandy Clay (ML): Fine-grained, low plasticity, dark grey to black, well graded, poorly sorted, discolored.		0.0	
6				CL	Silty Sandy Clay (CL): Medium plasticity, brown, moist.			
7				ML	Silty Clay (ML): Fine-grained, brown, moist, moderate plasticity.			
8					Total depth = 5' bgs.			
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								

Boring Log

Project Number: 2047.28	Boring No.: SB-5	
Project Name: Boomers, Fountain Valley	Logged by: Shayna Avila	
Location: 16800 Magnolia St & 9063 Recreation Circle	Date Started: 05/11/21	Date Completed: 05/11/21
Drilling Contractor: Strongarm Env.	Total Depth (ft bgs): 5.0	Depth to Water (ft bgs): NA
Drilling Method: Direct Push	Borehole Dia. (in): 2.25	Surface Elevation (ft MSL): NA

Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Well Construction
1	SB-5-1 09:55			ML	Silty Sand (ML): Fine-grained, brown, moist, no odor, no discoloration.		0.2	
2								
3								
4								
5	SB-5-5 10:00			ML	Silty Sand (ML): Fine-grained, brown, moist, no odor, no discoloration. Total depth = 5' bgs.		0.7	
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								

Boring Log

Project Number: 2047.28	Boring No.: SB-6	
Project Name: Boomers, Fountain Valley	Logged by: Shayna Avila	
Location: 16800 Magnolia St & 9063 Recreation Circle	Date Started: 05/11/21	Date Completed: 05/11/21
Drilling Contractor: Strongarm Env.	Total Depth (ft bgs): 5.0	Depth to Water (ft bgs): NA
Drilling Method: Direct Push	Borehole Dia. (in): 2.25	Surface Elevation (ft MSL): NA

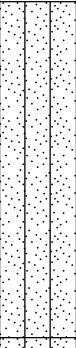
Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Well Construction
1	SB-6-1 10:40			ML	Silty Sandy Clays (ML): Fine grained, brown, low plasticity, no odor or staining.		0.0	
2								
3								
4								
5	SB-6-5 10:45			ML	Silty Sandy Clays (ML): Fine grained, brown, low plasticity, no odor or staining. Total depth = 5' bgs.		0.0	
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								

Boring Log

Project Number: 2047.28	Boring No.: SB-7	
Project Name: Boomers, Fountain Valley	Logged by: Shayna Avila	
Location: 16800 Magnolia St & 9063 Recreation Circle	Date Started: 05/11/21	Date Completed: 05/11/21
Drilling Contractor: Strongarm Env.	Total Depth (ft bgs): 5.0	Depth to Water (ft bgs): NA
Drilling Method: Direct Push	Borehole Dia. (in): 2.25	Surface Elevation (ft MSL): NA

Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Well Construction
1	SB-7-1 10:55			SM	Silty Sand (SM): Fine-grained, brown, moist, no odor, no staining.		0.0	
2								
3								
4								
5	SB-7-5 11:05			SM	Silty Sand (SM): Fine-grained, brown, moist, no odor, no staining. Total depth = 5' bgs.		0.0	
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								

Boring Log

Project Number: 2047.28	Boring No.: SB-8	
Project Name: Boomers, Fountain Valley	Logged by: Shayna Avila	
Location: 16800 Magnolia St & 9063 Recreation Circle	Date Started: 05/11/21	Date Completed: 05/11/21
Drilling Contractor: Strongarm Env.	Total Depth (ft bgs): 5.0	Depth to Water (ft bgs): NA
Drilling Method: Direct Push	Borehole Dia. (in): 2.25	Surface Elevation (ft MSL): NA

Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Well Construction
1	SB-8-1 11:25			ML	Silt (ML): Fine grained, brown, Clays of low plastiity.		0.0	
2								
3								
4								
5	SB-8-5 11:30			ML	Silt (ML): Fine grained, brown, Clays of low plasticity, brick inclusions, red brick fill material. Total depth = 5' bgs.		0.0	
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								

Boring Log

Project Number: 2047.28	Boring No.: SB-9	
Project Name: Boomers, Fountain Valley	Logged by: Shayna Avila	
Location: 16800 Magnolia St & 9063 Recreation Circle	Date Started: 05/11/21	Date Completed: 05/11/21
Drilling Contractor: Strongarm Env.	Total Depth (ft bgs): 5.0	Depth to Water (ft bgs): NA
Drilling Method: Direct Push	Borehole Dia. (in): 2.25	Surface Elevation (ft MSL): NA

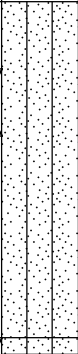
Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Well Construction
1	SB-9-1 11:40			CL	Silty Sandy Clay (CL): Medium grained, brown, low plasticity, no odor or staining.		0.0	
2								
3								
4								
5	SB-9-5 11:45			CL	Silty Sandy Clay (CL): Fine-medium grained, brown, low plasticity, no odor or staining. Total depth = 5' bgs.		0.0	
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								

Boring Log

Project Number: 2047.28	Boring No.: SB-10	
Project Name: Boomers, Fountain Valley	Logged by: Shayna Avila	
Location: 16800 Magnolia St & 9063 Recreation Circle	Date Started: 05/11/21	Date Completed: 05/11/21
Drilling Contractor: Strongarm Env.	Total Depth (ft bgs): 5.0	Depth to Water (ft bgs): NA
Drilling Method: Direct Push	Borehole Dia. (in): 2.25	Surface Elevation (ft MSL): NA

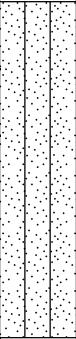
Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Well Construction
1	SB-10-1 11:55			SM	Silty Sand (SM): Fine-grained, brown, moist, well graded.		0.3	
2								
3								
4								
5	SB-10-5 12:00			SM	Silty Sand (SM): Fine-grained, brown, saturated, well graded. Total depth = 5' bgs.		0.0	
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								

Boring Log

Project Number: 2047.28	Boring No.: SB-11	
Project Name: Boomers, Fountain Valley	Logged by: Shayna Avila	
Location: 16800 Magnolia St & 9063 Recreation Circle	Date Started: 05/11/21	Date Completed: 05/11/21
Drilling Contractor: Strongarm Env.	Total Depth (ft bgs): 5.0	Depth to Water (ft bgs): NA
Drilling Method: Direct Push	Borehole Dia. (in): 2.25	Surface Elevation (ft MSL): NA

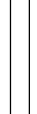
Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Well Construction
1	SB-11-1			SM	Silty Sand (SM): Fine-grained, brown, moist, well graded.		0.0	
2								
3								
4								
5	SB-11-5				Silty Sand (SM): Fine-grained, brown, moist, well graded. Total depth = 5' bgs.		0.0	
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								

Boring Log

Project Number: 2047.28	Boring No.: SB-12	
Project Name: Boomers, Fountain Valley	Logged by: Ricardo Munoz	
Location: 16800 Magnolia St & 9063 Recreation Circle	Date Started: 05/11/21	Date Completed: 05/11/21
Drilling Contractor: Strongarm Env.	Total Depth (ft bgs): 5.0	Depth to Water (ft bgs): NA
Drilling Method: Hand Auger	Borehole Dia. (in): 4	Surface Elevation (ft MSL): NA

Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Well Construction		
1	SB-12-1 12:55			ML	Fine Sandy Silt with minor fine Gravel (ML): Very pale orange (10YR 8/2), moist.		0.4			
2									SM	Silty fine Sand (SM): Moderate yellowish brown (10YR 5/4), moist.
3										
4										
5	SB-12-5 13:10				Total depth = 5' bgs. No groundwater encountered. No stained/odorous soil noted.		0.3			
6										
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13										
14										
15										
16										
17										
18										
19										

Boring Log

Project Number: 2047.28	Boring No.: SB-13	
Project Name: Boomers, Fountain Valley	Logged by: Ricardo Munoz	
Location: 16800 Magnolia St & 9063 Recreation Circle	Date Started: 05/11/21	Date Completed: 05/11/21
Drilling Contractor: Strongarm Env.	Total Depth (ft bgs): 5.0	Depth to Water (ft bgs): NA
Drilling Method: Hand Auger	Borehole Dia. (in): 4	Surface Elevation (ft MSL): NA

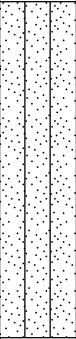
Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Well Construction
1	SB-13-1 12:25			ML	Fine Sandy Silt with minor fine Gravel (ML): Very pale orange (10YR 8/2), moist.		0.1	
2				SM	Silty fine Sand (SM): Moderate yellowish brown (10YR 5/4), moist.			
3								
4								
5	SB-13-5 12:30				Total depth = 5' bgs. No groundwater encountered. No stained/odorous soil noted.		0.1	
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								

Boring Log

Project Number: 2047.28	Boring No.: SB-14	
Project Name: Boomers, Fountain Valley	Logged by: Ricardo Munoz	
Location: 16800 Magnolia St & 9063 Recreation Circle	Date Started: 05/11/21	Date Completed: 05/11/21
Drilling Contractor: Strongarm Env.	Total Depth (ft bgs): 5.0	Depth to Water (ft bgs): NA
Drilling Method: Hand Auger	Borehole Dia. (in): 4	Surface Elevation (ft MSL): NA

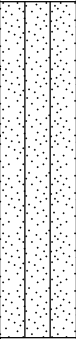
Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Well Construction
1	SB-14-1 11:55			SM	Silty fine Sand (SM): Moderate yellowish brown (10YR 5/4), moist.		0.1	
2								
3								
4								
5	SB-14-5 12:05				Total depth = 5' bgs. No groundwater encountered. No stained/odorous soil noted.		0.1	
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								

Boring Log

Project Number: 2047.28	Boring No.: SB-15	
Project Name: Boomers, Fountain Valley	Logged by: Ricardo Munoz	
Location: 16800 Magnolia St & 9063 Recreation Circle	Date Started: 05/11/21	Date Completed: 05/11/21
Drilling Contractor: Strongarm Env.	Total Depth (ft bgs): 5.0	Depth to Water (ft bgs): NA
Drilling Method: Hand Auger	Borehole Dia. (in): 4	Surface Elevation (ft MSL): NA

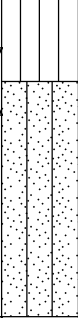
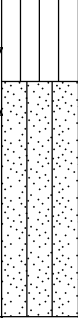
Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Well Construction
1	SB-15-1 11:35			SM	Silty fine Sand with minor fine Gravel SM): Moderate yellowish brown (10YR 5/4), moist.		0.0	
2								
3								
4								
5	SB-15-5 11:40				Total depth = 5' bgs. No groundwater encountered. No stained/odorous soil noted.		0.0	
6								
7								
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11								
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14								
15								
16								
17								
18								
19								

Boring Log

Project Number: 2047.28	Boring No.: SB-16	
Project Name: Boomers, Fountain Valley	Logged by: Ricardo Munoz	
Location: 16800 Magnolia St & 9063 Recreation Circle	Date Started: 05/11/21	Date Completed: 05/11/21
Drilling Contractor: Strongarm Env.	Total Depth (ft bgs): 5.0	Depth to Water (ft bgs): NA
Drilling Method: Hand Auger	Borehole Dia. (in): 4	Surface Elevation (ft MSL): NA

Remarks:

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Well Construction
1	SB-16-1 11:15			ML	Fine Sandy Silt with minor fine Gravel (ML): Very pale orange (10YR 8/2), damp.		0.0	
2				SM	Silty fine Sand (SM): Dark yellowish brown (10YR 4/2), moist.			
3								
4								
5	SB-16-5 11:25				Total depth = 5' bgs. No groundwater encountered. No stained/odorous soil noted.		0.0	
6								
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11								
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APPENDIX B

LABORATORY ANALYTICAL REPORTS





25712 Commercentre Drive
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949.297.5020 Phone
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20 May 2021

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653
RE: Holland FV

Enclosed are the results of analyses for samples received by the laboratory on 05/11/21 17:48. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Lee
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
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949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB1-1	T211590-01	Soil	05/11/21 08:20	05/11/21 17:48
SB1-5	T211590-02	Soil	05/11/21 08:30	05/11/21 17:48
SB3-1	T211590-03	Soil	05/11/21 08:57	05/11/21 17:48
SB3-5	T211590-04	Soil	05/11/21 09:00	05/11/21 17:48
GW-3	T211590-05	Water	05/11/21 12:30	05/11/21 17:48
SB4-3	T211590-06	Soil	05/11/21 09:40	05/11/21 17:48
SB4-5	T211590-07	Soil	05/11/21 09:50	05/11/21 17:48
SB5-1	T211590-08	Soil	05/11/21 09:55	05/11/21 17:48
SB5-5	T211590-09	Soil	05/11/21 10:00	05/11/21 17:48
SB6-1	T211590-10	Soil	05/11/21 10:40	05/11/21 17:48
SB6-5	T211590-11	Soil	05/11/21 10:45	05/11/21 17:48
SB7-1	T211590-12	Soil	05/11/21 10:58	05/11/21 17:48
SB7-5	T211590-13	Soil	05/11/21 11:05	05/11/21 17:48
SB8-1	T211590-14	Soil	05/11/21 11:25	05/11/21 17:48
SB8-5	T211590-15	Soil	05/11/21 11:30	05/11/21 17:48
SB10-1	T211590-16	Soil	05/11/21 12:00	05/11/21 17:48
SB10-5	T211590-17	Soil	05/11/21 12:05	05/11/21 17:48
GW-10	T211590-18	Water	05/11/21 14:30	05/11/21 17:48
SB2-1	T211590-19	Soil	05/11/21 13:00	05/11/21 17:48
SB2-5	T211590-20	Soil	05/11/21 13:05	05/11/21 17:48
SB11-1	T211590-21	Soil	05/11/21 14:05	05/11/21 17:48
SB11-5	T211590-22	Soil	05/11/21 14:10	05/11/21 17:48
SB12-1	T211590-23	Soil	05/11/21 12:55	05/11/21 17:48
SB12-5	T211590-24	Soil	05/11/21 13:10	05/11/21 17:48
SB13-1	T211590-25	Soil	05/11/21 12:25	05/11/21 17:48
SB13-5	T211590-26	Soil	05/11/21 12:30	05/11/21 17:48

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Jeff Lee, Project Manager



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB14-1	T211590-27	Soil	05/11/21 11:55	05/11/21 17:48
SB14-5	T211590-28	Soil	05/11/21 12:05	05/11/21 17:48
SB15-1	T211590-29	Soil	05/11/21 11:35	05/11/21 17:48
SB15-5	T211590-30	Soil	05/11/21 11:40	05/11/21 17:48
SB16-1	T211590-31	Soil	05/11/21 11:15	05/11/21 17:48
SB16-5	T211590-32	Soil	05/11/21 11:25	05/11/21 17:48
GW-2	T211590-33	Water	05/11/21 16:00	05/11/21 17:48
SB9-1	T211590-34	Soil	05/11/21 11:40	05/11/21 17:48
SB9-5	T211590-35	Soil	05/11/21 11:45	05/11/21 17:48

Samples T211590-01,02,03,04,06,07,08,09,10,11 were received on 5/12/21 8:45AM with receiving temperature of 4.1C. Samples were received in good condition and logged under the same work order as the samples received on 5/11/21.

Samples SB9-1 and SB9-5 were not listed on the CoC. These two samples are added to the work order as samples T211590-34, and -35.

Due to lack of sample volume, sample GW2 will only analyze for VOC and TPH per client's request over phone on 5/12/21.
JL 5/12/21

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

DETECTIONS SUMMARY

Sample ID: SB1-1

Laboratory ID: T211590-01

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	59	1.0		mg/kg	EPA 6010b	
Chromium	10	2.0		mg/kg	EPA 6010b	
Cobalt	5.9	2.0		mg/kg	EPA 6010b	
Copper	8.5	1.0		mg/kg	EPA 6010b	
Nickel	6.7	2.0		mg/kg	EPA 6010b	
Vanadium	25	5.0		mg/kg	EPA 6010b	
Zinc	32	1.0		mg/kg	EPA 6010b	
Benzene	19	2.9		ug/kg	EPA 8260B/5035	
Toluene	18	2.9		ug/kg	EPA 8260B/5035	
Ethylbenzene	3.0	2.9		ug/kg	EPA 8260B/5035	

Sample ID: SB1-5

Laboratory ID: T211590-02

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	12	10		mg/kg	EPA 8015B	
Barium	33	1.0		mg/kg	EPA 6010b	
Chromium	7.8	2.0		mg/kg	EPA 6010b	
Cobalt	4.8	2.0		mg/kg	EPA 6010b	
Copper	5.1	1.0		mg/kg	EPA 6010b	
Nickel	5.0	2.0		mg/kg	EPA 6010b	
Vanadium	23	5.0		mg/kg	EPA 6010b	
Zinc	23	1.0		mg/kg	EPA 6010b	

Sample ID: SB3-1

Laboratory ID: T211590-03

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	14	10		mg/kg	EPA 8015B	
Barium	58	1.0		mg/kg	EPA 6010b	
Chromium	12	2.0		mg/kg	EPA 6010b	
Cobalt	6.8	2.0		mg/kg	EPA 6010b	
Copper	12	1.0		mg/kg	EPA 6010b	

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Jeff Lee, Project Manager



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24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Sample ID: SB3-1

Laboratory ID: T211590-03

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	9.5	3.0		mg/kg	EPA 6010b	
Nickel	8.0	2.0		mg/kg	EPA 6010b	
Vanadium	28	5.0		mg/kg	EPA 6010b	
Zinc	41	1.0		mg/kg	EPA 6010b	
4,4'-DDE	110	25		ug/kg	EPA 8081A	
4,4'-DDT	8.4	5.0		ug/kg	EPA 8081A	
Toxaphene	220	20		ug/kg	EPA 8081A	

Sample ID: SB3-5

Laboratory ID: T211590-04

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	12	10		mg/kg	EPA 8015B	
Barium	51	1.0		mg/kg	EPA 6010b	
Chromium	9.6	2.0		mg/kg	EPA 6010b	
Cobalt	6.1	2.0		mg/kg	EPA 6010b	
Copper	5.9	1.0		mg/kg	EPA 6010b	
Nickel	6.5	2.0		mg/kg	EPA 6010b	
Vanadium	27	5.0		mg/kg	EPA 6010b	
Zinc	33	1.0		mg/kg	EPA 6010b	
Ethylbenzene	2.7	2.5		ug/kg	EPA 8260B/5035	
m,p-Xylene	13	5.0		ug/kg	EPA 8260B/5035	
o-Xylene	3.5	2.5		ug/kg	EPA 8260B/5035	

Sample ID: GW-3

Laboratory ID: T211590-05

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	1.1	0.050		mg/l	EPA 8015B	
Silver	57	50		ug/l	EPA 6010b	
Barium	1100	50		ug/l	EPA 6010b	
Copper	50	50		ug/l	EPA 6010b	
Nickel	67	50		ug/l	EPA 6010b	
Vanadium	100	50		ug/l	EPA 6010b	
Zinc	200	50		ug/l	EPA 6010b	
Chloroform	4.1	1.0		ug/l	EPA 8260B	
Benzene	0.79	0.50		ug/l	EPA 8260B	

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24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Sample ID: GW-3

Laboratory ID: T211590-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Toluene	0.63	0.50	ug/l	EPA 8260B	
o-Xylene	0.56	0.50	ug/l	EPA 8260B	

Sample ID: SB4-3

Laboratory ID: T211590-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C29-C40 (MORO)	17	10	mg/kg	EPA 8015B	
Silver	2.1	2.0	mg/kg	EPA 6010b	
Barium	49	1.0	mg/kg	EPA 6010b	
Chromium	12	2.0	mg/kg	EPA 6010b	
Cobalt	3.6	2.0	mg/kg	EPA 6010b	
Copper	8.5	1.0	mg/kg	EPA 6010b	
Lead	5.0	3.0	mg/kg	EPA 6010b	
Nickel	4.9	2.0	mg/kg	EPA 6010b	
Vanadium	17	5.0	mg/kg	EPA 6010b	
Zinc	36	1.0	mg/kg	EPA 6010b	
Benzene	8.5	3.1	ug/kg	EPA 8260B/5035	
Toluene	7.2	3.1	ug/kg	EPA 8260B/5035	

Sample ID: SB4-5

Laboratory ID: T211590-07

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	53	0.91	mg/kg	EPA 6010b	
Chromium	8.9	1.8	mg/kg	EPA 6010b	
Cobalt	5.6	1.8	mg/kg	EPA 6010b	
Copper	7.9	0.91	mg/kg	EPA 6010b	
Nickel	6.5	1.8	mg/kg	EPA 6010b	
Vanadium	23	4.5	mg/kg	EPA 6010b	
Zinc	30	0.91	mg/kg	EPA 6010b	

Sample ID: SB5-1

Laboratory ID: T211590-08

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C29-C40 (MORO)	20	10	mg/kg	EPA 8015B	

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Jeff Lee, Project Manager



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Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Sample ID: SB5-1

Laboratory ID: T211590-08

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	54	1.0		mg/kg	EPA 6010b	
Chromium	9.8	2.0		mg/kg	EPA 6010b	
Cobalt	5.9	2.0		mg/kg	EPA 6010b	
Copper	11	1.0		mg/kg	EPA 6010b	
Lead	5.7	3.0		mg/kg	EPA 6010b	
Nickel	6.8	2.0		mg/kg	EPA 6010b	
Vanadium	23	5.0		mg/kg	EPA 6010b	
Zinc	36	1.0		mg/kg	EPA 6010b	
4,4'-DDE	50	5.0		ug/kg	EPA 8081A	
Benzene	2.6	2.5		ug/kg	EPA 8260B/5035	
Toluene	2.5	2.5		ug/kg	EPA 8260B/5035	

Sample ID: SB5-5

Laboratory ID: T211590-09

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	54	1.0		mg/kg	EPA 6010b	
Chromium	10	2.0		mg/kg	EPA 6010b	
Cobalt	6.2	2.0		mg/kg	EPA 6010b	
Copper	7.9	1.0		mg/kg	EPA 6010b	
Lead	3.4	3.0		mg/kg	EPA 6010b	
Nickel	6.9	2.0		mg/kg	EPA 6010b	
Vanadium	25	5.0		mg/kg	EPA 6010b	
Zinc	34	1.0		mg/kg	EPA 6010b	
4,4'-DDE	72	5.0		ug/kg	EPA 8081A	

Sample ID: SB6-1

Laboratory ID: T211590-10

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	21	10		mg/kg	EPA 8015B	
Barium	60	1.0		mg/kg	EPA 6010b	
Chromium	14	2.0		mg/kg	EPA 6010b	
Cobalt	7.1	2.0		mg/kg	EPA 6010b	
Copper	15	1.0		mg/kg	EPA 6010b	
Lead	5.3	3.0		mg/kg	EPA 6010b	
Nickel	8.8	2.0		mg/kg	EPA 6010b	

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Jeff Lee, Project Manager



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24411 Ridge Route Drive, Suite 130
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Sample ID: SB6-1

Laboratory ID: T211590-10

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Vanadium	29	5.0	mg/kg	EPA 6010b	
Zinc	44	1.0	mg/kg	EPA 6010b	
4,4'-DDE	130	25	ug/kg	EPA 8081A	
Toxaphene	450	100	ug/kg	EPA 8081A	

Sample ID: SB6-5

Laboratory ID: T211590-11

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	52	0.91	mg/kg	EPA 6010b	
Chromium	7.7	1.8	mg/kg	EPA 6010b	
Cobalt	5.5	1.8	mg/kg	EPA 6010b	
Copper	5.2	0.91	mg/kg	EPA 6010b	
Nickel	5.3	1.8	mg/kg	EPA 6010b	
Vanadium	21	4.5	mg/kg	EPA 6010b	
Zinc	27	0.91	mg/kg	EPA 6010b	

Sample ID: SB7-1

Laboratory ID: T211590-12

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C29-C40 (MORO)	19	10	mg/kg	EPA 8015B	
Barium	17	1.0	mg/kg	EPA 6010b	
Chromium	4.2	2.0	mg/kg	EPA 6010b	
Copper	2.2	1.0	mg/kg	EPA 6010b	
Nickel	2.8	2.0	mg/kg	EPA 6010b	
Vanadium	9.1	5.0	mg/kg	EPA 6010b	
Zinc	9.9	1.0	mg/kg	EPA 6010b	
4,4'-DDE	8.4	5.0	ug/kg	EPA 8081A	

Sample ID: SB7-5

Laboratory ID: T211590-13

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	25	1.0	mg/kg	EPA 6010b	
Chromium	6.0	2.0	mg/kg	EPA 6010b	
Cobalt	3.9	2.0	mg/kg	EPA 6010b	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Sample ID: SB7-5

Laboratory ID: T211590-13

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Copper	3.1	1.0	mg/kg	EPA 6010b	
Nickel	4.0	2.0	mg/kg	EPA 6010b	
Vanadium	18	5.0	mg/kg	EPA 6010b	
Zinc	20	1.0	mg/kg	EPA 6010b	

Sample ID: SB8-1

Laboratory ID: T211590-14

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	60	1.0	mg/kg	EPA 6010b	
Chromium	12	2.0	mg/kg	EPA 6010b	
Cobalt	7.2	2.0	mg/kg	EPA 6010b	
Copper	9.3	1.0	mg/kg	EPA 6010b	
Lead	3.5	3.0	mg/kg	EPA 6010b	
Nickel	8.3	2.0	mg/kg	EPA 6010b	
Vanadium	28	5.0	mg/kg	EPA 6010b	
Zinc	39	1.0	mg/kg	EPA 6010b	

Sample ID: SB8-5

Laboratory ID: T211590-15

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	49	1.0	mg/kg	EPA 6010b	
Chromium	11	2.0	mg/kg	EPA 6010b	
Cobalt	6.1	2.0	mg/kg	EPA 6010b	
Copper	8.2	1.0	mg/kg	EPA 6010b	
Nickel	7.3	2.0	mg/kg	EPA 6010b	
Vanadium	26	5.0	mg/kg	EPA 6010b	
Zinc	31	1.0	mg/kg	EPA 6010b	

Sample ID: SB10-1

Laboratory ID: T211590-16

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	56	1.0	mg/kg	EPA 6010b	
Chromium	13	2.0	mg/kg	EPA 6010b	
Cobalt	7.1	2.0	mg/kg	EPA 6010b	

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Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
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Sample ID: SB10-1

Laboratory ID: T211590-16

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Copper	8.9	1.0	mg/kg	EPA 6010b	
Lead	3.3	3.0	mg/kg	EPA 6010b	
Nickel	8.7	2.0	mg/kg	EPA 6010b	
Vanadium	26	5.0	mg/kg	EPA 6010b	
Zinc	44	1.0	mg/kg	EPA 6010b	
Benzene	5.6	2.2	ug/kg	EPA 8260B/5035	
Toluene	3.8	2.2	ug/kg	EPA 8260B/5035	

Sample ID: SB10-5

Laboratory ID: T211590-17

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	48	1.0	mg/kg	EPA 6010b	
Chromium	12	2.0	mg/kg	EPA 6010b	
Cobalt	7.0	2.0	mg/kg	EPA 6010b	
Copper	8.0	1.0	mg/kg	EPA 6010b	
Nickel	8.1	2.0	mg/kg	EPA 6010b	
Vanadium	25	5.0	mg/kg	EPA 6010b	
Zinc	36	1.0	mg/kg	EPA 6010b	

Sample ID: GW-10

Laboratory ID: T211590-18

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	0.27	0.050	mg/l	EPA 8015B	
Barium	180	50	ug/l	EPA 6010b	
Vanadium	62	50	ug/l	EPA 6010b	
Zinc	600	50	ug/l	EPA 6010b	

Sample ID: SB2-1

Laboratory ID: T211590-19

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C29-C40 (MORO)	24	10	mg/kg	EPA 8015B	
Barium	65	1.0	mg/kg	EPA 6010b	
Chromium	15	2.0	mg/kg	EPA 6010b	
Cobalt	7.0	2.0	mg/kg	EPA 6010b	

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Project Manager: Derrick Willis

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Sample ID: SB2-1

Laboratory ID: T211590-19

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Copper	20	1.0		mg/kg	EPA 6010b	
Lead	9.1	3.0		mg/kg	EPA 6010b	
Nickel	8.7	2.0		mg/kg	EPA 6010b	
Vanadium	30	5.0		mg/kg	EPA 6010b	
Zinc	49	1.0		mg/kg	EPA 6010b	
4,4'-DDE	530	50		ug/kg	EPA 8081A	
4,4'-DDT	43	5.0		ug/kg	EPA 8081A	
Toxaphene	1300	200		ug/kg	EPA 8081A	

Sample ID: SB2-5

Laboratory ID: T211590-20

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	19	10		mg/kg	EPA 8015B	
Barium	50	1.0		mg/kg	EPA 6010b	
Chromium	9.3	2.0		mg/kg	EPA 6010b	
Cobalt	5.9	2.0		mg/kg	EPA 6010b	
Copper	7.0	1.0		mg/kg	EPA 6010b	
Nickel	6.7	2.0		mg/kg	EPA 6010b	
Vanadium	23	5.0		mg/kg	EPA 6010b	
Zinc	33	1.0		mg/kg	EPA 6010b	

Sample ID: SB11-1

Laboratory ID: T211590-21

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	58	1.0		mg/kg	EPA 6010b	
Chromium	10	2.0		mg/kg	EPA 6010b	
Cobalt	6.3	2.0		mg/kg	EPA 6010b	
Copper	8.9	1.0		mg/kg	EPA 6010b	
Nickel	7.2	2.0		mg/kg	EPA 6010b	
Vanadium	27	5.0		mg/kg	EPA 6010b	
Zinc	31	1.0		mg/kg	EPA 6010b	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

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Sample ID: SB11-5

Laboratory ID: T211590-22

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	47	0.91		mg/kg	EPA 6010b	
Chromium	12	1.8		mg/kg	EPA 6010b	
Cobalt	6.6	1.8		mg/kg	EPA 6010b	
Copper	7.3	0.91		mg/kg	EPA 6010b	
Nickel	7.6	1.8		mg/kg	EPA 6010b	
Vanadium	26	4.5		mg/kg	EPA 6010b	
Zinc	36	0.91		mg/kg	EPA 6010b	

Sample ID: SB12-1

Laboratory ID: T211590-23

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	280	10		mg/kg	EPA 8015B	
Barium	42	0.91		mg/kg	EPA 6010b	
Chromium	7.9	1.8		mg/kg	EPA 6010b	
Cobalt	3.8	1.8		mg/kg	EPA 6010b	
Copper	9.9	0.91		mg/kg	EPA 6010b	
Lead	7.2	2.7		mg/kg	EPA 6010b	
Nickel	5.5	1.8		mg/kg	EPA 6010b	
Vanadium	18	4.5		mg/kg	EPA 6010b	
Zinc	34	0.91		mg/kg	EPA 6010b	
4,4'-DDE	160	50		ug/kg	EPA 8081A	R-07

Sample ID: SB12-5

Laboratory ID: T211590-24

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	48	1.0		mg/kg	EPA 6010b	
Chromium	10	2.0		mg/kg	EPA 6010b	
Cobalt	6.0	2.0		mg/kg	EPA 6010b	
Copper	6.3	1.0		mg/kg	EPA 6010b	
Nickel	6.6	2.0		mg/kg	EPA 6010b	
Vanadium	24	5.0		mg/kg	EPA 6010b	
Zinc	31	1.0		mg/kg	EPA 6010b	

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Reported:
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Sample ID: SB13-1

Laboratory ID: T211590-25

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	60	1.0		mg/kg	EPA 6010b	
Chromium	14	2.0		mg/kg	EPA 6010b	
Cobalt	7.0	2.0		mg/kg	EPA 6010b	
Copper	8.9	1.0		mg/kg	EPA 6010b	
Lead	4.3	3.0		mg/kg	EPA 6010b	
Nickel	8.0	2.0		mg/kg	EPA 6010b	
Vanadium	28	5.0		mg/kg	EPA 6010b	
Zinc	43	1.0		mg/kg	EPA 6010b	
4,4'-DDE	47	5.0		ug/kg	EPA 8081A	
4,4'-DDT	6.0	5.0		ug/kg	EPA 8081A	

Sample ID: SB13-5

Laboratory ID: T211590-26

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	60	1.0		mg/kg	EPA 6010b	
Chromium	11	2.0		mg/kg	EPA 6010b	
Cobalt	6.5	2.0		mg/kg	EPA 6010b	
Copper	8.7	1.0		mg/kg	EPA 6010b	
Lead	3.1	3.0		mg/kg	EPA 6010b	
Nickel	7.4	2.0		mg/kg	EPA 6010b	
Vanadium	26	5.0		mg/kg	EPA 6010b	
Zinc	36	1.0		mg/kg	EPA 6010b	
4,4'-DDE	21	5.0		ug/kg	EPA 8081A	
Chloromethane	3.4	2.5		ug/kg	EPA 8260B/5035	
Benzene	110	2.5		ug/kg	EPA 8260B/5035	
Toluene	78	2.5		ug/kg	EPA 8260B/5035	
Ethylbenzene	10	2.5		ug/kg	EPA 8260B/5035	
m,p-Xylene	10	5.0		ug/kg	EPA 8260B/5035	
o-Xylene	3.3	2.5		ug/kg	EPA 8260B/5035	

Sample ID: SB14-1

Laboratory ID: T211590-27

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	63	1.0		mg/kg	EPA 6010b	
Chromium	13	2.0		mg/kg	EPA 6010b	

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Project Manager: Derrick Willis

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Sample ID: SB14-1

Laboratory ID: T211590-27

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Cobalt	6.9	2.0		mg/kg	EPA 6010b	
Copper	16	1.0		mg/kg	EPA 6010b	
Lead	6.2	3.0		mg/kg	EPA 6010b	
Nickel	8.5	2.0		mg/kg	EPA 6010b	
Vanadium	28	5.0		mg/kg	EPA 6010b	
Zinc	44	1.0		mg/kg	EPA 6010b	
4,4'-DDE	87	5.0		ug/kg	EPA 8081A	
4,4'-DDT	13	5.0		ug/kg	EPA 8081A	
Toxaphene	690	200		ug/kg	EPA 8081A	
Benzene	11	2.5		ug/kg	EPA 8260B/5035	
Toluene	8.7	2.5		ug/kg	EPA 8260B/5035	

Sample ID: SB14-5

Laboratory ID: T211590-28

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	54	1.0		mg/kg	EPA 6010b	
Chromium	9.9	2.0		mg/kg	EPA 6010b	
Cobalt	5.7	2.0		mg/kg	EPA 6010b	
Copper	6.7	1.0		mg/kg	EPA 6010b	
Nickel	6.8	2.0		mg/kg	EPA 6010b	
Vanadium	25	5.0		mg/kg	EPA 6010b	
Zinc	29	1.0		mg/kg	EPA 6010b	

Sample ID: SB15-1

Laboratory ID: T211590-29

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	58	1.0		mg/kg	EPA 6010b	
Chromium	11	2.0		mg/kg	EPA 6010b	
Cobalt	6.7	2.0		mg/kg	EPA 6010b	
Copper	9.7	1.0		mg/kg	EPA 6010b	
Lead	3.6	3.0		mg/kg	EPA 6010b	
Nickel	7.4	2.0		mg/kg	EPA 6010b	
Vanadium	28	5.0		mg/kg	EPA 6010b	
Zinc	40	1.0		mg/kg	EPA 6010b	
4,4'-DDE	11	5.0		ug/kg	EPA 8081A	

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Sample ID: SB15-5

Laboratory ID: T211590-30

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	59	1.0		mg/kg	EPA 6010b	
Chromium	7.5	2.0		mg/kg	EPA 6010b	
Cobalt	4.9	2.0		mg/kg	EPA 6010b	
Copper	4.5	1.0		mg/kg	EPA 6010b	
Nickel	5.4	2.0		mg/kg	EPA 6010b	
Vanadium	22	5.0		mg/kg	EPA 6010b	
Zinc	23	1.0		mg/kg	EPA 6010b	

Sample ID: SB16-1

Laboratory ID: T211590-31

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	51	1.0		mg/kg	EPA 6010b	
Chromium	9.7	2.0		mg/kg	EPA 6010b	
Cobalt	6.2	2.0		mg/kg	EPA 6010b	
Copper	6.7	1.0		mg/kg	EPA 6010b	
Nickel	6.5	2.0		mg/kg	EPA 6010b	
Vanadium	26	5.0		mg/kg	EPA 6010b	
Zinc	33	1.0		mg/kg	EPA 6010b	

Sample ID: SB16-5

Laboratory ID: T211590-32

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	12	10		mg/kg	EPA 8015B	
Barium	56	1.0		mg/kg	EPA 6010b	
Chromium	13	2.0		mg/kg	EPA 6010b	
Cobalt	6.9	2.0		mg/kg	EPA 6010b	
Copper	13	1.0		mg/kg	EPA 6010b	
Lead	5.7	3.0		mg/kg	EPA 6010b	
Nickel	8.6	2.0		mg/kg	EPA 6010b	
Vanadium	28	5.0		mg/kg	EPA 6010b	
Zinc	40	1.0		mg/kg	EPA 6010b	
4,4'-DDE	99	5.0		ug/kg	EPA 8081A	
4,4'-DDD	62	5.0		ug/kg	EPA 8081A	
Benzene	7.9	2.5		ug/kg	EPA 8260B/5035	
Toluene	4.6	2.5		ug/kg	EPA 8260B/5035	

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Sample ID: GW-2

Laboratory ID: T211590-33

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C6-C12 (GRO)	0.10	0.050	mg/l	EPA 8015B	
C13-C28 (DRO)	0.54	0.050	mg/l	EPA 8015B	

Sample ID: SB9-1

Laboratory ID: T211590-34

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	55	1.0	mg/kg	EPA 6010b	
Chromium	12	2.0	mg/kg	EPA 6010b	
Cobalt	6.4	2.0	mg/kg	EPA 6010b	
Copper	10	1.0	mg/kg	EPA 6010b	
Lead	18	3.0	mg/kg	EPA 6010b	
Nickel	7.6	2.0	mg/kg	EPA 6010b	
Vanadium	25	5.0	mg/kg	EPA 6010b	
Zinc	52	1.0	mg/kg	EPA 6010b	
4,4'-DDE	8.8	5.0	ug/kg	EPA 8081A	
Benzene	3.5	2.5	ug/kg	EPA 8260B/5035	

Sample ID: SB9-5

Laboratory ID: T211590-35

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	64	1.0	mg/kg	EPA 6010b	
Chromium	12	2.0	mg/kg	EPA 6010b	
Cobalt	6.9	2.0	mg/kg	EPA 6010b	
Copper	9.6	1.0	mg/kg	EPA 6010b	
Lead	3.0	3.0	mg/kg	EPA 6010b	
Nickel	8.0	2.0	mg/kg	EPA 6010b	
Vanadium	27	5.0	mg/kg	EPA 6010b	
Zinc	38	1.0	mg/kg	EPA 6010b	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB1-1
T211590-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	540	ug/kg	1	1051244	05/12/21	05/18/21	EPA 8015B/5035	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		42.2 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/15/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		109 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	59	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	10	2.0	"	"	"	"	"	"	
Cobalt	5.9	2.0	"	"	"	"	"	"	
Copper	8.5	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.7	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	25	5.0	"	"	"	"	"	"	
Zinc	32	1.0	"	"	"	"	"	"	

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05/20/21 17:17

SB1-1

T211590-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051233	05/12/21	05/13/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

84.5 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

127 % 35-140

" " " "

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB1-1

T211590-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	2.9	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
Bromochloromethane	ND	2.9	"	"	"	"	"	"	
Bromodichloromethane	ND	2.9	"	"	"	"	"	"	
Bromoform	ND	2.9	"	"	"	"	"	"	
Bromomethane	ND	2.9	"	"	"	"	"	"	
n-Butylbenzene	ND	2.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.9	"	"	"	"	"	"	
Chlorobenzene	ND	2.9	"	"	"	"	"	"	
Chloroethane	ND	2.9	"	"	"	"	"	"	
Chloroform	ND	2.9	"	"	"	"	"	"	
Chloromethane	ND	2.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.9	"	"	"	"	"	"	
Dibromochloromethane	ND	2.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.9	"	"	"	"	"	"	
Dibromomethane	ND	2.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.9	"	"	"	"	"	"	

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Reported:
05/20/21 17:17

SB1-1

T211590-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	2.9	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	2.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.9	"	"	"	"	"	"	
Isopropylbenzene	ND	2.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.9	"	"	"	"	"	"	
Methylene chloride	ND	11	"	"	"	"	"	"	
Naphthalene	ND	2.9	"	"	"	"	"	"	
n-Propylbenzene	ND	2.9	"	"	"	"	"	"	
Styrene	ND	2.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.9	"	"	"	"	"	"	
Tetrachloroethene	ND	2.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.9	"	"	"	"	"	"	
Trichloroethene	ND	2.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.9	"	"	"	"	"	"	
Vinyl chloride	ND	2.9	"	"	"	"	"	"	
Benzene	19	2.9	"	"	"	"	"	"	
Toluene	18	2.9	"	"	"	"	"	"	
Ethylbenzene	3.0	2.9	"	"	"	"	"	"	
m,p-Xylene	ND	5.7	"	"	"	"	"	"	
o-Xylene	ND	2.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		104 %		76.1-127	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %		85.9-114	"	"	"	"	
Surrogate: Dibromofluoromethane		110 %		77.8-142	"	"	"	"	

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Project: Holland FV
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Project Manager: Derrick Willis

Reported:
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SB1-1

T211590-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

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SB1-5

T211590-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	79000	ug/kg	50	1051244	05/12/21	05/19/21	EPA 8015B/5035	R-07
Surrogate: <i>a,a,a-Trifluorotoluene</i>		112 %	65-135		"	"	"	"	R-07

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/15/21	EPA 8015B	
C29-C40 (MORO)	12	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		114 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	33	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	7.8	2.0	"	"	"	"	"	"	
Cobalt	4.8	2.0	"	"	"	"	"	"	
Copper	5.1	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	5.0	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	23	5.0	"	"	"	"	"	"	
Zinc	23	1.0	"	"	"	"	"	"	

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Project: Holland FV
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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB1-5

T211590-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051233	05/12/21	05/13/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

78.1 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

113 % 35-140

" " " "

SunStar Laboratories, Inc.

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB1-5

T211590-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

Bromobenzene	ND	3.3	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
Bromochloromethane	ND	3.3	"	"	"	"	"	"	
Bromodichloromethane	ND	3.3	"	"	"	"	"	"	
Bromoform	ND	3.3	"	"	"	"	"	"	
Bromomethane	ND	3.3	"	"	"	"	"	"	
n-Butylbenzene	ND	3.3	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.3	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.3	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.3	"	"	"	"	"	"	
Chlorobenzene	ND	3.3	"	"	"	"	"	"	
Chloroethane	ND	3.3	"	"	"	"	"	"	
Chloroform	ND	3.3	"	"	"	"	"	"	
Chloromethane	ND	3.3	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.3	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.3	"	"	"	"	"	"	
Dibromochloromethane	ND	3.3	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	3.3	"	"	"	"	"	"	
Dibromomethane	ND	3.3	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.3	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.3	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.3	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.3	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.3	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.3	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.3	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.3	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.3	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.3	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.3	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB1-5
T211590-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

1,1-Dichloropropene	ND	3.3	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	3.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.3	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.3	"	"	"	"	"	"	
Isopropylbenzene	ND	3.3	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.3	"	"	"	"	"	"	
Methylene chloride	ND	13	"	"	"	"	"	"	
Naphthalene	ND	3.3	"	"	"	"	"	"	
n-Propylbenzene	ND	3.3	"	"	"	"	"	"	
Styrene	ND	3.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.3	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.3	"	"	"	"	"	"	
Tetrachloroethene	ND	3.3	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.3	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.3	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.3	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.3	"	"	"	"	"	"	
Trichloroethene	ND	3.3	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.3	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.3	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.3	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.3	"	"	"	"	"	"	
Vinyl chloride	ND	3.3	"	"	"	"	"	"	
Benzene	ND	3.3	"	"	"	"	"	"	
Toluene	ND	3.3	"	"	"	"	"	"	
Ethylbenzene	ND	3.3	"	"	"	"	"	"	
m,p-Xylene	ND	6.7	"	"	"	"	"	"	
o-Xylene	ND	3.3	"	"	"	"	"	"	
Surrogate: Toluene-d8		99.8 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.2 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		130 %	77.8-142		"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB1-5

T211590-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB3-1

T211590-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	710	ug/kg	1	1051244	05/12/21	05/18/21	EPA 8015B/5035	
Surrogate: a,a,a-Trifluorotoluene		22.1 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/15/21	EPA 8015B	
C29-C40 (MORO)	14	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		115 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	05/13/21	"	
Arsenic	ND	5.0	"	"	"	"	05/13/21	"	
Barium	58	1.0	"	"	"	"	05/13/21	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	05/13/21	"	
Chromium	12	2.0	"	"	"	"	05/13/21	"	
Cobalt	6.8	2.0	"	"	"	"	05/13/21	"	
Copper	12	1.0	"	"	"	"	05/13/21	"	
Lead	9.5	3.0	"	"	"	"	05/13/21	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.0	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	05/13/21	"	
Vanadium	28	5.0	"	"	"	"	"	"	
Zinc	41	1.0	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB3-1

T211590-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051233	05/12/21	05/13/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	110	25	"	5	"	"	"	"	
Dieldrin	ND	5.0	"	1	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	8.4	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	220	20	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		77.0 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		112 %	35-140		"	"	"	"	

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB3-1

T211590-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

Bromobenzene	ND	3.0	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035
Bromochloromethane	ND	3.0	"	"	"	"	"	"
Bromodichloromethane	ND	3.0	"	"	"	"	"	"
Bromoform	ND	3.0	"	"	"	"	"	"
Bromomethane	ND	3.0	"	"	"	"	"	"
n-Butylbenzene	ND	3.0	"	"	"	"	"	"
sec-Butylbenzene	ND	3.0	"	"	"	"	"	"
tert-Butylbenzene	ND	3.0	"	"	"	"	"	"
Carbon tetrachloride	ND	3.0	"	"	"	"	"	"
Chlorobenzene	ND	3.0	"	"	"	"	"	"
Chloroethane	ND	3.0	"	"	"	"	"	"
Chloroform	ND	3.0	"	"	"	"	"	"
Chloromethane	ND	3.0	"	"	"	"	"	"
2-Chlorotoluene	ND	3.0	"	"	"	"	"	"
4-Chlorotoluene	ND	3.0	"	"	"	"	"	"
Dibromochloromethane	ND	3.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	6.1	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	3.0	"	"	"	"	"	"
Dibromomethane	ND	3.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	3.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	3.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	3.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	3.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	3.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	3.0	"	"	"	"	"	"
1,1-Dichloroethene	ND	3.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	3.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	3.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	3.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	3.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	3.0	"	"	"	"	"	"

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB3-1

T211590-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

1,1-Dichloropropene	ND	3.0	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	3.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.0	"	"	"	"	"	"	
Isopropylbenzene	ND	3.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.0	"	"	"	"	"	"	
Methylene chloride	ND	12	"	"	"	"	"	"	
Naphthalene	ND	3.0	"	"	"	"	"	"	
n-Propylbenzene	ND	3.0	"	"	"	"	"	"	
Styrene	ND	3.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	3.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.0	"	"	"	"	"	"	
Trichloroethene	ND	3.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.0	"	"	"	"	"	"	
Vinyl chloride	ND	3.0	"	"	"	"	"	"	
Benzene	ND	3.0	"	"	"	"	"	"	
Toluene	ND	3.0	"	"	"	"	"	"	
Ethylbenzene	ND	3.0	"	"	"	"	"	"	
m,p-Xylene	ND	6.1	"	"	"	"	"	"	
o-Xylene	ND	3.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		103 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.2 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		137 %	77.8-142		"	"	"	"	

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SB3-1

T211590-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB3-5

T211590-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	530	ug/kg	1	1051244	05/12/21	05/17/21	EPA 8015B/5035	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		4.07 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/15/21	EPA 8015B	
C29-C40 (MORO)	12	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		121 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	51	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	05/13/21	"	
Cadmium	ND	2.0	"	"	"	"	05/13/21	"	
Chromium	9.6	2.0	"	"	"	"	"	"	
Cobalt	6.1	2.0	"	"	"	"	"	"	
Copper	5.9	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.5	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	27	5.0	"	"	"	"	"	"	
Zinc	33	1.0	"	"	"	"	"	"	

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SB3-5

T211590-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051233	05/12/21	05/13/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

77.5 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

115 % 35-140

" " " "

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05/20/21 17:17

SB3-5

T211590-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	2.5	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
Bromochloromethane	ND	2.5	"	"	"	"	"	"	
Bromodichloromethane	ND	2.5	"	"	"	"	"	"	
Bromoform	ND	2.5	"	"	"	"	"	"	
Bromomethane	ND	2.5	"	"	"	"	"	"	
n-Butylbenzene	ND	2.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"	
Chlorobenzene	ND	2.5	"	"	"	"	"	"	
Chloroethane	ND	2.5	"	"	"	"	"	"	
Chloroform	ND	2.5	"	"	"	"	"	"	
Chloromethane	ND	2.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
Dibromochloromethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Dibromomethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	

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SB3-5

T211590-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	2.5	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.5	"	"	"	"	"	"	
Isopropylbenzene	ND	2.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.5	"	"	"	"	"	"	
Methylene chloride	ND	10	"	"	"	"	"	"	
Naphthalene	ND	2.5	"	"	"	"	"	"	
n-Propylbenzene	ND	2.5	"	"	"	"	"	"	
Styrene	ND	2.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
Tetrachloroethene	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"	
Trichloroethene	ND	2.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
Vinyl chloride	ND	2.5	"	"	"	"	"	"	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	2.7	2.5	"	"	"	"	"	"	
m,p-Xylene	13	5.0	"	"	"	"	"	"	
o-Xylene	3.5	2.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		103 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		113 %	77.8-142		"	"	"	"	

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB3-5

T211590-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Jeff Lee, Project Manager

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Northgate Environmental Management -- Laguna Hills
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Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

GW-3

T211590-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	0.050	mg/l	1	1051230	05/12/21	05/14/21	EPA 8015B	
C13-C28 (DRO)	1.1	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		115 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	50	ug/l	1	1051339	05/13/21	05/20/21	EPA 6010b	
Silver	57	50	"	"	"	"	"	"	
Arsenic	ND	50	"	"	"	"	"	"	
Barium	1100	50	"	"	"	"	"	"	
Beryllium	ND	50	"	"	"	"	"	"	
Cadmium	ND	50	"	"	"	"	"	"	
Chromium	ND	50	"	"	"	"	"	"	
Cobalt	ND	50	"	"	"	"	"	"	
Copper	50	50	"	"	"	"	"	"	
Lead	ND	50	"	"	"	"	"	"	
Molybdenum	ND	50	"	"	"	"	"	"	
Nickel	67	50	"	"	"	"	"	"	
Selenium	ND	50	"	"	"	"	"	"	
Thallium	ND	50	"	"	"	"	"	"	
Vanadium	100	50	"	"	"	"	"	"	
Zinc	200	50	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.50	ug/l	1	1051341	05/13/21	05/17/21	EPA 7470A Water	
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Reported:
05/20/21 17:17

GW-3

T211590-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	1051232	05/12/21	05/14/21	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	4.1	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	2.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

GW-3

T211590-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	1051232	05/12/21	05/14/21	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	0.79	0.50	"	"	"	"	"	"	
Toluene	0.63	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	0.56	0.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	76.7-116		"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	49.2-135		"	"	"	"	
Surrogate: Toluene-d8		101 %	84.7-108		"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB4-3

T211590-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	710	ug/kg	1	1051244	05/12/21	05/18/21	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		2.76 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/15/21	EPA 8015B	
C29-C40 (MORO)	17	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		111 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	2.1	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	49	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	12	2.0	"	"	"	"	"	"	
Cobalt	3.6	2.0	"	"	"	"	"	"	
Copper	8.5	1.0	"	"	"	"	"	"	
Lead	5.0	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	4.9	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	17	5.0	"	"	"	"	"	"	
Zinc	36	1.0	"	"	"	"	"	"	

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SB4-3

T211590-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	50	ug/kg	10	1051233	05/12/21	05/13/21	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	50	"	"	"	"	"	"	R-07
beta-BHC	ND	50	"	"	"	"	"	"	R-07
delta-BHC	ND	50	"	"	"	"	"	"	R-07
Heptachlor	ND	50	"	"	"	"	"	"	R-07
Aldrin	ND	50	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	50	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	50	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	50	"	"	"	"	"	"	R-07
Endosulfan I	ND	50	"	"	"	"	"	"	R-07
4,4'-DDE	ND	50	"	"	"	"	"	"	R-07
Dieldrin	ND	50	"	"	"	"	"	"	R-07
Endrin	ND	50	"	"	"	"	"	"	R-07
4,4'-DDD	ND	50	"	"	"	"	"	"	R-07
Endosulfan II	ND	50	"	"	"	"	"	"	R-07
4,4'-DDT	ND	50	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	50	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	50	"	"	"	"	"	"	R-07
Methoxychlor	ND	50	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	200	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		71.1 %	35-140		"	"	"	"	R-07
Surrogate: Decachlorobiphenyl		109 %	35-140		"	"	"	"	R-07

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Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB4-3

T211590-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	3.1	ug/kg	1	1051240	05/12/21	05/18/21	EPA 8260B/5035	
Bromochloromethane	ND	3.1	"	"	"	"	"	"	
Bromodichloromethane	ND	3.1	"	"	"	"	"	"	
Bromoform	ND	3.1	"	"	"	"	"	"	
Bromomethane	ND	3.1	"	"	"	"	"	"	
n-Butylbenzene	ND	3.1	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.1	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.1	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.1	"	"	"	"	"	"	
Chlorobenzene	ND	3.1	"	"	"	"	"	"	
Chloroethane	ND	3.1	"	"	"	"	"	"	
Chloroform	ND	3.1	"	"	"	"	"	"	
Chloromethane	ND	3.1	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.1	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.1	"	"	"	"	"	"	
Dibromochloromethane	ND	3.1	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.3	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	3.1	"	"	"	"	"	"	
Dibromomethane	ND	3.1	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.1	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.1	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.1	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.1	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.1	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.1	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB4-3

T211590-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	3.1	ug/kg	1	1051240	05/12/21	05/18/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	3.1	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.1	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.1	"	"	"	"	"	"	
Isopropylbenzene	ND	3.1	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.1	"	"	"	"	"	"	
Methylene chloride	ND	13	"	"	"	"	"	"	
Naphthalene	ND	3.1	"	"	"	"	"	"	
n-Propylbenzene	ND	3.1	"	"	"	"	"	"	
Styrene	ND	3.1	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.1	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.1	"	"	"	"	"	"	
Tetrachloroethene	ND	3.1	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.1	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.1	"	"	"	"	"	"	
Trichloroethene	ND	3.1	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.1	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.1	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.1	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.1	"	"	"	"	"	"	
Vinyl chloride	ND	3.1	"	"	"	"	"	"	
Benzene	8.5	3.1	"	"	"	"	"	"	
Toluene	7.2	3.1	"	"	"	"	"	"	
Ethylbenzene	ND	3.1	"	"	"	"	"	"	
m,p-Xylene	ND	6.3	"	"	"	"	"	"	
o-Xylene	ND	3.1	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.9 %		76.1-127	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.0 %		85.9-114	"	"	"	"	
Surrogate: Dibromofluoromethane		100 %		77.8-142	"	"	"	"	

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB4-3

T211590-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

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Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB4-5

T211590-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	520	ug/kg	1	1051244	05/12/21	05/18/21	EPA 8015B/5035	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		25.0 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/15/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		118 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	2.7	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	ND	1.8	"	"	"	"	"	"	
Arsenic	ND	4.5	"	"	"	"	"	"	
Barium	53	0.91	"	"	"	"	"	"	
Beryllium	ND	0.91	"	"	"	"	"	"	
Cadmium	ND	1.8	"	"	"	"	"	"	
Chromium	8.9	1.8	"	"	"	"	"	"	
Cobalt	5.6	1.8	"	"	"	"	"	"	
Copper	7.9	0.91	"	"	"	"	"	"	
Lead	ND	2.7	"	"	"	"	"	"	
Molybdenum	ND	4.5	"	"	"	"	"	"	
Nickel	6.5	1.8	"	"	"	"	"	"	
Selenium	ND	4.5	"	"	"	"	"	"	
Thallium	ND	4.5	"	"	"	"	"	"	
Vanadium	23	4.5	"	"	"	"	"	"	
Zinc	30	0.91	"	"	"	"	"	"	

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Jeff Lee, Project Manager



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Northgate Environmental Management -- Laguna Hills
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB4-5

T211590-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051233	05/12/21	05/13/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

77.8 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

133 % 35-140

" " " "

SunStar Laboratories, Inc.

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB4-5

T211590-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	3.2	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
Bromochloromethane	ND	3.2	"	"	"	"	"	"	
Bromodichloromethane	ND	3.2	"	"	"	"	"	"	
Bromoform	ND	3.2	"	"	"	"	"	"	
Bromomethane	ND	3.2	"	"	"	"	"	"	
n-Butylbenzene	ND	3.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.2	"	"	"	"	"	"	
Chlorobenzene	ND	3.2	"	"	"	"	"	"	
Chloroethane	ND	3.2	"	"	"	"	"	"	
Chloroform	ND	3.2	"	"	"	"	"	"	
Chloromethane	ND	3.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.2	"	"	"	"	"	"	
Dibromochloromethane	ND	3.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.4	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	3.2	"	"	"	"	"	"	
Dibromomethane	ND	3.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.2	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.2	"	"	"	"	"	"	

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB4-5

T211590-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	3.2	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	3.2	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.2	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.2	"	"	"	"	"	"	
Isopropylbenzene	ND	3.2	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.2	"	"	"	"	"	"	
Methylene chloride	ND	13	"	"	"	"	"	"	
Naphthalene	ND	3.2	"	"	"	"	"	"	
n-Propylbenzene	ND	3.2	"	"	"	"	"	"	
Styrene	ND	3.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.2	"	"	"	"	"	"	
Tetrachloroethene	ND	3.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.2	"	"	"	"	"	"	
Trichloroethene	ND	3.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.2	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.2	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.2	"	"	"	"	"	"	
Vinyl chloride	ND	3.2	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Toluene	ND	3.2	"	"	"	"	"	"	
Ethylbenzene	ND	3.2	"	"	"	"	"	"	
m,p-Xylene	ND	6.4	"	"	"	"	"	"	
o-Xylene	ND	3.2	"	"	"	"	"	"	
Surrogate: Toluene-d8		104 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.3 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		110 %	77.8-142		"	"	"	"	

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Project Manager: Derrick Willis

Reported:
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SB4-5

T211590-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB5-1

T211590-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	24000	ug/kg	50	1051244	05/12/21	05/19/21	EPA 8015B/5035	R-07
Surrogate: <i>a,a,a-Trifluorotoluene</i>		129 %	65-135		"	"	"	"	R-07

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/15/21	EPA 8015B	
C29-C40 (MORO)	20	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		117 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	05/13/21	"	
Arsenic	ND	5.0	"	"	"	"	05/13/21	"	
Barium	54	1.0	"	"	"	"	05/13/21	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	05/13/21	"	
Chromium	9.8	2.0	"	"	"	"	05/13/21	"	
Cobalt	5.9	2.0	"	"	"	"	05/13/21	"	
Copper	11	1.0	"	"	"	"	05/13/21	"	
Lead	5.7	3.0	"	"	"	"	05/13/21	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.8	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	05/13/21	"	
Vanadium	23	5.0	"	"	"	"	"	"	
Zinc	36	1.0	"	"	"	"	"	"	

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Project Manager: Derrick Willis

Reported:
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SB5-1

T211590-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051233	05/12/21	05/13/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	50	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

82.0 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

124 % 35-140

" " " "

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Project Number: 2047.28.025
Project Manager: Derrick Willis

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05/20/21 17:17

SB5-1

T211590-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

Bromobenzene	ND	2.5	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035
Bromochloromethane	ND	2.5	"	"	"	"	"	"
Bromodichloromethane	ND	2.5	"	"	"	"	"	"
Bromoform	ND	2.5	"	"	"	"	"	"
Bromomethane	ND	2.5	"	"	"	"	"	"
n-Butylbenzene	ND	2.5	"	"	"	"	"	"
sec-Butylbenzene	ND	2.5	"	"	"	"	"	"
tert-Butylbenzene	ND	2.5	"	"	"	"	"	"
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"
Chlorobenzene	ND	2.5	"	"	"	"	"	"
Chloroethane	ND	2.5	"	"	"	"	"	"
Chloroform	ND	2.5	"	"	"	"	"	"
Chloromethane	ND	2.5	"	"	"	"	"	"
2-Chlorotoluene	ND	2.5	"	"	"	"	"	"
4-Chlorotoluene	ND	2.5	"	"	"	"	"	"
Dibromochloromethane	ND	2.5	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"
Dibromomethane	ND	2.5	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"
1,3-Dichloropropane	ND	2.5	"	"	"	"	"	"
2,2-Dichloropropane	ND	2.5	"	"	"	"	"	"

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Project Manager: Derrick Willis

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SB5-1

T211590-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

1,1-Dichloropropene	ND	2.5	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.5	"	"	"	"	"	"	
Isopropylbenzene	ND	2.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.5	"	"	"	"	"	"	
Methylene chloride	ND	10	"	"	"	"	"	"	
Naphthalene	ND	2.5	"	"	"	"	"	"	
n-Propylbenzene	ND	2.5	"	"	"	"	"	"	
Styrene	ND	2.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
Tetrachloroethene	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"	
Trichloroethene	ND	2.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
Vinyl chloride	ND	2.5	"	"	"	"	"	"	
Benzene	2.6	2.5	"	"	"	"	"	"	
Toluene	2.5	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	2.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		102 %		76.1-127	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.8 %		85.9-114	"	"	"	"	
Surrogate: Dibromofluoromethane		134 %		77.8-142	"	"	"	"	

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Project Number: 2047.28.025
Project Manager: Derrick Willis

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SB5-1

T211590-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB5-5

T211590-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	490	ug/kg	1	1051244	05/12/21	05/17/21	EPA 8015B/5035	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		34.1 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/15/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		122 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	54	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	05/13/21	"	
Cadmium	ND	2.0	"	"	"	"	05/13/21	"	
Chromium	10	2.0	"	"	"	"	"	"	
Cobalt	6.2	2.0	"	"	"	"	"	"	
Copper	7.9	1.0	"	"	"	"	"	"	
Lead	3.4	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.9	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	25	5.0	"	"	"	"	"	"	
Zinc	34	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB5-5

T211590-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051233	05/12/21	05/13/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	72	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

85.3 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

122 % 35-140

" " " "

SunStar Laboratories, Inc.

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB5-5

T211590-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

Bromobenzene	ND	2.5	ug/kg	1	1051240	05/12/21	05/18/21	EPA 8260B/5035
Bromochloromethane	ND	2.5	"	"	"	"	"	"
Bromodichloromethane	ND	2.5	"	"	"	"	"	"
Bromoform	ND	2.5	"	"	"	"	"	"
Bromomethane	ND	2.5	"	"	"	"	"	"
n-Butylbenzene	ND	2.5	"	"	"	"	"	"
sec-Butylbenzene	ND	2.5	"	"	"	"	"	"
tert-Butylbenzene	ND	2.5	"	"	"	"	"	"
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"
Chlorobenzene	ND	2.5	"	"	"	"	"	"
Chloroethane	ND	2.5	"	"	"	"	"	"
Chloroform	ND	2.5	"	"	"	"	"	"
Chloromethane	ND	2.5	"	"	"	"	"	"
2-Chlorotoluene	ND	2.5	"	"	"	"	"	"
4-Chlorotoluene	ND	2.5	"	"	"	"	"	"
Dibromochloromethane	ND	2.5	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"
Dibromomethane	ND	2.5	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"
1,3-Dichloropropane	ND	2.5	"	"	"	"	"	"
2,2-Dichloropropane	ND	2.5	"	"	"	"	"	"

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
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SB5-5

T211590-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

1,1-Dichloropropene	ND	2.5	ug/kg	1	1051240	05/12/21	05/18/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.5	"	"	"	"	"	"	
Isopropylbenzene	ND	2.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.5	"	"	"	"	"	"	
Methylene chloride	ND	10	"	"	"	"	"	"	
Naphthalene	ND	2.5	"	"	"	"	"	"	
n-Propylbenzene	ND	2.5	"	"	"	"	"	"	
Styrene	ND	2.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
Tetrachloroethene	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"	
Trichloroethene	ND	2.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
Vinyl chloride	ND	2.5	"	"	"	"	"	"	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	2.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		96.9 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.3 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		117 %	77.8-142		"	"	"	"	

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB5-5

T211590-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB6-1

T211590-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	37000	ug/kg	50	1051244	05/12/21	05/19/21	EPA 8015B/5035	R-07
Surrogate: a,a,a-Trifluorotoluene		104 %	65-135		"	"	"	"	R-07

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/15/21	EPA 8015B	
C29-C40 (MORO)	21	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		120 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	60	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	05/13/21	"	
Cadmium	ND	2.0	"	"	"	"	05/13/21	"	
Chromium	14	2.0	"	"	"	"	"	"	
Cobalt	7.1	2.0	"	"	"	"	"	"	
Copper	15	1.0	"	"	"	"	"	"	
Lead	5.3	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.8	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	29	5.0	"	"	"	"	"	"	
Zinc	44	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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SB6-1

T211590-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051233	05/12/21	05/13/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	130	25	"	5	"	"	"	"	
Dieldrin	ND	5.0	"	1	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	450	100	"	5	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		82.4 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		114 %		35-140	"	"	"	"	

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SB6-1

T211590-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

Bromobenzene	ND	3.6	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
Bromochloromethane	ND	3.6	"	"	"	"	"	"	
Bromodichloromethane	ND	3.6	"	"	"	"	"	"	
Bromoform	ND	3.6	"	"	"	"	"	"	
Bromomethane	ND	3.6	"	"	"	"	"	"	
n-Butylbenzene	ND	3.6	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.6	"	"	"	"	"	"	
Chlorobenzene	ND	3.6	"	"	"	"	"	"	
Chloroethane	ND	3.6	"	"	"	"	"	"	
Chloroform	ND	3.6	"	"	"	"	"	"	
Chloromethane	ND	3.6	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	3.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	7.2	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	3.6	"	"	"	"	"	"	
Dibromomethane	ND	3.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.6	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.6	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.6	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.6	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.6	"	"	"	"	"	"	

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SB6-1

T211590-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

1,1-Dichloropropene	ND	3.6	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	3.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.6	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.6	"	"	"	"	"	"	
Isopropylbenzene	ND	3.6	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.6	"	"	"	"	"	"	
Methylene chloride	ND	14	"	"	"	"	"	"	
Naphthalene	ND	3.6	"	"	"	"	"	"	
n-Propylbenzene	ND	3.6	"	"	"	"	"	"	
Styrene	ND	3.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.6	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.6	"	"	"	"	"	"	
Tetrachloroethene	ND	3.6	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.6	"	"	"	"	"	"	
Trichloroethene	ND	3.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.6	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	3.6	"	"	"	"	"	"	
Benzene	ND	3.6	"	"	"	"	"	"	
Toluene	ND	3.6	"	"	"	"	"	"	
Ethylbenzene	ND	3.6	"	"	"	"	"	"	
m,p-Xylene	ND	7.2	"	"	"	"	"	"	
o-Xylene	ND	3.6	"	"	"	"	"	"	
Surrogate: Toluene-d8		103 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.3 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		133 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



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Northgate Environmental Management -- Laguna Hills
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB6-1

T211590-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB6-5

T211590-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	36000	ug/kg	50	1051244	05/12/21	05/19/21	EPA 8015B/5035	R-07
Surrogate: <i>a,a,a-Trifluorotoluene</i>		128 %	65-135		"	"	"	"	R-07

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/15/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		123 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	2.7	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	ND	1.8	"	"	"	"	"	"	
Arsenic	ND	4.5	"	"	"	"	"	"	
Barium	52	0.91	"	"	"	"	"	"	
Beryllium	ND	0.91	"	"	"	"	"	"	
Cadmium	ND	1.8	"	"	"	"	"	"	
Chromium	7.7	1.8	"	"	"	"	"	"	
Cobalt	5.5	1.8	"	"	"	"	"	"	
Copper	5.2	0.91	"	"	"	"	"	"	
Lead	ND	2.7	"	"	"	"	"	"	
Molybdenum	ND	4.5	"	"	"	"	"	"	
Nickel	5.3	1.8	"	"	"	"	"	"	
Selenium	ND	4.5	"	"	"	"	"	"	
Thallium	ND	4.5	"	"	"	"	"	"	
Vanadium	21	4.5	"	"	"	"	"	"	
Zinc	27	0.91	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB6-5

T211590-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	50	ug/kg	10	1051233	05/12/21	05/13/21	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	50	"	"	"	"	"	"	R-07
beta-BHC	ND	50	"	"	"	"	"	"	R-07
delta-BHC	ND	50	"	"	"	"	"	"	R-07
Heptachlor	ND	50	"	"	"	"	"	"	R-07
Aldrin	ND	50	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	50	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	50	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	50	"	"	"	"	"	"	R-07
Endosulfan I	ND	50	"	"	"	"	"	"	R-07
4,4'-DDE	ND	50	"	"	"	"	"	"	R-07
Dieldrin	ND	50	"	"	"	"	"	"	R-07
Endrin	ND	50	"	"	"	"	"	"	R-07
4,4'-DDD	ND	50	"	"	"	"	"	"	R-07
Endosulfan II	ND	50	"	"	"	"	"	"	R-07
4,4'-DDT	ND	50	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	50	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	50	"	"	"	"	"	"	R-07
Methoxychlor	ND	50	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	200	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		83.3 %	35-140		"	"	"	"	R-07
Surrogate: Decachlorobiphenyl		122 %	35-140		"	"	"	"	R-07

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB6-5

T211590-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	2.8	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
Bromochloromethane	ND	2.8	"	"	"	"	"	"	
Bromodichloromethane	ND	2.8	"	"	"	"	"	"	
Bromoform	ND	2.8	"	"	"	"	"	"	
Bromomethane	ND	2.8	"	"	"	"	"	"	
n-Butylbenzene	ND	2.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.8	"	"	"	"	"	"	
Chlorobenzene	ND	2.8	"	"	"	"	"	"	
Chloroethane	ND	2.8	"	"	"	"	"	"	
Chloroform	ND	2.8	"	"	"	"	"	"	
Chloromethane	ND	2.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.8	"	"	"	"	"	"	
Dibromochloromethane	ND	2.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.8	"	"	"	"	"	"	
Dibromomethane	ND	2.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.8	"	"	"	"	"	"	

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB6-5

T211590-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	2.8	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	2.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.8	"	"	"	"	"	"	
Isopropylbenzene	ND	2.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.8	"	"	"	"	"	"	
Methylene chloride	ND	11	"	"	"	"	"	"	
Naphthalene	ND	2.8	"	"	"	"	"	"	
n-Propylbenzene	ND	2.8	"	"	"	"	"	"	
Styrene	ND	2.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.8	"	"	"	"	"	"	
Tetrachloroethene	ND	2.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.8	"	"	"	"	"	"	
Trichloroethene	ND	2.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.8	"	"	"	"	"	"	
Vinyl chloride	ND	2.8	"	"	"	"	"	"	
Benzene	ND	2.8	"	"	"	"	"	"	
Toluene	ND	2.8	"	"	"	"	"	"	
Ethylbenzene	ND	2.8	"	"	"	"	"	"	
m,p-Xylene	ND	5.7	"	"	"	"	"	"	
o-Xylene	ND	2.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		101 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		118 %	77.8-142		"	"	"	"	

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Project Manager: Derrick Willis

Reported:
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SB6-5

T211590-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB7-1

T211590-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	33000	ug/kg	50	1051244	05/12/21	05/19/21	EPA 8015B/5035	R-07
Surrogate: a,a,a-Trifluorotoluene		114 %	65-135		"	"	"	"	R-07

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/15/21	EPA 8015B	
C29-C40 (MORO)	19	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		119 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	17	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	4.2	2.0	"	"	"	"	"	"	
Cobalt	ND	2.0	"	"	"	"	"	"	
Copper	2.2	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	2.8	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	9.1	5.0	"	"	"	"	"	"	
Zinc	9.9	1.0	"	"	"	"	"	"	

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05/20/21 17:17

SB7-1

T211590-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051233	05/12/21	05/13/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	8.4	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

79.2 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

123 % 35-140

" " " "

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB7-1

T211590-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

Bromobenzene	ND	2.9	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035
Bromochloromethane	ND	2.9	"	"	"	"	"	"
Bromodichloromethane	ND	2.9	"	"	"	"	"	"
Bromoform	ND	2.9	"	"	"	"	"	"
Bromomethane	ND	2.9	"	"	"	"	"	"
n-Butylbenzene	ND	2.9	"	"	"	"	"	"
sec-Butylbenzene	ND	2.9	"	"	"	"	"	"
tert-Butylbenzene	ND	2.9	"	"	"	"	"	"
Carbon tetrachloride	ND	2.9	"	"	"	"	"	"
Chlorobenzene	ND	2.9	"	"	"	"	"	"
Chloroethane	ND	2.9	"	"	"	"	"	"
Chloroform	ND	2.9	"	"	"	"	"	"
Chloromethane	ND	2.9	"	"	"	"	"	"
2-Chlorotoluene	ND	2.9	"	"	"	"	"	"
4-Chlorotoluene	ND	2.9	"	"	"	"	"	"
Dibromochloromethane	ND	2.9	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.8	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	2.9	"	"	"	"	"	"
Dibromomethane	ND	2.9	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	2.9	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	2.9	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	2.9	"	"	"	"	"	"
Dichlorodifluoromethane	ND	2.9	"	"	"	"	"	"
1,1-Dichloroethane	ND	2.9	"	"	"	"	"	"
1,2-Dichloroethane	ND	2.9	"	"	"	"	"	"
1,1-Dichloroethene	ND	2.9	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	2.9	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	2.9	"	"	"	"	"	"
1,2-Dichloropropane	ND	2.9	"	"	"	"	"	"
1,3-Dichloropropane	ND	2.9	"	"	"	"	"	"
2,2-Dichloropropane	ND	2.9	"	"	"	"	"	"

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB7-1

T211590-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

1,1-Dichloropropene	ND	2.9	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	2.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.9	"	"	"	"	"	"	
Isopropylbenzene	ND	2.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.9	"	"	"	"	"	"	
Methylene chloride	ND	12	"	"	"	"	"	"	
Naphthalene	ND	2.9	"	"	"	"	"	"	
n-Propylbenzene	ND	2.9	"	"	"	"	"	"	
Styrene	ND	2.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.9	"	"	"	"	"	"	
Tetrachloroethene	ND	2.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.9	"	"	"	"	"	"	
Trichloroethene	ND	2.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.9	"	"	"	"	"	"	
Vinyl chloride	ND	2.9	"	"	"	"	"	"	
Benzene	ND	2.9	"	"	"	"	"	"	
Toluene	ND	2.9	"	"	"	"	"	"	
Ethylbenzene	ND	2.9	"	"	"	"	"	"	
m,p-Xylene	ND	5.8	"	"	"	"	"	"	
o-Xylene	ND	2.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		106 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.3 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		125 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB7-1

T211590-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB7-5

T211590-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	28000	ug/kg	50	1051244	05/12/21	05/19/21	EPA 8015B/5035	R-07
Surrogate: <i>a,a,a</i> -Trifluorotoluene		98.3 %	65-135		"	"	"	"	R-07

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		119 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	05/13/21	"	
Arsenic	ND	5.0	"	"	"	"	05/13/21	"	
Barium	25	1.0	"	"	"	"	05/13/21	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	05/13/21	"	
Chromium	6.0	2.0	"	"	"	"	05/13/21	"	
Cobalt	3.9	2.0	"	"	"	"	05/13/21	"	
Copper	3.1	1.0	"	"	"	"	05/13/21	"	
Lead	ND	3.0	"	"	"	"	05/13/21	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	4.0	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	18	5.0	"	"	"	"	05/13/21	"	
Zinc	20	1.0	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB7-5

T211590-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051233	05/12/21	05/13/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

82.6 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

111 % 35-140

" " " "

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB7-5

T211590-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	3.0	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
Bromochloromethane	ND	3.0	"	"	"	"	"	"	
Bromodichloromethane	ND	3.0	"	"	"	"	"	"	
Bromoform	ND	3.0	"	"	"	"	"	"	
Bromomethane	ND	3.0	"	"	"	"	"	"	
n-Butylbenzene	ND	3.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.0	"	"	"	"	"	"	
Chlorobenzene	ND	3.0	"	"	"	"	"	"	
Chloroethane	ND	3.0	"	"	"	"	"	"	
Chloroform	ND	3.0	"	"	"	"	"	"	
Chloromethane	ND	3.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.0	"	"	"	"	"	"	
Dibromochloromethane	ND	3.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	3.0	"	"	"	"	"	"	
Dibromomethane	ND	3.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.0	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB7-5

T211590-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	3.0	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	3.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.0	"	"	"	"	"	"	
Isopropylbenzene	ND	3.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.0	"	"	"	"	"	"	
Methylene chloride	ND	12	"	"	"	"	"	"	
Naphthalene	ND	3.0	"	"	"	"	"	"	
n-Propylbenzene	ND	3.0	"	"	"	"	"	"	
Styrene	ND	3.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	3.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.0	"	"	"	"	"	"	
Trichloroethene	ND	3.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.0	"	"	"	"	"	"	
Vinyl chloride	ND	3.0	"	"	"	"	"	"	
Benzene	ND	3.0	"	"	"	"	"	"	
Toluene	ND	3.0	"	"	"	"	"	"	
Ethylbenzene	ND	3.0	"	"	"	"	"	"	
m,p-Xylene	ND	6.0	"	"	"	"	"	"	
o-Xylene	ND	3.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		99.8 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.8 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		113 %	77.8-142		"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB7-5

T211590-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB8-1

T211590-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	470	ug/kg	1	1051244	05/12/21	05/19/21	EPA 8015B/5035	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		18.5 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		98.0 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	60	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	05/13/21	"	
Cadmium	ND	2.0	"	"	"	"	05/13/21	"	
Chromium	12	2.0	"	"	"	"	"	"	
Cobalt	7.2	2.0	"	"	"	"	"	"	
Copper	9.3	1.0	"	"	"	"	"	"	
Lead	3.5	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.3	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	28	5.0	"	"	"	"	"	"	
Zinc	39	1.0	"	"	"	"	"	"	

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05/20/21 17:17

SB8-1

T211590-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	50	ug/kg	10	1051233	05/12/21	05/13/21	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	50	"	"	"	"	"	"	R-07
beta-BHC	ND	50	"	"	"	"	"	"	R-07
delta-BHC	ND	50	"	"	"	"	"	"	R-07
Heptachlor	ND	50	"	"	"	"	"	"	R-07
Aldrin	ND	50	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	50	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	50	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	50	"	"	"	"	"	"	R-07
Endosulfan I	ND	50	"	"	"	"	"	"	R-07
4,4'-DDE	ND	50	"	"	"	"	"	"	R-07
Dieldrin	ND	50	"	"	"	"	"	"	R-07
Endrin	ND	50	"	"	"	"	"	"	R-07
4,4'-DDD	ND	50	"	"	"	"	"	"	R-07
Endosulfan II	ND	50	"	"	"	"	"	"	R-07
4,4'-DDT	ND	50	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	50	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	50	"	"	"	"	"	"	R-07
Methoxychlor	ND	50	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	200	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		84.9 %		35-140	"	"	"	"	R-07
Surrogate: Decachlorobiphenyl		117 %		35-140	"	"	"	"	R-07

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB8-1

T211590-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

Bromobenzene	ND	2.5	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
Bromochloromethane	ND	2.5	"	"	"	"	"	"	
Bromodichloromethane	ND	2.5	"	"	"	"	"	"	
Bromoform	ND	2.5	"	"	"	"	"	"	
Bromomethane	ND	2.5	"	"	"	"	"	"	
n-Butylbenzene	ND	2.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"	
Chlorobenzene	ND	2.5	"	"	"	"	"	"	
Chloroethane	ND	2.5	"	"	"	"	"	"	
Chloroform	ND	2.5	"	"	"	"	"	"	
Chloromethane	ND	2.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
Dibromochloromethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Dibromomethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



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Northgate Environmental Management -- Laguna Hills
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB8-1

T211590-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

1,1-Dichloropropene	ND	2.5	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.5	"	"	"	"	"	"	
Isopropylbenzene	ND	2.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.5	"	"	"	"	"	"	
Methylene chloride	ND	10	"	"	"	"	"	"	
Naphthalene	ND	2.5	"	"	"	"	"	"	
n-Propylbenzene	ND	2.5	"	"	"	"	"	"	
Styrene	ND	2.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
Tetrachloroethene	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"	
Trichloroethene	ND	2.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
Vinyl chloride	ND	2.5	"	"	"	"	"	"	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	2.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		101 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.2 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		148 %	77.8-142		"	"	"	"	

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB8-1

T211590-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB8-5

T211590-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	590	ug/kg	1	1051244	05/12/21	05/19/21	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		5.82 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		131 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	49	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	11	2.0	"	"	"	"	"	"	
Cobalt	6.1	2.0	"	"	"	"	"	"	
Copper	8.2	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.3	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	26	5.0	"	"	"	"	"	"	
Zinc	31	1.0	"	"	"	"	"	"	

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB8-5

T211590-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051233	05/12/21	05/13/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

82.9 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

130 % 35-140

" " " "

SunStar Laboratories, Inc.

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB8-5

T211590-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

Bromobenzene	ND	2.9	ug/kg	1	1051240	05/12/21	05/18/21	EPA 8260B/5035
Bromochloromethane	ND	2.9	"	"	"	"	"	"
Bromodichloromethane	ND	2.9	"	"	"	"	"	"
Bromoform	ND	2.9	"	"	"	"	"	"
Bromomethane	ND	2.9	"	"	"	"	"	"
n-Butylbenzene	ND	2.9	"	"	"	"	"	"
sec-Butylbenzene	ND	2.9	"	"	"	"	"	"
tert-Butylbenzene	ND	2.9	"	"	"	"	"	"
Carbon tetrachloride	ND	2.9	"	"	"	"	"	"
Chlorobenzene	ND	2.9	"	"	"	"	"	"
Chloroethane	ND	2.9	"	"	"	"	"	"
Chloroform	ND	2.9	"	"	"	"	"	"
Chloromethane	ND	2.9	"	"	"	"	"	"
2-Chlorotoluene	ND	2.9	"	"	"	"	"	"
4-Chlorotoluene	ND	2.9	"	"	"	"	"	"
Dibromochloromethane	ND	2.9	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.8	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	2.9	"	"	"	"	"	"
Dibromomethane	ND	2.9	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	2.9	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	2.9	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	2.9	"	"	"	"	"	"
Dichlorodifluoromethane	ND	2.9	"	"	"	"	"	"
1,1-Dichloroethane	ND	2.9	"	"	"	"	"	"
1,2-Dichloroethane	ND	2.9	"	"	"	"	"	"
1,1-Dichloroethene	ND	2.9	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	2.9	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	2.9	"	"	"	"	"	"
1,2-Dichloropropane	ND	2.9	"	"	"	"	"	"
1,3-Dichloropropane	ND	2.9	"	"	"	"	"	"
2,2-Dichloropropane	ND	2.9	"	"	"	"	"	"

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB8-5

T211590-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

1,1-Dichloropropene	ND	2.9	ug/kg	1	1051240	05/12/21	05/18/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	2.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.9	"	"	"	"	"	"	
Isopropylbenzene	ND	2.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.9	"	"	"	"	"	"	
Methylene chloride	ND	12	"	"	"	"	"	"	
Naphthalene	ND	2.9	"	"	"	"	"	"	
n-Propylbenzene	ND	2.9	"	"	"	"	"	"	
Styrene	ND	2.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.9	"	"	"	"	"	"	
Tetrachloroethene	ND	2.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.9	"	"	"	"	"	"	
Trichloroethene	ND	2.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.9	"	"	"	"	"	"	
Vinyl chloride	ND	2.9	"	"	"	"	"	"	
Benzene	ND	2.9	"	"	"	"	"	"	
Toluene	ND	2.9	"	"	"	"	"	"	
Ethylbenzene	ND	2.9	"	"	"	"	"	"	
m,p-Xylene	ND	5.8	"	"	"	"	"	"	
o-Xylene	ND	2.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.0 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.4 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		124 %	77.8-142		"	"	"	"	

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Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB8-5

T211590-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Holland FV
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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB10-1

T211590-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	440	ug/kg	1	1051244	05/12/21	05/18/21	EPA 8015B/5035	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		3.11 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		122 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	56	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	13	2.0	"	"	"	"	"	"	
Cobalt	7.1	2.0	"	"	"	"	"	"	
Copper	8.9	1.0	"	"	"	"	"	"	
Lead	3.3	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.7	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	26	5.0	"	"	"	"	"	"	
Zinc	44	1.0	"	"	"	"	"	"	

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05/20/21 17:17

SB10-1

T211590-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051233	05/12/21	05/13/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

82.8 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

118 % 35-140

" " " "

SunStar Laboratories, Inc.

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB10-1
T211590-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	2.2	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
Bromochloromethane	ND	2.2	"	"	"	"	"	"	
Bromodichloromethane	ND	2.2	"	"	"	"	"	"	
Bromoform	ND	2.2	"	"	"	"	"	"	
Bromomethane	ND	2.2	"	"	"	"	"	"	
n-Butylbenzene	ND	2.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.2	"	"	"	"	"	"	
Chlorobenzene	ND	2.2	"	"	"	"	"	"	
Chloroethane	ND	2.2	"	"	"	"	"	"	
Chloroform	ND	2.2	"	"	"	"	"	"	
Chloromethane	ND	2.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.2	"	"	"	"	"	"	
Dibromochloromethane	ND	2.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.2	"	"	"	"	"	"	
Dibromomethane	ND	2.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.2	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.2	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB10-1
T211590-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	2.2	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	2.2	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.2	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.2	"	"	"	"	"	"	
Isopropylbenzene	ND	2.2	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.2	"	"	"	"	"	"	
Methylene chloride	ND	8.9	"	"	"	"	"	"	
Naphthalene	ND	2.2	"	"	"	"	"	"	
n-Propylbenzene	ND	2.2	"	"	"	"	"	"	
Styrene	ND	2.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.2	"	"	"	"	"	"	
Tetrachloroethene	ND	2.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.2	"	"	"	"	"	"	
Trichloroethene	ND	2.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.2	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.2	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.2	"	"	"	"	"	"	
Vinyl chloride	ND	2.2	"	"	"	"	"	"	
Benzene	5.6	2.2	"	"	"	"	"	"	
Toluene	3.8	2.2	"	"	"	"	"	"	
Ethylbenzene	ND	2.2	"	"	"	"	"	"	
m,p-Xylene	ND	4.5	"	"	"	"	"	"	
o-Xylene	ND	2.2	"	"	"	"	"	"	
Surrogate: Toluene-d8		98.8 %		76.1-127	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.3 %		85.9-114	"	"	"	"	
Surrogate: Dibromofluoromethane		108 %		77.8-142	"	"	"	"	

SunStar Laboratories, Inc.

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB10-1

T211590-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB10-5

T211590-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	560	ug/kg	1	1051244	05/12/21	05/18/21	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		3.75 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		135 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	05/13/21	"	
Arsenic	ND	5.0	"	"	"	"	05/13/21	"	
Barium	48	1.0	"	"	"	"	05/13/21	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	05/13/21	"	
Chromium	12	2.0	"	"	"	"	05/13/21	"	
Cobalt	7.0	2.0	"	"	"	"	05/13/21	"	
Copper	8.0	1.0	"	"	"	"	05/13/21	"	
Lead	ND	3.0	"	"	"	"	05/13/21	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.1	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	05/13/21	"	
Vanadium	25	5.0	"	"	"	"	"	"	
Zinc	36	1.0	"	"	"	"	"	"	

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Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB10-5
T211590-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051233	05/12/21	05/13/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

82.0 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

117 % 35-140

" " " "

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB10-5
T211590-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

Bromobenzene	ND	2.5	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
Bromochloromethane	ND	2.5	"	"	"	"	"	"	
Bromodichloromethane	ND	2.5	"	"	"	"	"	"	
Bromoform	ND	2.5	"	"	"	"	"	"	
Bromomethane	ND	2.5	"	"	"	"	"	"	
n-Butylbenzene	ND	2.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"	
Chlorobenzene	ND	2.5	"	"	"	"	"	"	
Chloroethane	ND	2.5	"	"	"	"	"	"	
Chloroform	ND	2.5	"	"	"	"	"	"	
Chloromethane	ND	2.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
Dibromochloromethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Dibromomethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB10-5
T211590-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

1,1-Dichloropropene	ND	2.5	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.5	"	"	"	"	"	"	
Isopropylbenzene	ND	2.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.5	"	"	"	"	"	"	
Methylene chloride	ND	10	"	"	"	"	"	"	
Naphthalene	ND	2.5	"	"	"	"	"	"	
n-Propylbenzene	ND	2.5	"	"	"	"	"	"	
Styrene	ND	2.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
Tetrachloroethene	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"	
Trichloroethene	ND	2.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
Vinyl chloride	ND	2.5	"	"	"	"	"	"	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	2.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		98.9 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.8 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		120 %	77.8-142		"	"	"	"	

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB10-5

T211590-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

GW-10

T211590-18 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	0.050	mg/l	1	1051230	05/12/21	05/14/21	EPA 8015B	
C13-C28 (DRO)	0.27	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		118 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	50	ug/l	1	1051339	05/13/21	05/20/21	EPA 6010b	
Silver	ND	50	"	"	"	"	"	"	
Arsenic	ND	50	"	"	"	"	"	"	
Barium	180	50	"	"	"	"	"	"	
Beryllium	ND	50	"	"	"	"	05/20/21	"	
Cadmium	ND	50	"	"	"	"	05/20/21	"	
Chromium	ND	50	"	"	"	"	"	"	
Cobalt	ND	50	"	"	"	"	"	"	
Copper	ND	50	"	"	"	"	"	"	
Lead	ND	50	"	"	"	"	"	"	
Molybdenum	ND	50	"	"	"	"	"	"	
Nickel	ND	50	"	"	"	"	"	"	
Selenium	ND	50	"	"	"	"	"	"	
Thallium	ND	50	"	"	"	"	"	"	
Vanadium	62	50	"	"	"	"	"	"	
Zinc	600	50	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.50	ug/l	1	1051341	05/13/21	05/17/21	EPA 7470A Water	
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Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

GW-10

T211590-18 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	1051232	05/12/21	05/14/21	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

GW-10

T211590-18 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	1051232	05/12/21	05/14/21	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	76.7-116		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	49.2-135		"	"	"	"	
Surrogate: Toluene-d8		101 %	84.7-108		"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB2-1

T211590-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	580	ug/kg	1	1051245	05/12/21	05/19/21	EPA 8015B/5035	
Surrogate: a,a,a-Trifluorotoluene		4.18 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	24	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		118 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	65	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	05/13/21	"	
Cadmium	ND	2.0	"	"	"	"	05/13/21	"	
Chromium	15	2.0	"	"	"	"	"	"	
Cobalt	7.0	2.0	"	"	"	"	"	"	
Copper	20	1.0	"	"	"	"	"	"	
Lead	9.1	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.7	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	30	5.0	"	"	"	"	"	"	
Zinc	49	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB2-1

T211590-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051233	05/12/21	05/13/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	530	50	"	10	"	"	"	"	
Dieldrin	ND	5.0	"	1	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	43	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	1300	200	"	10	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		83.2 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		116 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB2-1

T211590-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	3.1	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
Bromochloromethane	ND	3.1	"	"	"	"	"	"	
Bromodichloromethane	ND	3.1	"	"	"	"	"	"	
Bromoform	ND	3.1	"	"	"	"	"	"	
Bromomethane	ND	3.1	"	"	"	"	"	"	
n-Butylbenzene	ND	3.1	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.1	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.1	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.1	"	"	"	"	"	"	
Chlorobenzene	ND	3.1	"	"	"	"	"	"	
Chloroethane	ND	3.1	"	"	"	"	"	"	
Chloroform	ND	3.1	"	"	"	"	"	"	
Chloromethane	ND	3.1	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.1	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.1	"	"	"	"	"	"	
Dibromochloromethane	ND	3.1	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.2	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	3.1	"	"	"	"	"	"	
Dibromomethane	ND	3.1	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.1	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.1	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.1	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.1	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.1	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.1	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB2-1

T211590-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	3.1	ug/kg	1	1051240	05/12/21	05/14/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	3.1	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.1	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.1	"	"	"	"	"	"	
Isopropylbenzene	ND	3.1	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.1	"	"	"	"	"	"	
Methylene chloride	ND	12	"	"	"	"	"	"	
Naphthalene	ND	3.1	"	"	"	"	"	"	
n-Propylbenzene	ND	3.1	"	"	"	"	"	"	
Styrene	ND	3.1	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.1	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.1	"	"	"	"	"	"	
Tetrachloroethene	ND	3.1	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.1	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.1	"	"	"	"	"	"	
Trichloroethene	ND	3.1	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.1	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.1	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.1	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.1	"	"	"	"	"	"	
Vinyl chloride	ND	3.1	"	"	"	"	"	"	
Benzene	ND	3.1	"	"	"	"	"	"	
Toluene	ND	3.1	"	"	"	"	"	"	
Ethylbenzene	ND	3.1	"	"	"	"	"	"	
m,p-Xylene	ND	6.2	"	"	"	"	"	"	
o-Xylene	ND	3.1	"	"	"	"	"	"	
Surrogate: Toluene-d8		103 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		115 %	77.8-142		"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB2-1

T211590-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB2-5

T211590-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	680	ug/kg	1	1051245	05/12/21	05/19/21	EPA 8015B/5035	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		12.9 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	19	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		119 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	50	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	05/13/21	"	
Cadmium	ND	2.0	"	"	"	"	05/13/21	"	
Chromium	9.3	2.0	"	"	"	"	"	"	
Cobalt	5.9	2.0	"	"	"	"	"	"	
Copper	7.0	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.7	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	23	5.0	"	"	"	"	"	"	
Zinc	33	1.0	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB2-5

T211590-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051233	05/12/21	05/13/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

84.3 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

128 % 35-140

" " " "

SunStar Laboratories, Inc.

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB2-5

T211590-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

Bromobenzene	ND	2.5	ug/kg	1	1051240	05/12/21	05/18/21	EPA 8260B/5035
Bromochloromethane	ND	2.5	"	"	"	"	"	"
Bromodichloromethane	ND	2.5	"	"	"	"	"	"
Bromoform	ND	2.5	"	"	"	"	"	"
Bromomethane	ND	2.5	"	"	"	"	"	"
n-Butylbenzene	ND	2.5	"	"	"	"	"	"
sec-Butylbenzene	ND	2.5	"	"	"	"	"	"
tert-Butylbenzene	ND	2.5	"	"	"	"	"	"
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"
Chlorobenzene	ND	2.5	"	"	"	"	"	"
Chloroethane	ND	2.5	"	"	"	"	"	"
Chloroform	ND	2.5	"	"	"	"	"	"
Chloromethane	ND	2.5	"	"	"	"	"	"
2-Chlorotoluene	ND	2.5	"	"	"	"	"	"
4-Chlorotoluene	ND	2.5	"	"	"	"	"	"
Dibromochloromethane	ND	2.5	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"
Dibromomethane	ND	2.5	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"
1,3-Dichloropropane	ND	2.5	"	"	"	"	"	"
2,2-Dichloropropane	ND	2.5	"	"	"	"	"	"

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Jeff Lee, Project Manager



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Northgate Environmental Management -- Laguna Hills
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Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB2-5

T211590-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

1,1-Dichloropropene	ND	2.5	ug/kg	1	1051240	05/12/21	05/18/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.5	"	"	"	"	"	"	
Isopropylbenzene	ND	2.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.5	"	"	"	"	"	"	
Methylene chloride	ND	10	"	"	"	"	"	"	
Naphthalene	ND	2.5	"	"	"	"	"	"	
n-Propylbenzene	ND	2.5	"	"	"	"	"	"	
Styrene	ND	2.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
Tetrachloroethene	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"	
Trichloroethene	ND	2.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
Vinyl chloride	ND	2.5	"	"	"	"	"	"	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	2.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		100 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		118 %	77.8-142		"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB2-5

T211590-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB11-1

T211590-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	500	ug/kg	1	1051245	05/12/21	05/19/21	EPA 8015B/5035	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		5.42 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		116 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	58	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	10	2.0	"	"	"	"	"	"	
Cobalt	6.3	2.0	"	"	"	"	"	"	
Copper	8.9	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.2	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	27	5.0	"	"	"	"	"	"	
Zinc	31	1.0	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB11-1

T211590-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051233	05/12/21	05/13/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

86.8 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

134 % 35-140

" " " "

SunStar Laboratories, Inc.

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB11-1

T211590-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

Bromobenzene	ND	3.0	ug/kg	1	1051240	05/12/21	05/18/21	EPA 8260B/5035
Bromochloromethane	ND	3.0	"	"	"	"	"	"
Bromodichloromethane	ND	3.0	"	"	"	"	"	"
Bromoform	ND	3.0	"	"	"	"	"	"
Bromomethane	ND	3.0	"	"	"	"	"	"
n-Butylbenzene	ND	3.0	"	"	"	"	"	"
sec-Butylbenzene	ND	3.0	"	"	"	"	"	"
tert-Butylbenzene	ND	3.0	"	"	"	"	"	"
Carbon tetrachloride	ND	3.0	"	"	"	"	"	"
Chlorobenzene	ND	3.0	"	"	"	"	"	"
Chloroethane	ND	3.0	"	"	"	"	"	"
Chloroform	ND	3.0	"	"	"	"	"	"
Chloromethane	ND	3.0	"	"	"	"	"	"
2-Chlorotoluene	ND	3.0	"	"	"	"	"	"
4-Chlorotoluene	ND	3.0	"	"	"	"	"	"
Dibromochloromethane	ND	3.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	6.1	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	3.0	"	"	"	"	"	"
Dibromomethane	ND	3.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	3.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	3.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	3.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	3.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	3.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	3.0	"	"	"	"	"	"
1,1-Dichloroethene	ND	3.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	3.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	3.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	3.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	3.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	3.0	"	"	"	"	"	"

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB11-1

T211590-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

1,1-Dichloropropene	ND	3.0	ug/kg	1	1051240	05/12/21	05/18/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	3.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.0	"	"	"	"	"	"	
Isopropylbenzene	ND	3.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.0	"	"	"	"	"	"	
Methylene chloride	ND	12	"	"	"	"	"	"	
Naphthalene	ND	3.0	"	"	"	"	"	"	
n-Propylbenzene	ND	3.0	"	"	"	"	"	"	
Styrene	ND	3.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	3.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.0	"	"	"	"	"	"	
Trichloroethene	ND	3.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.0	"	"	"	"	"	"	
Vinyl chloride	ND	3.0	"	"	"	"	"	"	
Benzene	ND	3.0	"	"	"	"	"	"	
Toluene	ND	3.0	"	"	"	"	"	"	
Ethylbenzene	ND	3.0	"	"	"	"	"	"	
m,p-Xylene	ND	6.1	"	"	"	"	"	"	
o-Xylene	ND	3.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.8 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.9 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		115 %	77.8-142		"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB11-1

T211590-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB11-5
T211590-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	650	ug/kg	1	1051245	05/12/21	05/18/21	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		14.3 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051231	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		135 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	2.7	mg/kg	1	1051228	05/12/21	05/13/21	EPA 6010b	
Silver	ND	1.8	"	"	"	"	"	"	
Arsenic	ND	4.5	"	"	"	"	"	"	
Barium	47	0.91	"	"	"	"	"	"	
Beryllium	ND	0.91	"	"	"	"	"	"	
Cadmium	ND	1.8	"	"	"	"	"	"	
Chromium	12	1.8	"	"	"	"	"	"	
Cobalt	6.6	1.8	"	"	"	"	"	"	
Copper	7.3	0.91	"	"	"	"	"	"	
Lead	ND	2.7	"	"	"	"	"	"	
Molybdenum	ND	4.5	"	"	"	"	"	"	
Nickel	7.6	1.8	"	"	"	"	"	"	
Selenium	ND	4.5	"	"	"	"	"	"	
Thallium	ND	4.5	"	"	"	"	"	"	
Vanadium	26	4.5	"	"	"	"	"	"	
Zinc	36	0.91	"	"	"	"	"	"	

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Project Manager: Derrick Willis

Reported:
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SB11-5
T211590-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051229	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051233	05/12/21	05/13/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

93.4 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

139 % 35-140

" " " "

SunStar Laboratories, Inc.

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB11-5
T211590-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	2.5	ug/kg	1	1051243	05/12/21	05/17/21	EPA 8260B/5035	
Bromochloromethane	ND	2.5	"	"	"	"	"	"	
Bromodichloromethane	ND	2.5	"	"	"	"	"	"	
Bromoform	ND	2.5	"	"	"	"	"	"	
Bromomethane	ND	2.5	"	"	"	"	"	"	
n-Butylbenzene	ND	2.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"	
Chlorobenzene	ND	2.5	"	"	"	"	"	"	
Chloroethane	ND	2.5	"	"	"	"	"	"	
Chloroform	ND	2.5	"	"	"	"	"	"	
Chloromethane	ND	2.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
Dibromochloromethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Dibromomethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB11-5
T211590-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	2.5	ug/kg	1	1051243	05/12/21	05/17/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.5	"	"	"	"	"	"	
Isopropylbenzene	ND	2.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.5	"	"	"	"	"	"	
Methylene chloride	ND	10	"	"	"	"	"	"	
Naphthalene	ND	2.5	"	"	"	"	"	"	
n-Propylbenzene	ND	2.5	"	"	"	"	"	"	
Styrene	ND	2.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
Tetrachloroethene	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"	
Trichloroethene	ND	2.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
Vinyl chloride	ND	2.5	"	"	"	"	"	"	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	2.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		98.1 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	77.8-142		"	"	"	"	

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Project: Holland FV
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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB11-5

T211590-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB12-1

T211590-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	750	ug/kg	1	1051245	05/12/21	05/18/21	EPA 8015B/5035	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		2.08 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051238	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	280	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		79.0 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	2.7	mg/kg	1	1051236	05/12/21	05/13/21	EPA 6010b	
Silver	ND	1.8	"	"	"	"	"	"	
Arsenic	ND	4.5	"	"	"	"	"	"	
Barium	42	0.91	"	"	"	"	"	"	
Beryllium	ND	0.91	"	"	"	"	05/13/21	"	
Cadmium	ND	1.8	"	"	"	"	05/13/21	"	
Chromium	7.9	1.8	"	"	"	"	"	"	
Cobalt	3.8	1.8	"	"	"	"	"	"	
Copper	9.9	0.91	"	"	"	"	"	"	
Lead	7.2	2.7	"	"	"	"	"	"	
Molybdenum	ND	4.5	"	"	"	"	"	"	
Nickel	5.5	1.8	"	"	"	"	"	"	
Selenium	ND	4.5	"	"	"	"	"	"	
Thallium	ND	4.5	"	"	"	"	"	"	
Vanadium	18	4.5	"	"	"	"	"	"	
Zinc	34	0.91	"	"	"	"	"	"	

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Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB12-1

T211590-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051237	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	50	ug/kg	10	1051239	05/12/21	05/17/21	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	50	"	"	"	"	"	"	R-07
beta-BHC	ND	50	"	"	"	"	"	"	R-07
delta-BHC	ND	50	"	"	"	"	"	"	R-07
Heptachlor	ND	50	"	"	"	"	"	"	R-07
Aldrin	ND	50	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	50	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	50	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	50	"	"	"	"	"	"	R-07
Endosulfan I	ND	50	"	"	"	"	"	"	R-07
4,4'-DDE	160	50	"	"	"	"	"	"	R-07
Dieldrin	ND	50	"	"	"	"	"	"	R-07
Endrin	ND	50	"	"	"	"	"	"	R-07
4,4'-DDD	ND	50	"	"	"	"	"	"	R-07
Endosulfan II	ND	50	"	"	"	"	"	"	R-07
4,4'-DDT	ND	50	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	50	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	50	"	"	"	"	"	"	R-07
Methoxychlor	ND	50	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	200	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		72.9 %	35-140		"	"	"	"	R-07
Surrogate: Decachlorobiphenyl		99.4 %	35-140		"	"	"	"	R-07

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB12-1

T211590-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	3.7	ug/kg	1	1051243	05/12/21	05/17/21	EPA 8260B/5035	
Bromochloromethane	ND	3.7	"	"	"	"	"	"	
Bromodichloromethane	ND	3.7	"	"	"	"	"	"	
Bromoform	ND	3.7	"	"	"	"	"	"	
Bromomethane	ND	3.7	"	"	"	"	"	"	
n-Butylbenzene	ND	3.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.7	"	"	"	"	"	"	
Chlorobenzene	ND	3.7	"	"	"	"	"	"	
Chloroethane	ND	3.7	"	"	"	"	"	"	
Chloroform	ND	3.7	"	"	"	"	"	"	
Chloromethane	ND	3.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.7	"	"	"	"	"	"	
Dibromochloromethane	ND	3.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	7.3	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	3.7	"	"	"	"	"	"	
Dibromomethane	ND	3.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.7	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB12-1
T211590-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	3.7	ug/kg	1	1051243	05/12/21	05/17/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	3.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.7	"	"	"	"	"	"	
Isopropylbenzene	ND	3.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.7	"	"	"	"	"	"	
Methylene chloride	ND	15	"	"	"	"	"	"	
Naphthalene	ND	3.7	"	"	"	"	"	"	
n-Propylbenzene	ND	3.7	"	"	"	"	"	"	
Styrene	ND	3.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.7	"	"	"	"	"	"	
Tetrachloroethene	ND	3.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.7	"	"	"	"	"	"	
Trichloroethene	ND	3.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.7	"	"	"	"	"	"	
Vinyl chloride	ND	3.7	"	"	"	"	"	"	
Benzene	ND	3.7	"	"	"	"	"	"	
Toluene	ND	3.7	"	"	"	"	"	"	
Ethylbenzene	ND	3.7	"	"	"	"	"	"	
m,p-Xylene	ND	7.3	"	"	"	"	"	"	
o-Xylene	ND	3.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.9 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.3 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		109 %	77.8-142		"	"	"	"	

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SB12-1

T211590-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB12-5
T211590-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	570	ug/kg	1	1051245	05/12/21	05/19/21	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		3.48 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051238	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		84.6 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051236	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	48	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	05/13/21	"	
Cadmium	ND	2.0	"	"	"	"	05/13/21	"	
Chromium	10	2.0	"	"	"	"	"	"	
Cobalt	6.0	2.0	"	"	"	"	"	"	
Copper	6.3	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.6	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	24	5.0	"	"	"	"	"	"	
Zinc	31	1.0	"	"	"	"	"	"	

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SB12-5
T211590-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051237	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051239	05/12/21	05/17/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

78.4 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

105 % 35-140

" " " "

SunStar Laboratories, Inc.

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB12-5
T211590-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	3.0	ug/kg	1	1051243	05/12/21	05/17/21	EPA 8260B/5035	
Bromochloromethane	ND	3.0	"	"	"	"	"	"	
Bromodichloromethane	ND	3.0	"	"	"	"	"	"	
Bromoform	ND	3.0	"	"	"	"	"	"	
Bromomethane	ND	3.0	"	"	"	"	"	"	
n-Butylbenzene	ND	3.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.0	"	"	"	"	"	"	
Chlorobenzene	ND	3.0	"	"	"	"	"	"	
Chloroethane	ND	3.0	"	"	"	"	"	"	
Chloroform	ND	3.0	"	"	"	"	"	"	
Chloromethane	ND	3.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.0	"	"	"	"	"	"	
Dibromochloromethane	ND	3.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	3.0	"	"	"	"	"	"	
Dibromomethane	ND	3.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.0	"	"	"	"	"	"	

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05/20/21 17:17

SB12-5
T211590-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	3.0	ug/kg	1	1051243	05/12/21	05/17/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	3.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.0	"	"	"	"	"	"	
Isopropylbenzene	ND	3.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.0	"	"	"	"	"	"	
Methylene chloride	ND	12	"	"	"	"	"	"	
Naphthalene	ND	3.0	"	"	"	"	"	"	
n-Propylbenzene	ND	3.0	"	"	"	"	"	"	
Styrene	ND	3.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	3.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.0	"	"	"	"	"	"	
Trichloroethene	ND	3.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.0	"	"	"	"	"	"	
Vinyl chloride	ND	3.0	"	"	"	"	"	"	
Benzene	ND	3.0	"	"	"	"	"	"	
Toluene	ND	3.0	"	"	"	"	"	"	
Ethylbenzene	ND	3.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.9	"	"	"	"	"	"	
o-Xylene	ND	3.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.3 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	77.8-142		"	"	"	"	

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB12-5

T211590-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB13-1

T211590-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	580	ug/kg	1	1051245	05/12/21	05/19/21	EPA 8015B/5035	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		10.5 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051238	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		84.0 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051236	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	60	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	14	2.0	"	"	"	"	"	"	
Cobalt	7.0	2.0	"	"	"	"	"	"	
Copper	8.9	1.0	"	"	"	"	"	"	
Lead	4.3	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.0	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	28	5.0	"	"	"	"	"	"	
Zinc	43	1.0	"	"	"	"	"	"	

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SB13-1

T211590-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051237	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051239	05/12/21	05/17/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	47	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	6.0	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		56.0 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		73.8 %	35-140		"	"	"	"	

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB13-1

T211590-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	2.9	ug/kg	1	1051243	05/12/21	05/17/21	EPA 8260B/5035	
Bromochloromethane	ND	2.9	"	"	"	"	"	"	
Bromodichloromethane	ND	2.9	"	"	"	"	"	"	
Bromoform	ND	2.9	"	"	"	"	"	"	
Bromomethane	ND	2.9	"	"	"	"	"	"	
n-Butylbenzene	ND	2.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.9	"	"	"	"	"	"	
Chlorobenzene	ND	2.9	"	"	"	"	"	"	
Chloroethane	ND	2.9	"	"	"	"	"	"	
Chloroform	ND	2.9	"	"	"	"	"	"	
Chloromethane	ND	2.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.9	"	"	"	"	"	"	
Dibromochloromethane	ND	2.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.9	"	"	"	"	"	"	
Dibromomethane	ND	2.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.9	"	"	"	"	"	"	

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05/20/21 17:17

SB13-1

T211590-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	2.9	ug/kg	1	1051243	05/12/21	05/17/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	2.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.9	"	"	"	"	"	"	
Isopropylbenzene	ND	2.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.9	"	"	"	"	"	"	
Methylene chloride	ND	11	"	"	"	"	"	"	
Naphthalene	ND	2.9	"	"	"	"	"	"	
n-Propylbenzene	ND	2.9	"	"	"	"	"	"	
Styrene	ND	2.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.9	"	"	"	"	"	"	
Tetrachloroethene	ND	2.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.9	"	"	"	"	"	"	
Trichloroethene	ND	2.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.9	"	"	"	"	"	"	
Vinyl chloride	ND	2.9	"	"	"	"	"	"	
Benzene	ND	2.9	"	"	"	"	"	"	
Toluene	ND	2.9	"	"	"	"	"	"	
Ethylbenzene	ND	2.9	"	"	"	"	"	"	
m,p-Xylene	ND	5.7	"	"	"	"	"	"	
o-Xylene	ND	2.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		98.6 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.1 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	77.8-142		"	"	"	"	

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SB13-1

T211590-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
05/20/21 17:17

SB13-5

T211590-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	520	ug/kg	1	1051245	05/12/21	05/18/21	EPA 8015B/5035	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		48.5 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051238	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		72.0 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051236	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	60	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	11	2.0	"	"	"	"	"	"	
Cobalt	6.5	2.0	"	"	"	"	"	"	
Copper	8.7	1.0	"	"	"	"	"	"	
Lead	3.1	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.4	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	26	5.0	"	"	"	"	"	"	
Zinc	36	1.0	"	"	"	"	"	"	

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Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB13-5
T211590-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051237	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051239	05/12/21	05/17/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	21	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

81.5 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

113 % 35-140

" " " "

SunStar Laboratories, Inc.

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB13-5
T211590-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

Bromobenzene	ND	2.5	ug/kg	1	1051243	05/12/21	05/17/21	EPA 8260B/5035	
Bromochloromethane	ND	2.5	"	"	"	"	"	"	
Bromodichloromethane	ND	2.5	"	"	"	"	"	"	
Bromoform	ND	2.5	"	"	"	"	"	"	
Bromomethane	ND	2.5	"	"	"	"	"	"	
n-Butylbenzene	ND	2.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"	
Chlorobenzene	ND	2.5	"	"	"	"	"	"	
Chloroethane	ND	2.5	"	"	"	"	"	"	
Chloroform	ND	2.5	"	"	"	"	"	"	
Chloromethane	3.4	2.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
Dibromochloromethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Dibromomethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	

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Reported:
05/20/21 17:17

SB13-5
T211590-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

M-04

1,1-Dichloropropene	ND	2.5	ug/kg	1	1051243	05/12/21	05/17/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.5	"	"	"	"	"	"	
Isopropylbenzene	ND	2.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.5	"	"	"	"	"	"	
Methylene chloride	ND	10	"	"	"	"	"	"	
Naphthalene	ND	2.5	"	"	"	"	"	"	
n-Propylbenzene	ND	2.5	"	"	"	"	"	"	
Styrene	ND	2.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
Tetrachloroethene	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"	
Trichloroethene	ND	2.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
Vinyl chloride	ND	2.5	"	"	"	"	"	"	
Benzene	110	2.5	"	"	"	"	"	"	
Toluene	78	2.5	"	"	"	"	"	"	
Ethylbenzene	10	2.5	"	"	"	"	"	"	
m,p-Xylene	10	5.0	"	"	"	"	"	"	
o-Xylene	3.3	2.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		98.1 %		76.1-127	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.5 %		85.9-114	"	"	"	"	
Surrogate: Dibromofluoromethane		112 %		77.8-142	"	"	"	"	

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SB13-5

T211590-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB14-1

T211590-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	500	ug/kg	1	1051245	05/12/21	05/18/21	EPA 8015B/5035	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		5.03 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051238	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		87.3 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051236	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	63	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	05/13/21	"	
Cadmium	ND	2.0	"	"	"	"	05/13/21	"	
Chromium	13	2.0	"	"	"	"	"	"	
Cobalt	6.9	2.0	"	"	"	"	"	"	
Copper	16	1.0	"	"	"	"	"	"	
Lead	6.2	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.5	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	28	5.0	"	"	"	"	"	"	
Zinc	44	1.0	"	"	"	"	"	"	

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05/20/21 17:17

SB14-1

T211590-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051237	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051239	05/12/21	05/17/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	87	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	13	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	690	200	"	10	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		87.7 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		124 %	35-140		"	"	"	"	

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05/20/21 17:17

SB14-1

T211590-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	2.5	ug/kg	1	1051243	05/12/21	05/17/21	EPA 8260B/5035	
Bromochloromethane	ND	2.5	"	"	"	"	"	"	
Bromodichloromethane	ND	2.5	"	"	"	"	"	"	
Bromoform	ND	2.5	"	"	"	"	"	"	
Bromomethane	ND	2.5	"	"	"	"	"	"	
n-Butylbenzene	ND	2.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"	
Chlorobenzene	ND	2.5	"	"	"	"	"	"	
Chloroethane	ND	2.5	"	"	"	"	"	"	
Chloroform	ND	2.5	"	"	"	"	"	"	
Chloromethane	ND	2.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
Dibromochloromethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Dibromomethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB14-1

T211590-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	2.5	ug/kg	1	1051243	05/12/21	05/17/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.5	"	"	"	"	"	"	
Isopropylbenzene	ND	2.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.5	"	"	"	"	"	"	
Methylene chloride	ND	10	"	"	"	"	"	"	
Naphthalene	ND	2.5	"	"	"	"	"	"	
n-Propylbenzene	ND	2.5	"	"	"	"	"	"	
Styrene	ND	2.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
Tetrachloroethene	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"	
Trichloroethene	ND	2.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
Vinyl chloride	ND	2.5	"	"	"	"	"	"	
Benzene	11	2.5	"	"	"	"	"	"	
Toluene	8.7	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	2.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.2 %		76.1-127	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.2 %		85.9-114	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %		77.8-142	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB14-1

T211590-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB14-5

T211590-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	500	ug/kg	1	1051245	05/12/21	05/19/21	EPA 8015B/5035	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		2.25 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051238	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		97.4 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051236	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	54	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	05/13/21	"	
Cadmium	ND	2.0	"	"	"	"	05/13/21	"	
Chromium	9.9	2.0	"	"	"	"	"	"	
Cobalt	5.7	2.0	"	"	"	"	"	"	
Copper	6.7	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.8	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	25	5.0	"	"	"	"	"	"	
Zinc	29	1.0	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB14-5

T211590-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051237	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051239	05/12/21	05/17/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

73.5 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

109 % 35-140

" " " "

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB14-5
T211590-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	3.1	ug/kg	1	1051243	05/12/21	05/18/21	EPA 8260B/5035	
Bromochloromethane	ND	3.1	"	"	"	"	"	"	
Bromodichloromethane	ND	3.1	"	"	"	"	"	"	
Bromoform	ND	3.1	"	"	"	"	"	"	
Bromomethane	ND	3.1	"	"	"	"	"	"	
n-Butylbenzene	ND	3.1	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.1	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.1	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.1	"	"	"	"	"	"	
Chlorobenzene	ND	3.1	"	"	"	"	"	"	
Chloroethane	ND	3.1	"	"	"	"	"	"	
Chloroform	ND	3.1	"	"	"	"	"	"	
Chloromethane	ND	3.1	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.1	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.1	"	"	"	"	"	"	
Dibromochloromethane	ND	3.1	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.1	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	3.1	"	"	"	"	"	"	
Dibromomethane	ND	3.1	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.1	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.1	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.1	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.1	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.1	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.1	"	"	"	"	"	"	

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB14-5
T211590-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	3.1	ug/kg	1	1051243	05/12/21	05/18/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	3.1	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.1	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.1	"	"	"	"	"	"	
Isopropylbenzene	ND	3.1	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.1	"	"	"	"	"	"	
Methylene chloride	ND	12	"	"	"	"	"	"	
Naphthalene	ND	3.1	"	"	"	"	"	"	
n-Propylbenzene	ND	3.1	"	"	"	"	"	"	
Styrene	ND	3.1	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.1	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.1	"	"	"	"	"	"	
Tetrachloroethene	ND	3.1	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.1	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.1	"	"	"	"	"	"	
Trichloroethene	ND	3.1	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.1	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.1	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.1	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.1	"	"	"	"	"	"	
Vinyl chloride	ND	3.1	"	"	"	"	"	"	
Benzene	ND	3.1	"	"	"	"	"	"	
Toluene	ND	3.1	"	"	"	"	"	"	
Ethylbenzene	ND	3.1	"	"	"	"	"	"	
m,p-Xylene	ND	6.1	"	"	"	"	"	"	
o-Xylene	ND	3.1	"	"	"	"	"	"	
Surrogate: Toluene-d8		96.5 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.9 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	77.8-142		"	"	"	"	

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SB14-5

T211590-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB15-1

T211590-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	550	ug/kg	1	1051245	05/12/21	05/19/21	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		10.2 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051238	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		81.7 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051236	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	58	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	11	2.0	"	"	"	"	"	"	
Cobalt	6.7	2.0	"	"	"	"	"	"	
Copper	9.7	1.0	"	"	"	"	"	"	
Lead	3.6	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.4	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	28	5.0	"	"	"	"	"	"	
Zinc	40	1.0	"	"	"	"	"	"	

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SB15-1

T211590-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051237	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051239	05/12/21	05/17/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	11	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

66.9 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

98.1 % 35-140

" " " "

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05/20/21 17:17

SB15-1

T211590-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	3.2	ug/kg	1	1051243	05/12/21	05/18/21	EPA 8260B/5035	
Bromochloromethane	ND	3.2	"	"	"	"	"	"	
Bromodichloromethane	ND	3.2	"	"	"	"	"	"	
Bromoform	ND	3.2	"	"	"	"	"	"	
Bromomethane	ND	3.2	"	"	"	"	"	"	
n-Butylbenzene	ND	3.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.2	"	"	"	"	"	"	
Chlorobenzene	ND	3.2	"	"	"	"	"	"	
Chloroethane	ND	3.2	"	"	"	"	"	"	
Chloroform	ND	3.2	"	"	"	"	"	"	
Chloromethane	ND	3.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.2	"	"	"	"	"	"	
Dibromochloromethane	ND	3.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.4	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	3.2	"	"	"	"	"	"	
Dibromomethane	ND	3.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.2	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.2	"	"	"	"	"	"	

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SB15-1
T211590-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	3.2	ug/kg	1	1051243	05/12/21	05/18/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	3.2	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.2	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.2	"	"	"	"	"	"	
Isopropylbenzene	ND	3.2	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.2	"	"	"	"	"	"	
Methylene chloride	ND	13	"	"	"	"	"	"	
Naphthalene	ND	3.2	"	"	"	"	"	"	
n-Propylbenzene	ND	3.2	"	"	"	"	"	"	
Styrene	ND	3.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.2	"	"	"	"	"	"	
Tetrachloroethene	ND	3.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.2	"	"	"	"	"	"	
Trichloroethene	ND	3.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.2	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.2	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.2	"	"	"	"	"	"	
Vinyl chloride	ND	3.2	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Toluene	ND	3.2	"	"	"	"	"	"	
Ethylbenzene	ND	3.2	"	"	"	"	"	"	
m,p-Xylene	ND	6.4	"	"	"	"	"	"	
o-Xylene	ND	3.2	"	"	"	"	"	"	
Surrogate: Toluene-d8		96.6 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.3 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	77.8-142		"	"	"	"	

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Reported:
05/20/21 17:17

SB15-1

T211590-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



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Northgate Environmental Management -- Laguna Hills
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB15-5
T211590-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	460	ug/kg	1	1051245	05/12/21	05/18/21	EPA 8015B/5035	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		32.3 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051238	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p-Terphenyl</i>		110 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051236	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	59	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	7.5	2.0	"	"	"	"	"	"	
Cobalt	4.9	2.0	"	"	"	"	"	"	
Copper	4.5	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	5.4	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	22	5.0	"	"	"	"	"	"	
Zinc	23	1.0	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB15-5
T211590-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051237	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051239	05/12/21	05/17/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

82.4 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

120 % 35-140

" " " "

SunStar Laboratories, Inc.

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB15-5
T211590-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	2.5	ug/kg	1	1051243	05/12/21	05/18/21	EPA 8260B/5035	
Bromochloromethane	ND	2.5	"	"	"	"	"	"	
Bromodichloromethane	ND	2.5	"	"	"	"	"	"	
Bromoform	ND	2.5	"	"	"	"	"	"	
Bromomethane	ND	2.5	"	"	"	"	"	"	
n-Butylbenzene	ND	2.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"	
Chlorobenzene	ND	2.5	"	"	"	"	"	"	
Chloroethane	ND	2.5	"	"	"	"	"	"	
Chloroform	ND	2.5	"	"	"	"	"	"	
Chloromethane	ND	2.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
Dibromochloromethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Dibromomethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB15-5
T211590-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	2.5	ug/kg	1	1051243	05/12/21	05/18/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.5	"	"	"	"	"	"	
Isopropylbenzene	ND	2.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.5	"	"	"	"	"	"	
Methylene chloride	ND	10	"	"	"	"	"	"	
Naphthalene	ND	2.5	"	"	"	"	"	"	
n-Propylbenzene	ND	2.5	"	"	"	"	"	"	
Styrene	ND	2.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
Tetrachloroethene	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"	
Trichloroethene	ND	2.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
Vinyl chloride	ND	2.5	"	"	"	"	"	"	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	2.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.4 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	77.8-142		"	"	"	"	

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Project: Holland FV
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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB15-5

T211590-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB16-1

T211590-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	650	ug/kg	1	1051245	05/12/21	05/19/21	EPA 8015B/5035	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		4.41 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051238	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		110 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051236	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	51	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	05/13/21	"	
Cadmium	ND	2.0	"	"	"	"	05/13/21	"	
Chromium	9.7	2.0	"	"	"	"	"	"	
Cobalt	6.2	2.0	"	"	"	"	"	"	
Copper	6.7	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.5	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	26	5.0	"	"	"	"	"	"	
Zinc	33	1.0	"	"	"	"	"	"	

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Project: Holland FV
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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB16-1

T211590-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051237	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051239	05/12/21	05/17/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

51.5 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

78.7 % 35-140

" " " "

SunStar Laboratories, Inc.

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB16-1

T211590-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	3.2	ug/kg	1	1051243	05/12/21	05/18/21	EPA 8260B/5035	
Bromochloromethane	ND	3.2	"	"	"	"	"	"	
Bromodichloromethane	ND	3.2	"	"	"	"	"	"	
Bromoform	ND	3.2	"	"	"	"	"	"	
Bromomethane	ND	3.2	"	"	"	"	"	"	
n-Butylbenzene	ND	3.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.2	"	"	"	"	"	"	
Chlorobenzene	ND	3.2	"	"	"	"	"	"	
Chloroethane	ND	3.2	"	"	"	"	"	"	
Chloroform	ND	3.2	"	"	"	"	"	"	
Chloromethane	ND	3.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.2	"	"	"	"	"	"	
Dibromochloromethane	ND	3.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.4	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	3.2	"	"	"	"	"	"	
Dibromomethane	ND	3.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.2	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.2	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB16-1
T211590-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	3.2	ug/kg	1	1051243	05/12/21	05/18/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	3.2	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.2	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.2	"	"	"	"	"	"	
Isopropylbenzene	ND	3.2	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.2	"	"	"	"	"	"	
Methylene chloride	ND	13	"	"	"	"	"	"	
Naphthalene	ND	3.2	"	"	"	"	"	"	
n-Propylbenzene	ND	3.2	"	"	"	"	"	"	
Styrene	ND	3.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.2	"	"	"	"	"	"	
Tetrachloroethene	ND	3.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.2	"	"	"	"	"	"	
Trichloroethene	ND	3.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.2	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.2	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.2	"	"	"	"	"	"	
Vinyl chloride	ND	3.2	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Toluene	ND	3.2	"	"	"	"	"	"	
Ethylbenzene	ND	3.2	"	"	"	"	"	"	
m,p-Xylene	ND	6.4	"	"	"	"	"	"	
o-Xylene	ND	3.2	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.3 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.2 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB16-1

T211590-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB16-5

T211590-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	480	ug/kg	1	1051245	05/12/21	05/18/21	EPA 8015B/5035	
Surrogate: a,a,a-Trifluorotoluene		61.0 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051238	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	12	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		74.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051236	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	56	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	05/13/21	"	
Cadmium	ND	2.0	"	"	"	"	05/13/21	"	
Chromium	13	2.0	"	"	"	"	"	"	
Cobalt	6.9	2.0	"	"	"	"	"	"	
Copper	13	1.0	"	"	"	"	"	"	
Lead	5.7	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.6	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	28	5.0	"	"	"	"	"	"	
Zinc	40	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Reported:
05/20/21 17:17

SB16-5
T211590-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051237	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051239	05/12/21	05/17/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	99	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	62	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		90.7 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		138 %	35-140		"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB16-5
T211590-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	2.5	ug/kg	1	1051243	05/12/21	05/18/21	EPA 8260B/5035	
Bromochloromethane	ND	2.5	"	"	"	"	"	"	
Bromodichloromethane	ND	2.5	"	"	"	"	"	"	
Bromoform	ND	2.5	"	"	"	"	"	"	
Bromomethane	ND	2.5	"	"	"	"	"	"	
n-Butylbenzene	ND	2.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"	
Chlorobenzene	ND	2.5	"	"	"	"	"	"	
Chloroethane	ND	2.5	"	"	"	"	"	"	
Chloroform	ND	2.5	"	"	"	"	"	"	
Chloromethane	ND	2.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
Dibromochloromethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Dibromomethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB16-5
T211590-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	2.5	ug/kg	1	1051243	05/12/21	05/18/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.5	"	"	"	"	"	"	
Isopropylbenzene	ND	2.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.5	"	"	"	"	"	"	
Methylene chloride	ND	10	"	"	"	"	"	"	
Naphthalene	ND	2.5	"	"	"	"	"	"	
n-Propylbenzene	ND	2.5	"	"	"	"	"	"	
Styrene	ND	2.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
Tetrachloroethene	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"	
Trichloroethene	ND	2.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
Vinyl chloride	ND	2.5	"	"	"	"	"	"	
Benzene	7.9	2.5	"	"	"	"	"	"	
Toluene	4.6	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	2.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		98.6 %		76.1-127	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.3 %		85.9-114	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %		77.8-142	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB16-5

T211590-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

GW-2

T211590-33 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	0.10	0.050	mg/l	1	1051230	05/12/21	05/14/21	EPA 8015B	
C13-C28 (DRO)	0.54	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		113 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	1051232	05/12/21	05/14/21	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

GW-2

T211590-33 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

trans-1,2-Dichloroethene	ND	1.0	ug/l	1	1051232	05/12/21	05/14/21	EPA 8260B	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	

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Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

GW-2

T211590-33 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Surrogate: 4-Bromofluorobenzene	103 %	76.7-116	1051232	05/12/21	05/14/21	EPA 8260B
Surrogate: Dibromofluoromethane	101 %	49.2-135	"	"	"	"
Surrogate: Toluene-d8	101 %	84.7-108	"	"	"	"

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB9-1

T211590-34 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	620	ug/kg	1	1051245	05/12/21	05/19/21	EPA 8015B/5035	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		8.46 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051238	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		112 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051236	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	55	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	05/13/21	"	
Cadmium	ND	2.0	"	"	"	"	05/13/21	"	
Chromium	12	2.0	"	"	"	"	"	"	
Cobalt	6.4	2.0	"	"	"	"	"	"	
Copper	10	1.0	"	"	"	"	"	"	
Lead	18	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.6	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	25	5.0	"	"	"	"	"	"	
Zinc	52	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB9-1

T211590-34 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051237	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051239	05/12/21	05/17/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	8.8	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

80.6 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

118 % 35-140

" " " "

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Reported:
05/20/21 17:17

SB9-1

T211590-34 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	2.5	ug/kg	1	1051243	05/12/21	05/18/21	EPA 8260B/5035	
Bromochloromethane	ND	2.5	"	"	"	"	"	"	
Bromodichloromethane	ND	2.5	"	"	"	"	"	"	
Bromoform	ND	2.5	"	"	"	"	"	"	
Bromomethane	ND	2.5	"	"	"	"	"	"	
n-Butylbenzene	ND	2.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"	
Chlorobenzene	ND	2.5	"	"	"	"	"	"	
Chloroethane	ND	2.5	"	"	"	"	"	"	
Chloroform	ND	2.5	"	"	"	"	"	"	
Chloromethane	ND	2.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
Dibromochloromethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Dibromomethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB9-1

T211590-34 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	2.5	ug/kg	1	1051243	05/12/21	05/18/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.5	"	"	"	"	"	"	
Isopropylbenzene	ND	2.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.5	"	"	"	"	"	"	
Methylene chloride	ND	10	"	"	"	"	"	"	
Naphthalene	ND	2.5	"	"	"	"	"	"	
n-Propylbenzene	ND	2.5	"	"	"	"	"	"	
Styrene	ND	2.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
Tetrachloroethene	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"	
Trichloroethene	ND	2.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
Vinyl chloride	ND	2.5	"	"	"	"	"	"	
Benzene	3.5	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	2.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.9 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.9 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		109 %	77.8-142		"	"	"	"	

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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB9-1

T211590-34 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB9-5

T211590-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015B

C6-C12 (GRO)	ND	620	ug/kg	1	1051245	05/12/21	05/19/21	EPA 8015B/5035	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		8.41 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	ND	10	mg/kg	1	1051238	05/12/21	05/16/21	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		67.8 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051236	05/12/21	05/13/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	64	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	12	2.0	"	"	"	"	"	"	
Cobalt	6.9	2.0	"	"	"	"	"	"	
Copper	9.6	1.0	"	"	"	"	"	"	
Lead	3.0	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.0	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	27	5.0	"	"	"	"	"	"	
Zinc	38	1.0	"	"	"	"	"	"	

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SB9-5

T211590-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051237	05/12/21	05/13/21	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	1051239	05/12/21	05/17/21	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	5.0	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	20	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

86.5 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

132 % 35-140

" " " "

SunStar Laboratories, Inc.

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05/20/21 17:17

SB9-5

T211590-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	3.5	ug/kg	1	1051243	05/12/21	05/18/21	EPA 8260B/5035	
Bromochloromethane	ND	3.5	"	"	"	"	"	"	
Bromodichloromethane	ND	3.5	"	"	"	"	"	"	
Bromoform	ND	3.5	"	"	"	"	"	"	
Bromomethane	ND	3.5	"	"	"	"	"	"	
n-Butylbenzene	ND	3.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.5	"	"	"	"	"	"	
Chlorobenzene	ND	3.5	"	"	"	"	"	"	
Chloroethane	ND	3.5	"	"	"	"	"	"	
Chloroform	ND	3.5	"	"	"	"	"	"	
Chloromethane	ND	3.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.5	"	"	"	"	"	"	
Dibromochloromethane	ND	3.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	3.5	"	"	"	"	"	"	
Dibromomethane	ND	3.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.5	"	"	"	"	"	"	

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Project Number: 2047.28.025
Project Manager: Derrick Willis

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05/20/21 17:17

SB9-5

T211590-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	3.5	ug/kg	1	1051243	05/12/21	05/18/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	3.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.5	"	"	"	"	"	"	
Isopropylbenzene	ND	3.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.5	"	"	"	"	"	"	
Methylene chloride	ND	14	"	"	"	"	"	"	
Naphthalene	ND	3.5	"	"	"	"	"	"	
n-Propylbenzene	ND	3.5	"	"	"	"	"	"	
Styrene	ND	3.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.5	"	"	"	"	"	"	
Tetrachloroethene	ND	3.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.5	"	"	"	"	"	"	
Trichloroethene	ND	3.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.5	"	"	"	"	"	"	
Vinyl chloride	ND	3.5	"	"	"	"	"	"	
Benzene	ND	3.5	"	"	"	"	"	"	
Toluene	ND	3.5	"	"	"	"	"	"	
Ethylbenzene	ND	3.5	"	"	"	"	"	"	
m,p-Xylene	ND	6.9	"	"	"	"	"	"	
o-Xylene	ND	3.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		98.2 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	77.8-142		"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

SB9-5

T211590-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Purgeable Petroleum Hydrocarbons by EPA 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051244 - EPA 5035 GC

Blank (1051244-BLK1)

Prepared: 05/12/21 Analyzed: 05/17/21

C6-C12 (GRO)	ND	500	ug/kg							
Surrogate: a,a,a-Trifluorotoluene	103		"	100		103	65-135			

LCS (1051244-BS1)

Prepared: 05/12/21 Analyzed: 05/17/21

C6-C12 (GRO)	11000	500	ug/kg	11000		100	75-125			
Surrogate: a,a,a-Trifluorotoluene	123		"	100		123	65-135			

LCS Dup (1051244-BSD1)

Prepared: 05/12/21 Analyzed: 05/17/21

C6-C12 (GRO)	12000	500	ug/kg	11000		109	75-125	8.30	20	
Surrogate: a,a,a-Trifluorotoluene	129		"	100		129	65-135			

Batch 1051245 - EPA 5035 GC

Blank (1051245-BLK1)

Prepared: 05/12/21 Analyzed: 05/18/21

C6-C12 (GRO)	ND	500	ug/kg							
Surrogate: a,a,a-Trifluorotoluene	107		"	100		107	65-135			

LCS (1051245-BS1)

Prepared: 05/12/21 Analyzed: 05/18/21

C6-C12 (GRO)	8450	500	ug/kg	11000		76.8	75-125			
Surrogate: a,a,a-Trifluorotoluene	67.3		"	100		67.3	65-135			

LCS Dup (1051245-BSD1)

Prepared: 05/12/21 Analyzed: 05/18/21

C6-C12 (GRO)	8550	500	ug/kg	11000		77.7	75-125	1.20	20	
Surrogate: a,a,a-Trifluorotoluene	119		"	100		119	65-135			

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Extractable Petroleum Hydrocarbons by 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051230 - EPA 3510C GC

Blank (1051230-BLK1)

Prepared: 05/12/21 Analyzed: 05/14/21

C13-C28 (DRO)	ND	0.050	mg/l							
C29-C40 (MORO)	ND	0.10	"							
Surrogate: <i>p</i> -Terphenyl	113		"	100		113	65-135			

LCS (1051230-BS1)

Prepared: 05/12/21 Analyzed: 05/14/21

C13-C28 (DRO)	7.87	0.050	mg/l	10.0		78.7	75-125			
Surrogate: <i>p</i> -Terphenyl	129		"	100		129	65-135			

LCS Dup (1051230-BSD1)

Prepared: 05/12/21 Analyzed: 05/13/21

C13-C28 (DRO)	7.58	0.050	mg/l	10.0		75.8	75-125	3.73	20	
Surrogate: <i>p</i> -Terphenyl	95.2		"	100		95.2	65-135			

Batch 1051231 - EPA 3550B GC

Blank (1051231-BLK1)

Prepared: 05/12/21 Analyzed: 05/15/21

C13-C28 (DRO)	ND	10	mg/kg							
C29-C40 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	123		"	100		123	65-135			

LCS (1051231-BS1)

Prepared: 05/12/21 Analyzed: 05/15/21

C13-C28 (DRO)	440	10	mg/kg	510		86.3	75-125			
Surrogate: <i>p</i> -Terphenyl	119		"	100		119	65-135			

LCS Dup (1051231-BSD1)

Prepared: 05/12/21 Analyzed: 05/15/21

C13-C28 (DRO)	430	10	mg/kg	505		85.8	75-125	1.60	20	
Surrogate: <i>p</i> -Terphenyl	111		"	100		111	65-135			

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Extractable Petroleum Hydrocarbons by 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051238 - EPA 3550B GC

Blank (1051238-BLK1)

Prepared: 05/12/21 Analyzed: 05/16/21

C13-C28 (DRO)	ND	10	mg/kg
C29-C40 (MORO)	ND	10	"

Surrogate: <i>p</i> -Terphenyl	115	"	100	115	65-135
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LCS (1051238-BS1)

Prepared: 05/12/21 Analyzed: 05/16/21

C13-C28 (DRO)	430	10	mg/kg	505	85.9	75-125
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Surrogate: <i>p</i> -Terphenyl	115	"	100	115	65-135
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LCS Dup (1051238-BSD1)

Prepared: 05/12/21 Analyzed: 05/16/21

C13-C28 (DRO)	440	10	mg/kg	510	86.4	75-125	1.62	20
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Surrogate: <i>p</i> -Terphenyl	114	"	100	114	65-135
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051228 - EPA 3050B

Blank (1051228-BLK1)

Prepared: 05/12/21 Analyzed: 05/13/21

Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	5.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	5.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							

LCS (1051228-BS1)

Prepared: 05/12/21 Analyzed: 05/13/21

Antimony	96.4	3.0	mg/kg	100	96.4	75-125
Silver	105	2.0	"	100	105	75-125
Arsenic	96.5	5.0	"	100	96.5	75-125
Barium	97.9	1.0	"	100	97.9	75-125
Beryllium	105	1.0	"	100	105	75-125
Cadmium	97.3	2.0	"	100	97.3	75-125
Chromium	98.0	2.0	"	100	98.0	75-125
Cobalt	98.2	2.0	"	100	98.2	75-125
Copper	101	1.0	"	100	101	75-125
Lead	97.0	3.0	"	100	97.0	75-125
Molybdenum	97.5	5.0	"	100	97.5	75-125
Nickel	97.3	2.0	"	100	97.3	75-125
Selenium	98.0	5.0	"	100	98.0	75-125
Thallium	96.9	5.0	"	100	96.9	75-125
Vanadium	97.4	5.0	"	100	97.4	75-125
Zinc	95.9	1.0	"	100	95.9	75-125

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051228 - EPA 3050B

Matrix Spike (1051228-MS1)		Source: T211590-01			Prepared: 05/12/21		Analyzed: 05/13/21			
Antimony	18.4	3.0	mg/kg	91.7	ND	20.0	75-125			QM-05
Silver	59.3	2.0	"	91.7	ND	64.6	75-125			QM-05
Arsenic	55.0	5.0	"	91.7	ND	59.9	75-125			QM-05
Barium	110	1.0	"	91.7	59.3	54.8	75-125			QM-05
Beryllium	55.8	1.0	"	91.7	ND	60.9	75-125			QM-05
Cadmium	53.2	2.0	"	91.7	0.361	57.5	75-125			QM-05
Chromium	62.1	2.0	"	91.7	10.4	56.3	75-125			QM-05
Cobalt	55.5	2.0	"	91.7	5.93	54.0	75-125			QM-05
Copper	61.6	1.0	"	91.7	8.49	57.9	75-125			QM-05
Lead	53.7	3.0	"	91.7	2.79	55.4	75-125			QM-05
Molybdenum	52.2	5.0	"	91.7	0.308	56.5	75-125			QM-05
Nickel	54.9	2.0	"	91.7	6.68	52.6	75-125			QM-05
Selenium	50.5	5.0	"	91.7	ND	55.1	75-125			QM-05
Thallium	48.9	5.0	"	91.7	ND	53.3	75-125			QM-05
Vanadium	76.6	5.0	"	91.7	24.7	56.6	75-125			QM-05
Zinc	83.7	1.0	"	91.7	32.4	55.9	75-125			QM-05

Matrix Spike Dup (1051228-MSD1)		Source: T211590-01			Prepared: 05/12/21		Analyzed: 05/13/21			
Antimony	27.2	3.0	mg/kg	98.0	ND	27.7	75-125	38.6	20	QM-05
Silver	73.2	2.0	"	98.0	ND	74.7	75-125	21.1	20	QM-05
Arsenic	68.5	5.0	"	98.0	ND	69.9	75-125	21.9	20	QM-05
Barium	138	1.0	"	98.0	59.3	80.6	75-125	23.3	20	QM-05
Beryllium	69.9	1.0	"	98.0	ND	71.3	75-125	22.3	20	QM-05
Cadmium	65.3	2.0	"	98.0	0.361	66.3	75-125	20.6	20	QM-05
Chromium	78.2	2.0	"	98.0	10.4	69.1	75-125	22.9	20	QM-05
Cobalt	70.7	2.0	"	98.0	5.93	66.0	75-125	24.1	20	QM-05
Copper	77.2	1.0	"	98.0	8.49	70.1	75-125	22.5	20	QM-05
Lead	66.4	3.0	"	98.0	2.79	64.9	75-125	21.3	20	QM-05
Molybdenum	66.8	5.0	"	98.0	0.308	67.8	75-125	24.5	20	QM-05
Nickel	69.7	2.0	"	98.0	6.68	64.3	75-125	23.7	20	QM-05
Selenium	64.5	5.0	"	98.0	ND	65.8	75-125	24.3	20	QM-05
Thallium	59.6	5.0	"	98.0	ND	60.8	75-125	19.7	20	QM-05
Vanadium	96.6	5.0	"	98.0	24.7	73.3	75-125	23.0	20	QM-05
Zinc	102	1.0	"	98.0	32.4	70.9	75-125	19.6	20	QM-05

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051236 - EPA 3050B

Blank (1051236-BLK1)

Prepared: 05/12/21 Analyzed: 05/13/21

Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	5.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	5.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							

LCS (1051236-BS1)

Prepared: 05/12/21 Analyzed: 05/13/21

Antimony	97.5	3.0	mg/kg	100		97.5	75-125
Silver	107	2.0	"	100		107	75-125
Arsenic	97.4	5.0	"	100		97.4	75-125
Barium	99.0	1.0	"	100		99.0	75-125
Beryllium	108	1.0	"	100		108	75-125
Cadmium	98.8	2.0	"	100		98.8	75-125
Chromium	99.2	2.0	"	100		99.2	75-125
Cobalt	99.1	2.0	"	100		99.1	75-125
Copper	102	1.0	"	100		102	75-125
Lead	99.4	3.0	"	100		99.4	75-125
Molybdenum	99.9	5.0	"	100		99.9	75-125
Nickel	98.3	2.0	"	100		98.3	75-125
Selenium	100	5.0	"	100		100	75-125
Thallium	99.7	5.0	"	100		99.7	75-125
Vanadium	99.0	5.0	"	100		99.0	75-125
Zinc	97.1	1.0	"	100		97.1	75-125

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051236 - EPA 3050B

Matrix Spike (1051236-MS1)		Source: T211590-23		Prepared: 05/12/21		Analyzed: 05/13/21				
Antimony	32.9	3.0	mg/kg	97.1	ND	33.9	75-125			QM-05
Silver	75.1	2.0	"	97.1	ND	77.4	75-125			
Arsenic	74.4	5.0	"	97.1	ND	76.6	75-125			
Barium	118	1.0	"	97.1	42.0	78.4	75-125			
Beryllium	79.3	1.0	"	97.1	ND	81.6	75-125			
Cadmium	68.1	2.0	"	97.1	0.328	69.8	75-125			QM-05
Chromium	80.0	2.0	"	97.1	7.89	74.3	75-125			QM-05
Cobalt	70.5	2.0	"	97.1	3.83	68.7	75-125			QM-05
Copper	83.4	1.0	"	97.1	9.93	75.6	75-125			
Lead	74.8	3.0	"	97.1	7.16	69.7	75-125			QM-05
Molybdenum	70.4	5.0	"	97.1	0.347	72.1	75-125			QM-05
Nickel	72.4	2.0	"	97.1	5.49	68.9	75-125			QM-05
Selenium	67.8	5.0	"	97.1	ND	69.9	75-125			QM-05
Thallium	64.4	5.0	"	97.1	ND	66.4	75-125			QM-05
Vanadium	93.7	5.0	"	97.1	18.2	77.8	75-125			
Zinc	109	1.0	"	97.1	33.9	77.6	75-125			

Matrix Spike Dup (1051236-MSD1)		Source: T211590-23		Prepared: 05/12/21		Analyzed: 05/13/21				
Antimony	32.9	3.0	mg/kg	99.0	ND	33.3	75-125	0.0116	20	QM-05
Silver	75.6	2.0	"	99.0	ND	76.4	75-125	0.631	20	
Arsenic	74.8	5.0	"	99.0	ND	75.6	75-125	0.580	20	
Barium	124	1.0	"	99.0	42.0	83.3	75-125	5.26	20	
Beryllium	79.9	1.0	"	99.0	ND	80.7	75-125	0.777	20	
Cadmium	68.4	2.0	"	99.0	0.328	68.8	75-125	0.457	20	QM-05
Chromium	80.1	2.0	"	99.0	7.89	72.9	75-125	0.0850	20	QM-05
Cobalt	71.3	2.0	"	99.0	3.83	68.1	75-125	1.07	20	QM-05
Copper	84.6	1.0	"	99.0	9.93	75.4	75-125	1.47	20	
Lead	75.2	3.0	"	99.0	7.16	68.7	75-125	0.530	20	QM-05
Molybdenum	70.7	5.0	"	99.0	0.347	71.0	75-125	0.392	20	QM-05
Nickel	72.5	2.0	"	99.0	5.49	67.7	75-125	0.170	20	QM-05
Selenium	68.2	5.0	"	99.0	ND	68.9	75-125	0.504	20	QM-05
Thallium	64.4	5.0	"	99.0	ND	65.1	75-125	0.000947	20	QM-05
Vanadium	95.6	5.0	"	99.0	18.2	78.2	75-125	1.96	20	
Zinc	112	1.0	"	99.0	33.9	79.0	75-125	2.64	20	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051339 - EPA 3010A

Blank (1051339-BLK1)

Prepared: 05/13/21 Analyzed: 05/20/21

Antimony	ND	50	ug/l
Silver	ND	50	"
Arsenic	ND	50	"
Barium	ND	50	"
Beryllium	ND	50	"
Cadmium	ND	50	"
Chromium	ND	50	"
Cobalt	ND	50	"
Copper	ND	50	"
Lead	ND	50	"
Molybdenum	ND	50	"
Nickel	ND	50	"
Selenium	ND	50	"
Thallium	ND	50	"
Vanadium	ND	50	"
Zinc	ND	50	"

LCS (1051339-BS1)

Prepared: 05/13/21 Analyzed: 05/20/21

Antimony	527	50	ug/l	500	105	75-125
Silver	473	50	"	500	94.5	75-125
Arsenic	537	50	"	500	107	75-125
Barium	526	50	"	500	105	75-125
Beryllium	514	50	"	500	103	75-125
Cadmium	518	50	"	500	104	75-125
Chromium	527	50	"	500	105	75-125
Cobalt	527	50	"	500	105	75-125
Copper	540	50	"	500	108	75-125
Lead	528	50	"	500	106	75-125
Molybdenum	518	50	"	500	104	75-125
Nickel	525	50	"	500	105	75-125
Selenium	524	50	"	500	105	75-125
Thallium	535	50	"	500	107	75-125
Vanadium	528	50	"	500	106	75-125
Zinc	515	50	"	500	103	75-125

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051339 - EPA 3010A

Matrix Spike (1051339-MS1)	Source: T211590-18			Prepared: 05/13/21		Analyzed: 05/20/21				
Antimony	465	50	ug/l	500	ND	92.9	75-125			
Silver	411	50	"	500	ND	82.2	75-125			
Arsenic	564	50	"	500	ND	113	75-125			
Barium	665	50	"	500	182	96.7	75-125			
Beryllium	492	50	"	500	ND	98.5	75-125			
Cadmium	480	50	"	500	ND	96.0	75-125			
Chromium	505	50	"	500	ND	101	75-125			
Cobalt	472	50	"	500	ND	94.4	75-125			
Copper	502	50	"	500	27.7	94.8	75-125			
Lead	471	50	"	500	ND	94.2	75-125			
Molybdenum	498	50	"	500	ND	99.6	75-125			
Nickel	455	50	"	500	ND	91.0	75-125			
Selenium	524	50	"	500	ND	105	75-125			
Thallium	443	50	"	500	ND	88.7	75-125			
Vanadium	574	50	"	500	61.5	103	75-125			
Zinc	1080	50	"	500	601	96.1	75-125			

Matrix Spike Dup (1051339-MSD1)	Source: T211590-18			Prepared: 05/13/21		Analyzed: 05/20/21				
Antimony	471	50	ug/l	500	ND	94.3	75-125	1.47	20	
Silver	446	50	"	500	ND	89.1	75-125	8.05	20	
Arsenic	573	50	"	500	ND	115	75-125	1.51	20	
Barium	682	50	"	500	182	100	75-125	2.48	20	
Beryllium	503	50	"	500	ND	101	75-125	2.19	20	
Cadmium	489	50	"	500	ND	97.7	75-125	1.80	20	
Chromium	516	50	"	500	ND	103	75-125	2.07	20	
Cobalt	484	50	"	500	ND	96.7	75-125	2.43	20	
Copper	509	50	"	500	27.7	96.2	75-125	1.37	20	
Lead	484	50	"	500	ND	96.7	75-125	2.64	20	
Molybdenum	509	50	"	500	ND	102	75-125	2.24	20	
Nickel	463	50	"	500	ND	92.6	75-125	1.74	20	
Selenium	533	50	"	500	ND	107	75-125	1.79	20	
Thallium	449	50	"	500	ND	89.9	75-125	1.35	20	
Vanadium	582	50	"	500	61.5	104	75-125	1.44	20	
Zinc	1090	50	"	500	601	98.5	75-125	1.10	20	

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Jeff Lee, Project Manager



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051229 - EPA 7471A Soil

Blank (1051229-BLK1)				Prepared: 05/12/21 Analyzed: 05/13/21						
Mercury	ND	0.10	mg/kg							
LCS (1051229-BS1)				Prepared: 05/12/21 Analyzed: 05/13/21						
Mercury	0.344	0.10	mg/kg	0.397		86.7	80-120			
Matrix Spike (1051229-MS1)				Source: T211590-01 Prepared: 05/12/21 Analyzed: 05/13/21						
Mercury	0.377	0.10	mg/kg	0.417	ND	90.6	75-125			
Matrix Spike Dup (1051229-MSD1)				Source: T211590-01 Prepared: 05/12/21 Analyzed: 05/13/21						
Mercury	0.364	0.10	mg/kg	0.403	ND	90.4	75-125	3.52	20	

Batch 1051237 - EPA 7471A Soil

Blank (1051237-BLK1)				Prepared: 05/12/21 Analyzed: 05/13/21						
Mercury	ND	0.10	mg/kg							
LCS (1051237-BS1)				Prepared: 05/12/21 Analyzed: 05/13/21						
Mercury	0.387	0.10	mg/kg	0.417		92.8	80-120			
Matrix Spike (1051237-MS1)				Source: T211590-23 Prepared: 05/12/21 Analyzed: 05/13/21						
Mercury	0.402	0.10	mg/kg	0.410	ND	98.0	75-125			
Matrix Spike Dup (1051237-MSD1)				Source: T211590-23 Prepared: 05/12/21 Analyzed: 05/13/21						
Mercury	0.389	0.10	mg/kg	0.397	ND	98.1	75-125	3.10	20	

Batch 1051341 - EPA 7470A Water

Blank (1051341-BLK1)				Prepared: 05/13/21 Analyzed: 05/17/21						
Mercury	ND	0.50	ug/l							

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051341 - EPA 7470A Water

LCS (1051341-BS1)

Prepared: 05/13/21 Analyzed: 05/17/21

Mercury	6.80	0.50	ug/l	7.50		90.6	80-120			
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Matrix Spike (1051341-MS1)

Source: T211590-18

Prepared: 05/13/21 Analyzed: 05/17/21

Mercury	6.73	0.50	ug/l	7.50	0.0486	89.0	75-125			
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Matrix Spike Dup (1051341-MSD1)

Source: T211590-18

Prepared: 05/13/21 Analyzed: 05/17/21

Mercury	6.66	0.50	ug/l	7.50	0.0486	88.1	75-125	1.05	20	
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051233 - EPA 3550C ECD/GCMS

Blank (1051233-BLK1)

Prepared: 05/12/21 Analyzed: 05/13/21

alpha-BHC	ND	5.0	ug/kg							
gamma-BHC (Lindane)	ND	5.0	"							
beta-BHC	ND	5.0	"							
delta-BHC	ND	5.0	"							
Heptachlor	ND	5.0	"							
Aldrin	ND	5.0	"							
Heptachlor epoxide	ND	5.0	"							
gamma-Chlordane	ND	5.0	"							
alpha-Chlordane	ND	5.0	"							
Endosulfan I	ND	5.0	"							
4,4'-DDE	ND	5.0	"							
Dieldrin	ND	5.0	"							
Endrin	ND	5.0	"							
4,4'-DDD	ND	5.0	"							
Endosulfan II	ND	5.0	"							
4,4'-DDT	ND	5.0	"							
Endrin aldehyde	ND	5.0	"							
Endosulfan sulfate	ND	5.0	"							
Methoxychlor	ND	5.0	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	8.49		"	10.1		84.0	35-140			
Surrogate: Decachlorobiphenyl	12.9		"	10.1		128	35-140			

LCS (1051233-BS1)

Prepared: 05/12/21 Analyzed: 05/13/21

gamma-BHC (Lindane)	45.1	5.0	ug/kg	40.4		112	40-120			
Heptachlor	45.1	5.0	"	40.4		112	40-120			
Aldrin	32.4	5.0	"	40.4		80.3	40-120			
Dieldrin	48.1	5.0	"	40.4		119	40-120			
Endrin	47.0	5.0	"	40.4		116	40-120			
4,4'-DDT	48.1	5.0	"	40.4		119	33-147			
Surrogate: Tetrachloro-meta-xylene	8.59		"	10.1		85.0	35-140			
Surrogate: Decachlorobiphenyl	13.1		"	10.1		129	35-140			

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051233 - EPA 3550C ECD/GCMS

LCS Dup (1051233-BSD1)

Prepared: 05/12/21 Analyzed: 05/13/21

gamma-BHC (Lindane)	37.4	5.0	ug/kg	40.0		93.5	40-120	17.8	30	
Heptachlor	37.0	5.0	"	40.0		92.6	40-120	18.6	30	
Aldrin	25.4	5.0	"	40.0		63.5	40-120	23.3	30	
Dieldrin	38.7	5.0	"	40.0		96.7	40-120	20.6	30	
Endrin	38.1	5.0	"	40.0		95.2	40-120	20.0	30	
4,4'-DDT	38.2	5.0	"	40.0		95.4	33-147	21.9	30	
Surrogate: Tetrachloro-meta-xylene	7.15		"	10.0		71.5	35-140			
Surrogate: Decachlorobiphenyl	11.4		"	10.0		114	35-140			

Batch 1051239 - EPA 3550C ECD/GCMS

Blank (1051239-BLK1)

Prepared: 05/12/21 Analyzed: 05/17/21

alpha-BHC	ND	5.0	ug/kg							
gamma-BHC (Lindane)	ND	5.0	"							
beta-BHC	ND	5.0	"							
delta-BHC	ND	5.0	"							
Heptachlor	ND	5.0	"							
Aldrin	ND	5.0	"							
Heptachlor epoxide	ND	5.0	"							
gamma-Chlordane	ND	5.0	"							
alpha-Chlordane	ND	5.0	"							
Endosulfan I	ND	5.0	"							
4,4'-DDE	ND	5.0	"							
Dieldrin	ND	5.0	"							
Endrin	ND	5.0	"							
4,4'-DDD	ND	5.0	"							
Endosulfan II	ND	5.0	"							
4,4'-DDT	ND	5.0	"							
Endrin aldehyde	ND	5.0	"							
Endosulfan sulfate	ND	5.0	"							
Methoxychlor	ND	5.0	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	8.12		"	10.1		80.4	35-140			
Surrogate: Decachlorobiphenyl	12.8		"	10.1		127	35-140			

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051239 - EPA 3550C ECD/GCMS

LCS (1051239-BS1)

Prepared: 05/12/21 Analyzed: 05/17/21

gamma-BHC (Lindane)	35.4	5.0	ug/kg	40.0		88.6	40-120			
Heptachlor	36.2	5.0	"	40.0		90.6	40-120			
Aldrin	25.3	5.0	"	40.0		63.3	40-120			
Dieldrin	37.4	5.0	"	40.0		93.4	40-120			
Endrin	37.5	5.0	"	40.0		93.7	40-120			
4,4'-DDT	37.3	5.0	"	40.0		93.3	33-147			
Surrogate: Tetrachloro-meta-xylene	7.18		"	10.0		71.8	35-140			
Surrogate: Decachlorobiphenyl	11.5		"	10.0		115	35-140			

LCS Dup (1051239-BS1)

Prepared: 05/12/21 Analyzed: 05/17/21

gamma-BHC (Lindane)	34.9	5.0	ug/kg	39.6		88.1	40-120	0.538	30	
Heptachlor	35.7	5.0	"	39.6		90.2	40-120	0.389	30	
Aldrin	24.7	5.0	"	39.6		62.5	40-120	1.34	30	
Dieldrin	36.7	5.0	"	39.6		92.8	40-120	0.684	30	
Endrin	37.0	5.0	"	39.6		93.4	40-120	0.333	30	
4,4'-DDT	37.2	5.0	"	39.6		94.0	33-147	0.668	30	
Surrogate: Tetrachloro-meta-xylene	7.12		"	9.90		71.9	35-140			
Surrogate: Decachlorobiphenyl	11.5		"	9.90		116	35-140			

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051232 - EPA 5030 GCMS

Blank (1051232-BLK1)

Prepared & Analyzed: 05/12/21

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	2.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051232 - EPA 5030 GCMS

Blank (1051232-BLK1)

Prepared & Analyzed: 05/12/21

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	0.50	"							

Surrogate: 4-Bromofluorobenzene	20.4		"	20.0		102	76.7-116
Surrogate: Dibromofluoromethane	19.9		"	20.0		99.6	49.2-135
Surrogate: Toluene-d8	20.1		"	20.0		100	84.7-108

LCS (1051232-BS1)

Prepared & Analyzed: 05/12/21

Bromobenzene	21.2	1.0	ug/l	20.0		106	70-130
Bromochloromethane	21.4	1.0	"	20.0		107	70-130
Bromodichloromethane	20.2	1.0	"	20.0		101	70-130
Bromoform	20.1	1.0	"	20.0		100	70-130
Bromomethane	15.4	1.0	"	20.0		76.8	70-130
n-Butylbenzene	18.8	1.0	"	20.0		93.8	70-130
sec-Butylbenzene	21.5	1.0	"	20.0		108	70-130
tert-Butylbenzene	19.9	1.0	"	20.0		99.4	70-130

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051232 - EPA 5030 GCMS

LCS (1051232-BS1)

Prepared & Analyzed: 05/12/21

Carbon tetrachloride	20.5	0.50	ug/l	20.0		102	70-130			
Chlorobenzene	21.2	1.0	"	20.0		106	81.1-121			
Chloroethane	16.5	1.0	"	20.0		82.4	70-130			
Chloroform	20.2	1.0	"	20.0		101	70-130			
Chloromethane	16.0	1.0	"	20.0		80.0	70-130			
2-Chlorotoluene	20.4	1.0	"	20.0		102	70-130			
4-Chlorotoluene	20.0	1.0	"	20.0		100	70-130			
Dibromochloromethane	20.4	1.0	"	20.0		102	70-130			
1,2-Dibromo-3-chloropropane	17.7	2.0	"	20.0		88.4	70-130			
1,2-Dibromoethane (EDB)	20.5	1.0	"	20.0		103	70-130			
Dibromomethane	20.7	1.0	"	20.0		104	70-130			
1,2-Dichlorobenzene	19.0	1.0	"	20.0		94.8	70-130			
1,3-Dichlorobenzene	19.0	1.0	"	20.0		94.8	70-130			
1,4-Dichlorobenzene	19.0	1.0	"	20.0		94.9	70-130			
Dichlorodifluoromethane	18.6	0.50	"	20.0		92.8	70-130			
1,1-Dichloroethane	19.5	1.0	"	20.0		97.6	70-130			
1,2-Dichloroethane	19.3	0.50	"	20.0		96.5	70-130			
1,1-Dichloroethene	19.0	1.0	"	20.0		95.0	69.9-130			
cis-1,2-Dichloroethene	20.7	1.0	"	20.0		103	70-130			
trans-1,2-Dichloroethene	20.5	1.0	"	20.0		102	70-130			
1,2-Dichloropropane	20.0	1.0	"	20.0		100	70-130			
1,3-Dichloropropane	19.3	1.0	"	20.0		96.6	70-130			
2,2-Dichloropropane	18.4	1.0	"	20.0		91.9	70-130			
1,1-Dichloropropene	19.8	1.0	"	20.0		99.0	70-130			
cis-1,3-Dichloropropene	20.1	0.50	"	20.0		101	70-130			
trans-1,3-Dichloropropene	18.8	0.50	"	20.0		94.0	70-130			
Hexachlorobutadiene	19.0	1.0	"	20.0		95.2	70-130			
Isopropylbenzene	20.9	1.0	"	20.0		105	70-130			
p-Isopropyltoluene	19.0	1.0	"	20.0		94.9	70-130			
Methylene chloride	20.0	5.0	"	20.0		100	70-130			
Naphthalene	19.3	1.0	"	20.0		96.4	70-130			
n-Propylbenzene	21.2	1.0	"	20.0		106	70-130			
Styrene	20.8	1.0	"	20.0		104	70-130			
1,1,2,2-Tetrachloroethane	20.9	1.0	"	20.0		105	70-130			
1,1,1,2-Tetrachloroethane	20.8	1.0	"	20.0		104	70-130			
Tetrachloroethene	21.7	1.0	"	20.0		108	70-130			

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Jeff Lee, Project Manager



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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051232 - EPA 5030 GCMS

LCS (1051232-BS1)

Prepared & Analyzed: 05/12/21

1,2,3-Trichlorobenzene	20.4	1.0	ug/l	20.0		102	70-130			
1,2,4-Trichlorobenzene	19.7	1.0	"	20.0		98.7	70-130			
1,1,2-Trichloroethane	21.2	1.0	"	20.0		106	70-130			
1,1,1-Trichloroethane	19.8	1.0	"	20.0		99.0	70-130			
Trichloroethene	22.2	1.0	"	20.0		111	84.9-120			
Trichlorofluoromethane	17.3	1.0	"	20.0		86.6	70-130			
1,2,3-Trichloropropane	19.8	1.0	"	20.0		98.8	70-130			
1,3,5-Trimethylbenzene	21.0	1.0	"	20.0		105	70-130			
1,2,4-Trimethylbenzene	20.8	1.0	"	20.0		104	70-130			
Vinyl chloride	17.0	1.0	"	20.0		85.2	70-130			
Benzene	20.4	0.50	"	20.0		102	78.1-123			
Toluene	20.4	0.50	"	20.0		102	79.6-123			
Ethylbenzene	20.1	0.50	"	20.0		101	70-130			
m,p-Xylene	41.8	2.0	"	40.0		104	70-130			
o-Xylene	20.7	0.50	"	20.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	20.8		"	20.0		104	76.7-116			
Surrogate: Dibromofluoromethane	20.2		"	20.0		101	49.2-135			
Surrogate: Toluene-d8	20.2		"	20.0		101	84.7-108			

LCS Dup (1051232-BS1)

Prepared & Analyzed: 05/12/21

Bromobenzene	22.0	1.0	ug/l	20.0		110	70-130	3.57	20	
Bromochloromethane	22.5	1.0	"	20.0		113	70-130	5.10	20	
Bromodichloromethane	21.1	1.0	"	20.0		105	70-130	4.32	20	
Bromoform	21.2	1.0	"	20.0		106	70-130	5.43	20	
Bromomethane	14.1	1.0	"	20.0		70.4	70-130	8.69	20	
n-Butylbenzene	19.6	1.0	"	20.0		97.8	70-130	4.18	20	
sec-Butylbenzene	22.1	1.0	"	20.0		111	70-130	2.75	20	
tert-Butylbenzene	20.2	1.0	"	20.0		101	70-130	1.69	20	
Carbon tetrachloride	20.6	0.50	"	20.0		103	70-130	0.730	20	
Chlorobenzene	21.9	1.0	"	20.0		109	81.1-121	3.02	20	
Chloroethane	17.0	1.0	"	20.0		84.8	70-130	2.87	20	
Chloroform	20.8	1.0	"	20.0		104	70-130	2.87	20	
Chloromethane	16.5	1.0	"	20.0		82.6	70-130	3.26	20	
2-Chlorotoluene	20.9	1.0	"	20.0		104	70-130	2.33	20	
4-Chlorotoluene	21.1	1.0	"	20.0		106	70-130	5.15	20	
Dibromochloromethane	21.5	1.0	"	20.0		107	70-130	4.96	20	

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Jeff Lee, Project Manager



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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051232 - EPA 5030 GCMS

LCS Dup (1051232-BSD1)

Prepared & Analyzed: 05/12/21

1,2-Dibromo-3-chloropropane	19.4	2.0	ug/l	20.0		97.0	70-130	9.23	20	
1,2-Dibromoethane (EDB)	21.6	1.0	"	20.0		108	70-130	5.04	20	
Dibromomethane	22.1	1.0	"	20.0		110	70-130	6.40	20	
1,2-Dichlorobenzene	19.8	1.0	"	20.0		99.2	70-130	4.59	20	
1,3-Dichlorobenzene	19.8	1.0	"	20.0		99.2	70-130	4.64	20	
1,4-Dichlorobenzene	19.9	1.0	"	20.0		99.5	70-130	4.73	20	
Dichlorodifluoromethane	18.8	0.50	"	20.0		93.8	70-130	1.07	20	
1,1-Dichloroethane	19.9	1.0	"	20.0		99.4	70-130	1.78	20	
1,2-Dichloroethane	20.6	0.50	"	20.0		103	70-130	6.32	20	
1,1-Dichloroethene	19.1	1.0	"	20.0		95.5	69.9-130	0.472	20	
cis-1,2-Dichloroethene	21.5	1.0	"	20.0		108	70-130	3.93	20	
trans-1,2-Dichloroethene	20.8	1.0	"	20.0		104	70-130	1.74	20	
1,2-Dichloropropane	21.1	1.0	"	20.0		105	70-130	5.21	20	
1,3-Dichloropropane	20.4	1.0	"	20.0		102	70-130	5.48	20	
2,2-Dichloropropane	18.6	1.0	"	20.0		93.0	70-130	1.24	20	
1,1-Dichloropropene	20.2	1.0	"	20.0		101	70-130	1.75	20	
cis-1,3-Dichloropropene	21.2	0.50	"	20.0		106	70-130	5.13	20	
trans-1,3-Dichloropropene	20.3	0.50	"	20.0		101	70-130	7.52	20	
Hexachlorobutadiene	19.3	1.0	"	20.0		96.4	70-130	1.25	20	
Isopropylbenzene	21.2	1.0	"	20.0		106	70-130	1.14	20	
p-Isopropyltoluene	19.5	1.0	"	20.0		97.6	70-130	2.75	20	
Methylene chloride	21.0	5.0	"	20.0		105	70-130	4.53	20	
Naphthalene	21.3	1.0	"	20.0		107	70-130	10.0	20	
n-Propylbenzene	21.6	1.0	"	20.0		108	70-130	2.29	20	
Styrene	21.4	1.0	"	20.0		107	70-130	2.75	20	
1,1,2,2-Tetrachloroethane	22.9	1.0	"	20.0		114	70-130	8.81	20	
1,1,1,2-Tetrachloroethane	21.2	1.0	"	20.0		106	70-130	1.96	20	
Tetrachloroethene	21.5	1.0	"	20.0		108	70-130	0.556	20	
1,2,3-Trichlorobenzene	22.0	1.0	"	20.0		110	70-130	7.45	20	
1,2,4-Trichlorobenzene	21.0	1.0	"	20.0		105	70-130	6.23	20	
1,1,2-Trichloroethane	22.6	1.0	"	20.0		113	70-130	6.49	20	
1,1,1-Trichloroethane	20.1	1.0	"	20.0		101	70-130	1.65	20	
Trichloroethene	22.6	1.0	"	20.0		113	84.9-120	1.70	20	
Trichlorofluoromethane	17.2	1.0	"	20.0		86.0	70-130	0.695	20	
1,2,3-Trichloropropane	22.0	1.0	"	20.0		110	70-130	10.5	20	
1,3,5-Trimethylbenzene	21.5	1.0	"	20.0		107	70-130	2.45	20	

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Jeff Lee, Project Manager



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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051232 - EPA 5030 GCMS

LCS Dup (1051232-BSD1)

Prepared & Analyzed: 05/12/21

1,2,4-Trimethylbenzene	21.5	1.0	ug/l	20.0		108	70-130	3.17	20	
Vinyl chloride	17.0	1.0	"	20.0		85.2	70-130	0.117	20	
Benzene	21.0	0.50	"	20.0		105	78.1-123	2.95	20	
Toluene	21.2	0.50	"	20.0		106	79.6-123	3.90	20	
Ethylbenzene	20.5	0.50	"	20.0		103	70-130	1.92	20	
m,p-Xylene	42.4	2.0	"	40.0		106	70-130	1.57	20	
o-Xylene	21.0	0.50	"	20.0		105	70-130	1.54	20	
Surrogate: 4-Bromofluorobenzene	20.7		"	20.0		104	76.7-116			
Surrogate: Dibromofluoromethane	20.1		"	20.0		101	49.2-135			
Surrogate: Toluene-d8	20.2		"	20.0		101	84.7-108			

Batch 1051240 - EPA 5035 GCMS

Blank (1051240-BLK1)

Prepared: 05/12/21 Analyzed: 05/13/21

Bromobenzene	ND	2.5	ug/kg
Bromochloromethane	ND	2.5	"
Bromodichloromethane	ND	2.5	"
Bromoform	ND	2.5	"
Bromomethane	ND	2.5	"
n-Butylbenzene	ND	2.5	"
sec-Butylbenzene	ND	2.5	"
tert-Butylbenzene	ND	2.5	"
Carbon tetrachloride	ND	2.5	"
Chlorobenzene	ND	2.5	"
Chloroethane	ND	2.5	"
Chloroform	ND	2.5	"
Chloromethane	ND	2.5	"
2-Chlorotoluene	ND	2.5	"
4-Chlorotoluene	ND	2.5	"
Dibromochloromethane	ND	2.5	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane (EDB)	ND	2.5	"
Dibromomethane	ND	2.5	"
1,2-Dichlorobenzene	ND	2.5	"
1,3-Dichlorobenzene	ND	2.5	"
1,4-Dichlorobenzene	ND	2.5	"

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Jeff Lee, Project Manager



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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051240 - EPA 5035 GCMS

Blank (1051240-BLK1)

Prepared: 05/12/21 Analyzed: 05/13/21

Dichlorodifluoromethane	ND	2.5	ug/kg
1,1-Dichloroethane	ND	2.5	"
1,2-Dichloroethane	ND	2.5	"
1,1-Dichloroethene	ND	2.5	"
cis-1,2-Dichloroethene	ND	2.5	"
trans-1,2-Dichloroethene	ND	2.5	"
1,2-Dichloropropane	ND	2.5	"
1,3-Dichloropropane	ND	2.5	"
2,2-Dichloropropane	ND	2.5	"
1,1-Dichloropropene	ND	2.5	"
cis-1,3-Dichloropropene	ND	2.5	"
trans-1,3-Dichloropropene	ND	2.5	"
Hexachlorobutadiene	ND	2.5	"
Isopropylbenzene	ND	2.5	"
p-Isopropyltoluene	ND	2.5	"
Methylene chloride	ND	10	"
Naphthalene	ND	2.5	"
n-Propylbenzene	ND	2.5	"
Styrene	ND	2.5	"
1,1,2,2-Tetrachloroethane	ND	2.5	"
1,1,1,2-Tetrachloroethane	ND	2.5	"
Tetrachloroethene	ND	2.5	"
1,2,3-Trichlorobenzene	ND	2.5	"
1,2,4-Trichlorobenzene	ND	2.5	"
1,1,2-Trichloroethane	ND	2.5	"
1,1,1-Trichloroethane	ND	2.5	"
Trichloroethene	ND	2.5	"
Trichlorofluoromethane	ND	2.5	"
1,2,3-Trichloropropane	ND	2.5	"
1,3,5-Trimethylbenzene	ND	2.5	"
1,2,4-Trimethylbenzene	ND	2.5	"
Vinyl chloride	ND	2.5	"
Benzene	ND	2.5	"
Toluene	ND	2.5	"
Ethylbenzene	ND	2.5	"
m,p-Xylene	ND	5.0	"

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Project Manager: Derrick Willis

Reported:
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051240 - EPA 5035 GCMS

Blank (1051240-BLK1)

Prepared: 05/12/21 Analyzed: 05/13/21

o-Xylene	ND	2.5	ug/kg							
Surrogate: Toluene-d8	50.7		"	50.0		101	76.1-127			
Surrogate: 4-Bromofluorobenzene	51.8		"	50.0		104	85.9-114			
Surrogate: Dibromofluoromethane	53.8		"	50.0		108	77.8-142			

LCS (1051240-BS1)

Prepared: 05/12/21 Analyzed: 05/13/21

Bromobenzene	47.7	2.5	ug/kg	50.0		95.4	70-130			
Bromochloromethane	51.8	2.5	"	50.0		104	70-130			
Bromodichloromethane	40.6	2.5	"	50.0		81.1	70-130			
Bromoform	50.5	2.5	"	50.0		101	70-130			
Bromomethane	43.3	2.5	"	50.0		86.6	70-130			
n-Butylbenzene	40.8	2.5	"	50.0		81.5	70-130			
sec-Butylbenzene	36.2	2.5	"	50.0		72.5	70-130			
tert-Butylbenzene	35.0	2.5	"	50.0		70.1	70-130			
Carbon tetrachloride	36.6	2.5	"	50.0		73.1	70-130			
Chlorobenzene	47.0	2.5	"	50.0		93.9	79.1-117			
Chloroethane	50.3	2.5	"	50.0		101	70-130			
Chloroform	44.0	2.5	"	50.0		87.9	70-130			
Chloromethane	43.0	2.5	"	50.0		85.9	70-130			
2-Chlorotoluene	39.0	2.5	"	50.0		78.1	70-130			
4-Chlorotoluene	37.1	2.5	"	50.0		74.3	70-130			
Dibromochloromethane	48.1	2.5	"	50.0		96.3	70-130			
1,2-Dibromo-3-chloropropane	48.2	5.0	"	50.0		96.5	70-130			
1,2-Dibromoethane (EDB)	50.0	2.5	"	50.0		99.9	70-130			
Dibromomethane	46.1	2.5	"	50.0		92.3	70-130			
1,2-Dichlorobenzene	44.7	2.5	"	50.0		89.4	70-130			
1,3-Dichlorobenzene	40.7	2.5	"	50.0		81.4	70-130			
1,4-Dichlorobenzene	41.7	2.5	"	50.0		83.3	70-130			
Dichlorodifluoromethane	41.3	2.5	"	50.0		82.5	70-130			
1,1-Dichloroethane	43.8	2.5	"	50.0		87.7	70-130			
1,2-Dichloroethane	37.7	2.5	"	50.0		75.4	70-130			
1,1-Dichloroethene	50.1	2.5	"	50.0		100	68-126			
cis-1,2-Dichloroethene	49.6	2.5	"	50.0		99.3	70-130			
trans-1,2-Dichloroethene	48.3	2.5	"	50.0		96.6	70-130			
1,2-Dichloropropane	43.8	2.5	"	50.0		87.5	70-130			
1,3-Dichloropropane	50.4	2.5	"	50.0		101	70-130			

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Jeff Lee, Project Manager



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Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051240 - EPA 5035 GCMS

LCS (1051240-BS1)

Prepared: 05/12/21 Analyzed: 05/13/21

2,2-Dichloropropane	35.3	2.5	ug/kg	50.0		70.6	70-130			
1,1-Dichloropropane	39.8	2.5	"	50.0		79.6	70-130			
cis-1,3-Dichloropropene	40.6	2.5	"	50.0		81.3	70-130			
trans-1,3-Dichloropropene	37.0	2.5	"	50.0		74.0	70-130			
Hexachlorobutadiene	37.7	2.5	"	50.0		75.4	70-130			
Isopropylbenzene	40.8	2.5	"	50.0		81.6	70-130			
p-Isopropyltoluene	35.9	2.5	"	50.0		71.8	70-130			
Methylene chloride	47.7	10	"	50.0		95.3	70-130			
Naphthalene	48.6	2.5	"	50.0		97.3	70-130			
n-Propylbenzene	37.5	2.5	"	50.0		75.0	70-130			
Styrene	43.6	2.5	"	50.0		87.2	70-130			
1,1,2,2-Tetrachloroethane	51.6	2.5	"	50.0		103	70-130			
1,1,1,2-Tetrachloroethane	45.4	2.5	"	50.0		90.9	70-130			
Tetrachloroethene	44.9	2.5	"	50.0		89.9	70-130			
1,2,3-Trichlorobenzene	47.0	2.5	"	50.0		94.0	70-130			
1,2,4-Trichlorobenzene	42.7	2.5	"	50.0		85.5	70-130			
1,1,2-Trichloroethane	45.5	2.5	"	50.0		91.0	70-130			
1,1,1-Trichloroethane	39.1	2.5	"	50.0		78.2	70-130			
Trichloroethene	46.4	2.5	"	50.0		92.7	80.6-119			
Trichlorofluoromethane	48.0	2.5	"	50.0		96.0	70-130			
1,2,3-Trichloropropane	48.7	2.5	"	50.0		97.4	70-130			
1,3,5-Trimethylbenzene	38.6	2.5	"	50.0		77.1	70-130			
1,2,4-Trimethylbenzene	38.1	2.5	"	50.0		76.2	70-130			
Vinyl chloride	42.5	2.5	"	50.0		84.9	70-130			
Benzene	45.4	2.5	"	50.0		90.8	79.1-117			
Toluene	40.8	2.5	"	50.0		81.6	79.5-118			
Ethylbenzene	41.7	2.5	"	50.0		83.4	70-130			
m,p-Xylene	84.3	5.0	"	100		84.3	70-130			
o-Xylene	43.5	2.5	"	50.0		87.0	70-130			
Surrogate: Toluene-d8	52.1		"	50.0		104	76.1-127			
Surrogate: 4-Bromofluorobenzene	54.0		"	50.0		108	85.9-114			
Surrogate: Dibromofluoromethane	52.5		"	50.0		105	77.8-142			

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Jeff Lee, Project Manager



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051240 - EPA 5035 GCMS

LCS Dup (1051240-BSD1)

Prepared: 05/12/21 Analyzed: 05/13/21

Bromobenzene	49.6	2.5	ug/kg	50.0		99.1	70-130	3.82	20	
Bromochloromethane	54.9	2.5	"	50.0		110	70-130	5.73	20	
Bromodichloromethane	43.7	2.5	"	50.0		87.5	70-130	7.52	20	
Bromoform	53.7	2.5	"	50.0		107	70-130	6.11	20	
Bromomethane	46.3	2.5	"	50.0		92.6	70-130	6.72	20	
n-Butylbenzene	35.2	2.5	"	50.0		70.3	70-130	14.8	20	
sec-Butylbenzene	39.4	2.5	"	50.0		78.9	70-130	8.48	20	
tert-Butylbenzene	37.0	2.5	"	50.0		73.9	70-130	5.30	20	
Carbon tetrachloride	38.8	2.5	"	50.0		77.6	70-130	5.92	20	
Chlorobenzene	49.7	2.5	"	50.0		99.5	79.1-117	5.77	20	
Chloroethane	53.3	2.5	"	50.0		107	70-130	5.81	20	
Chloroform	47.0	2.5	"	50.0		94.1	70-130	6.73	20	
Chloromethane	44.1	2.5	"	50.0		88.2	70-130	2.60	20	
2-Chlorotoluene	40.2	2.5	"	50.0		80.4	70-130	2.93	20	
4-Chlorotoluene	38.2	2.5	"	50.0		76.5	70-130	2.89	20	
Dibromochloromethane	51.5	2.5	"	50.0		103	70-130	6.82	20	
1,2-Dibromo-3-chloropropane	51.6	5.0	"	50.0		103	70-130	6.81	20	
1,2-Dibromoethane (EDB)	51.9	2.5	"	50.0		104	70-130	3.83	20	
Dibromomethane	50.4	2.5	"	50.0		101	70-130	8.77	20	
1,2-Dichlorobenzene	46.5	2.5	"	50.0		93.1	70-130	4.03	20	
1,3-Dichlorobenzene	43.9	2.5	"	50.0		87.7	70-130	7.45	20	
1,4-Dichlorobenzene	43.7	2.5	"	50.0		87.4	70-130	4.80	20	
Dichlorodifluoromethane	44.3	2.5	"	50.0		88.6	70-130	7.04	20	
1,1-Dichloroethane	45.9	2.5	"	50.0		91.8	70-130	4.59	20	
1,2-Dichloroethane	40.2	2.5	"	50.0		80.4	70-130	6.39	20	
1,1-Dichloroethene	49.9	2.5	"	50.0		99.7	68-126	0.520	20	
cis-1,2-Dichloroethene	51.6	2.5	"	50.0		103	70-130	3.95	20	
trans-1,2-Dichloroethene	51.9	2.5	"	50.0		104	70-130	7.23	20	
1,2-Dichloropropane	46.5	2.5	"	50.0		93.0	70-130	6.03	20	
1,3-Dichloropropane	53.0	2.5	"	50.0		106	70-130	5.05	20	
2,2-Dichloropropane	37.7	2.5	"	50.0		75.4	70-130	6.57	20	
1,1-Dichloropropene	42.4	2.5	"	50.0		84.9	70-130	6.45	20	
cis-1,3-Dichloropropene	43.2	2.5	"	50.0		86.4	70-130	6.15	20	
trans-1,3-Dichloropropene	40.4	2.5	"	50.0		80.7	70-130	8.74	20	
Hexachlorobutadiene	38.2	2.5	"	50.0		76.4	70-130	1.40	20	
Isopropylbenzene	43.4	2.5	"	50.0		86.9	70-130	6.27	20	

SunStar Laboratories, Inc.

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051240 - EPA 5035 GCMS

LCS Dup (1051240-BSD1)

Prepared: 05/12/21 Analyzed: 05/13/21

p-Isopropyltoluene	38.5	2.5	ug/kg	50.0		77.0	70-130	6.96	20	
Methylene chloride	51.1	10	"	50.0		102	70-130	6.98	20	
Naphthalene	51.0	2.5	"	50.0		102	70-130	4.80	20	
n-Propylbenzene	39.7	2.5	"	50.0		79.3	70-130	5.63	20	
Styrene	45.8	2.5	"	50.0		91.6	70-130	4.94	20	
1,1,2,2-Tetrachloroethane	55.2	2.5	"	50.0		110	70-130	6.76	20	
1,1,1,2-Tetrachloroethane	48.5	2.5	"	50.0		97.0	70-130	6.47	20	
Tetrachloroethene	47.1	2.5	"	50.0		94.2	70-130	4.74	20	
1,2,3-Trichlorobenzene	46.8	2.5	"	50.0		93.6	70-130	0.426	20	
1,2,4-Trichlorobenzene	43.3	2.5	"	50.0		86.6	70-130	1.28	20	
1,1,2-Trichloroethane	50.7	2.5	"	50.0		101	70-130	10.8	20	
1,1,1-Trichloroethane	42.0	2.5	"	50.0		84.1	70-130	7.25	20	
Trichloroethene	49.1	2.5	"	50.0		98.3	80.6-119	5.82	20	
Trichlorofluoromethane	50.8	2.5	"	50.0		102	70-130	5.77	20	
1,2,3-Trichloropropane	50.9	2.5	"	50.0		102	70-130	4.52	20	
1,3,5-Trimethylbenzene	40.0	2.5	"	50.0		79.9	70-130	3.62	20	
1,2,4-Trimethylbenzene	39.6	2.5	"	50.0		79.3	70-130	3.99	20	
Vinyl chloride	45.4	2.5	"	50.0		90.7	70-130	6.58	20	
Benzene	46.5	2.5	"	50.0		93.0	79.1-117	2.35	20	
Toluene	42.8	2.5	"	50.0		85.7	79.5-118	4.88	20	
Ethylbenzene	43.5	2.5	"	50.0		87.1	70-130	4.29	20	
m,p-Xylene	87.8	5.0	"	100		87.8	70-130	4.05	20	
o-Xylene	46.7	2.5	"	50.0		93.3	70-130	6.96	20	
Surrogate: Toluene-d8	52.6		"	50.0		105	76.1-127			
Surrogate: 4-Bromofluorobenzene	54.7		"	50.0		109	85.9-114			
Surrogate: Dibromofluoromethane	52.9		"	50.0		106	77.8-142			

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051243 - EPA 5035 GCMS

Blank (1051243-BLK1)

Prepared: 05/12/21 Analyzed: 05/17/21

Bromobenzene	ND	2.5	ug/kg
Bromochloromethane	ND	2.5	"
Bromodichloromethane	ND	2.5	"
Bromoform	ND	2.5	"
Bromomethane	ND	2.5	"
n-Butylbenzene	ND	2.5	"
sec-Butylbenzene	ND	2.5	"
tert-Butylbenzene	ND	2.5	"
Carbon tetrachloride	ND	2.5	"
Chlorobenzene	ND	2.5	"
Chloroethane	ND	2.5	"
Chloroform	ND	2.5	"
Chloromethane	ND	2.5	"
2-Chlorotoluene	ND	2.5	"
4-Chlorotoluene	ND	2.5	"
Dibromochloromethane	ND	2.5	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane (EDB)	ND	2.5	"
Dibromomethane	ND	2.5	"
1,2-Dichlorobenzene	ND	2.5	"
1,3-Dichlorobenzene	ND	2.5	"
1,4-Dichlorobenzene	ND	2.5	"
Dichlorodifluoromethane	ND	2.5	"
1,1-Dichloroethane	ND	2.5	"
1,2-Dichloroethane	ND	2.5	"
1,1-Dichloroethene	ND	2.5	"
cis-1,2-Dichloroethene	ND	2.5	"
trans-1,2-Dichloroethene	ND	2.5	"
1,2-Dichloropropane	ND	2.5	"
1,3-Dichloropropane	ND	2.5	"
2,2-Dichloropropane	ND	2.5	"
1,1-Dichloropropene	ND	2.5	"
cis-1,3-Dichloropropene	ND	2.5	"
trans-1,3-Dichloropropene	ND	2.5	"
Hexachlorobutadiene	ND	2.5	"
Isopropylbenzene	ND	2.5	"

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051243 - EPA 5035 GCMS

Blank (1051243-BLK1)

Prepared: 05/12/21 Analyzed: 05/17/21

p-Isopropyltoluene	ND	2.5	ug/kg							
Methylene chloride	ND	10	"							
Naphthalene	ND	2.5	"							
n-Propylbenzene	ND	2.5	"							
Styrene	ND	2.5	"							
1,1,2,2-Tetrachloroethane	ND	2.5	"							
1,1,1,2-Tetrachloroethane	ND	2.5	"							
Tetrachloroethene	ND	2.5	"							
1,2,3-Trichlorobenzene	ND	2.5	"							
1,2,4-Trichlorobenzene	ND	2.5	"							
1,1,2-Trichloroethane	ND	2.5	"							
1,1,1-Trichloroethane	ND	2.5	"							
Trichloroethene	ND	2.5	"							
Trichlorofluoromethane	ND	2.5	"							
1,2,3-Trichloropropane	ND	2.5	"							
1,3,5-Trimethylbenzene	ND	2.5	"							
1,2,4-Trimethylbenzene	ND	2.5	"							
Vinyl chloride	ND	2.5	"							
Benzene	ND	2.5	"							
Toluene	ND	2.5	"							
Ethylbenzene	ND	2.5	"							
m,p-Xylene	ND	5.0	"							
o-Xylene	ND	2.5	"							

Surrogate: Toluene-d8	47.9		"	50.0		95.8	76.1-127
Surrogate: 4-Bromofluorobenzene	49.3		"	50.0		98.6	85.9-114
Surrogate: Dibromofluoromethane	50.1		"	50.0		100	77.8-142

LCS (1051243-BS1)

Prepared: 05/12/21 Analyzed: 05/17/21

Bromobenzene	56.0	2.5	ug/kg	50.0		112	70-130
Bromochloromethane	60.2	2.5	"	50.0		120	70-130
Bromodichloromethane	46.8	2.5	"	50.0		93.6	70-130
Bromoform	52.7	2.5	"	50.0		105	70-130
Bromomethane	51.8	2.5	"	50.0		104	70-130
n-Butylbenzene	51.6	2.5	"	50.0		103	70-130
sec-Butylbenzene	52.8	2.5	"	50.0		106	70-130
tert-Butylbenzene	47.9	2.5	"	50.0		95.9	70-130

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051243 - EPA 5035 GCMS

LCS (1051243-BS1)

Prepared: 05/12/21 Analyzed: 05/17/21

Carbon tetrachloride	43.1	2.5	ug/kg	50.0		86.2	70-130			
Chlorobenzene	57.3	2.5	"	50.0		115	79.1-117			
Chloroethane	74.8	2.5	"	50.0		150	70-130			QM-12
Chloroform	50.5	2.5	"	50.0		101	70-130			
Chloromethane	48.0	2.5	"	50.0		96.0	70-130			
2-Chlorotoluene	51.3	2.5	"	50.0		103	70-130			
4-Chlorotoluene	49.0	2.5	"	50.0		98.0	70-130			
Dibromochloromethane	50.5	2.5	"	50.0		101	70-130			
1,2-Dibromo-3-chloropropane	49.1	5.0	"	50.0		98.2	70-130			
1,2-Dibromoethane (EDB)	52.2	2.5	"	50.0		104	70-130			
Dibromomethane	51.6	2.5	"	50.0		103	70-130			
1,2-Dichlorobenzene	54.7	2.5	"	50.0		109	70-130			
1,3-Dichlorobenzene	54.4	2.5	"	50.0		109	70-130			
1,4-Dichlorobenzene	54.1	2.5	"	50.0		108	70-130			
Dichlorodifluoromethane	48.3	2.5	"	50.0		96.5	70-130			
1,1-Dichloroethane	51.4	2.5	"	50.0		103	70-130			
1,2-Dichloroethane	39.7	2.5	"	50.0		79.4	70-130			
1,1-Dichloroethene	58.0	2.5	"	50.0		116	68-126			
cis-1,2-Dichloroethene	58.9	2.5	"	50.0		118	70-130			
trans-1,2-Dichloroethene	59.4	2.5	"	50.0		119	70-130			
1,2-Dichloropropane	49.5	2.5	"	50.0		99.1	70-130			
1,3-Dichloropropane	52.6	2.5	"	50.0		105	70-130			
2,2-Dichloropropane	41.8	2.5	"	50.0		83.5	70-130			
1,1-Dichloropropene	47.2	2.5	"	50.0		94.4	70-130			
cis-1,3-Dichloropropene	46.7	2.5	"	50.0		93.3	70-130			
trans-1,3-Dichloropropene	42.2	2.5	"	50.0		84.4	70-130			
Hexachlorobutadiene	53.4	2.5	"	50.0		107	70-130			
Isopropylbenzene	53.3	2.5	"	50.0		107	70-130			
p-Isopropyltoluene	53.0	2.5	"	50.0		106	70-130			
Methylene chloride	55.3	10	"	50.0		111	70-130			
Naphthalene	53.4	2.5	"	50.0		107	70-130			
n-Propylbenzene	53.9	2.5	"	50.0		108	70-130			
Styrene	52.8	2.5	"	50.0		106	70-130			
1,1,2,2-Tetrachloroethane	54.9	2.5	"	50.0		110	70-130			
1,1,1,2-Tetrachloroethane	51.6	2.5	"	50.0		103	70-130			
Tetrachloroethene	57.2	2.5	"	50.0		114	70-130			

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051243 - EPA 5035 GCMS

LCS (1051243-BS1)

Prepared: 05/12/21 Analyzed: 05/17/21

1,2,3-Trichlorobenzene	57.3	2.5	ug/kg	50.0		115	70-130			
1,2,4-Trichlorobenzene	55.8	2.5	"	50.0		112	70-130			
1,1,2-Trichloroethane	51.6	2.5	"	50.0		103	70-130			
1,1,1-Trichloroethane	47.7	2.5	"	50.0		95.4	70-130			
Trichloroethene	55.6	2.5	"	50.0		111	80.6-119			
Trichlorofluoromethane	55.6	2.5	"	50.0		111	70-130			
1,2,3-Trichloropropane	51.1	2.5	"	50.0		102	70-130			
1,3,5-Trimethylbenzene	52.8	2.5	"	50.0		106	70-130			
1,2,4-Trimethylbenzene	51.5	2.5	"	50.0		103	70-130			
Vinyl chloride	45.4	2.5	"	50.0		90.9	70-130			
Benzene	51.8	2.5	"	50.0		104	79.1-117			
Toluene	49.6	2.5	"	50.0		99.1	79.5-118			
Ethylbenzene	51.5	2.5	"	50.0		103	70-130			
m,p-Xylene	108	5.0	"	100		108	70-130			
o-Xylene	53.2	2.5	"	50.0		106	70-130			
Surrogate: Toluene-d8	48.1		"	50.0		96.1	76.1-127			
Surrogate: 4-Bromofluorobenzene	47.5		"	50.0		95.1	85.9-114			
Surrogate: Dibromofluoromethane	50.8		"	50.0		102	77.8-142			

LCS Dup (1051243-BS1)

Prepared: 05/12/21 Analyzed: 05/17/21

Bromobenzene	58.7	2.5	ug/kg	50.0		117	70-130	4.67	20	
Bromochloromethane	59.1	2.5	"	50.0		118	70-130	1.73	20	
Bromodichloromethane	46.2	2.5	"	50.0		92.5	70-130	1.20	20	
Bromoform	54.9	2.5	"	50.0		110	70-130	4.14	20	
Bromomethane	52.1	2.5	"	50.0		104	70-130	0.558	20	
n-Butylbenzene	51.5	2.5	"	50.0		103	70-130	0.194	20	
sec-Butylbenzene	55.1	2.5	"	50.0		110	70-130	4.23	20	
tert-Butylbenzene	48.2	2.5	"	50.0		96.4	70-130	0.499	20	
Carbon tetrachloride	43.6	2.5	"	50.0		87.2	70-130	1.18	20	
Chlorobenzene	57.8	2.5	"	50.0		116	79.1-117	0.730	20	
Chloroethane	73.5	2.5	"	50.0		147	70-130	1.66	20	QM-12
Chloroform	51.3	2.5	"	50.0		103	70-130	1.45	20	
Chloromethane	47.5	2.5	"	50.0		95.0	70-130	1.07	20	
2-Chlorotoluene	50.8	2.5	"	50.0		102	70-130	1.02	20	
4-Chlorotoluene	50.6	2.5	"	50.0		101	70-130	3.31	20	
Dibromochloromethane	51.8	2.5	"	50.0		104	70-130	2.42	20	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051243 - EPA 5035 GCMS

LCS Dup (1051243-BSD1)

Prepared: 05/12/21 Analyzed: 05/17/21

1,2-Dibromo-3-chloropropane	52.9	5.0	ug/kg	50.0		106	70-130	7.47	20	
1,2-Dibromoethane (EDB)	53.4	2.5	"	50.0		107	70-130	2.20	20	
Dibromomethane	52.8	2.5	"	50.0		106	70-130	2.18	20	
1,2-Dichlorobenzene	55.2	2.5	"	50.0		110	70-130	0.929	20	
1,3-Dichlorobenzene	53.6	2.5	"	50.0		107	70-130	1.67	20	
1,4-Dichlorobenzene	53.4	2.5	"	50.0		107	70-130	1.17	20	
Dichlorodifluoromethane	47.7	2.5	"	50.0		95.3	70-130	1.27	20	
1,1-Dichloroethane	50.2	2.5	"	50.0		100	70-130	2.30	20	
1,2-Dichloroethane	40.2	2.5	"	50.0		80.4	70-130	1.28	20	
1,1-Dichloroethene	60.0	2.5	"	50.0		120	68-126	3.46	20	
cis-1,2-Dichloroethene	57.6	2.5	"	50.0		115	70-130	2.13	20	
trans-1,2-Dichloroethene	58.9	2.5	"	50.0		118	70-130	0.710	20	
1,2-Dichloropropane	49.6	2.5	"	50.0		99.1	70-130	0.0807	20	
1,3-Dichloropropane	53.0	2.5	"	50.0		106	70-130	0.776	20	
2,2-Dichloropropane	41.1	2.5	"	50.0		82.1	70-130	1.64	20	
1,1-Dichloropropene	47.7	2.5	"	50.0		95.5	70-130	1.14	20	
cis-1,3-Dichloropropene	46.8	2.5	"	50.0		93.6	70-130	0.235	20	
trans-1,3-Dichloropropene	44.1	2.5	"	50.0		88.2	70-130	4.45	20	
Hexachlorobutadiene	52.1	2.5	"	50.0		104	70-130	2.60	20	
Isopropylbenzene	54.3	2.5	"	50.0		109	70-130	1.88	20	
p-Isopropyltoluene	51.6	2.5	"	50.0		103	70-130	2.52	20	
Methylene chloride	55.1	10	"	50.0		110	70-130	0.380	20	
Naphthalene	52.5	2.5	"	50.0		105	70-130	1.77	20	
n-Propylbenzene	52.8	2.5	"	50.0		106	70-130	2.08	20	
Styrene	55.1	2.5	"	50.0		110	70-130	4.19	20	
1,1,2,2-Tetrachloroethane	55.7	2.5	"	50.0		111	70-130	1.41	20	
1,1,1,2-Tetrachloroethane	51.7	2.5	"	50.0		103	70-130	0.213	20	
Tetrachloroethene	58.7	2.5	"	50.0		117	70-130	2.59	20	
1,2,3-Trichlorobenzene	55.0	2.5	"	50.0		110	70-130	4.26	20	
1,2,4-Trichlorobenzene	54.5	2.5	"	50.0		109	70-130	2.41	20	
1,1,2-Trichloroethane	52.5	2.5	"	50.0		105	70-130	1.83	20	
1,1,1-Trichloroethane	47.3	2.5	"	50.0		94.6	70-130	0.863	20	
Trichloroethene	55.3	2.5	"	50.0		111	80.6-119	0.667	20	
Trichlorofluoromethane	56.3	2.5	"	50.0		113	70-130	1.29	20	
1,2,3-Trichloropropane	52.2	2.5	"	50.0		104	70-130	2.13	20	
1,3,5-Trimethylbenzene	52.0	2.5	"	50.0		104	70-130	1.60	20	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051243 - EPA 5035 GCMS

LCS Dup (1051243-BSD1)

Prepared: 05/12/21 Analyzed: 05/17/21

1,2,4-Trimethylbenzene	52.8	2.5	ug/kg	50.0		106	70-130	2.42	20	
Vinyl chloride	44.6	2.5	"	50.0		89.1	70-130	1.91	20	
Benzene	52.8	2.5	"	50.0		106	79.1-117	1.89	20	
Toluene	49.7	2.5	"	50.0		99.5	79.5-118	0.322	20	
Ethylbenzene	52.3	2.5	"	50.0		105	70-130	1.50	20	
m,p-Xylene	109	5.0	"	100		109	70-130	0.423	20	
o-Xylene	55.1	2.5	"	50.0		110	70-130	3.55	20	
Surrogate: Toluene-d8	48.9		"	50.0		97.7	76.1-127			
Surrogate: 4-Bromofluorobenzene	48.9		"	50.0		97.9	85.9-114			
Surrogate: Dibromofluoromethane	50.1		"	50.0		100	77.8-142			

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 17:17

Notes and Definitions

S-03 The surrogate recovery was below acceptance criteria in the sample because of a possible matrix effect. The surrogate recovery was within acceptance criteria in the method blank and LCS.

R-07 Reporting limit for this compound(s) has been raised to account for dilution necessary due to high levels of interfering compound(s) and/or matrix affect.

QM-12 The % recovery for this analyte was above acceptance criteria in the LCS and/or LCSD. The MB and sample(s) were ND for the analyte. The CCV(s) was within acceptance criteria. No negative impact on data is expected.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.

M-04 Multiple analysis yielded low internal standard/or surrogate recoveries due to matrix effect. Low internal standard results may cause a potential high bias in sample results.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

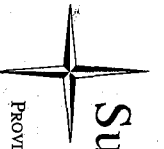
RPD Relative Percent Difference

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager



SunStar
Laboratories, Inc.

Chain of Custody Record

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commence Drive, Lake Forest, CA 92630
949-297-5020

Client: Northgate Environmental
Address: 24411 Ridge Pk. Dr.
Phone: 949-716-8050 Fax: _____
Project Manager: Dexter Willis

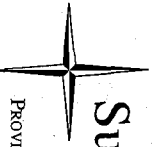
Date: 5/11/21 Page: 1 of 3
Project Name: Holland Rev.
Collector: Shayna Avila Client Project #: 2047-28-025
Batch #: T211590 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8081 OCPs	Comments/Preservative	Total # of containers	
01	SB1-1	5/11/21	0820	SOIL	5035+SLUR	X					X		X	X		X			
02	SB1-5	5/11/21	0830	SOIL	5035+SLUR						X		X	X		X			
03	SB3-1	5/11/21	0850	SOIL	5035+SLUR						X		X	X		X			
04	SB3-5	5/11/21	0900	SOIL	5035+SLUR						X		X	X		X			
05	SW33	5/11/21	1230	WATER	YOH-HCL	X					X		X	X		X			
06	SB4-3	5/11/21	0940	SOIL	5035+SLUR	X					X		X	X		X			
07	SB4-5	5/11/21	0950	SOIL	5035+SLUR						X		X	X		X			
08	SB5-1	5/11/21	0955	SOIL	5035+SLUR						X		X	X		X			
09	SB5-5	5/11/21	1000	SOIL	5035+SLUR						X		X	X		X			
10	SB6-1	5/11/21	1040	SOIL	5035+SLUR						X		X	X		X			
11	SB6-5	5/11/21	1045	SOIL	5035+SLUR						X		X	X		X			
12	SB7-1	5/11/21	1050	SOIL	5035+SLUR						X		X	X		X			
13	SB7-5	5/11/21	1105	SOIL	5035+SLUR						X		X	X		X			
14	SB8-1	5/11/21	1125	SOIL	5035+SLUR						X		X	X		X			
15	SB8-5	5/11/21	1130	SOIL	5035+SLUR						X		X	X		X			
Relinquished by: (signature) <u>[Signature]</u>		Date / Time 5/11/21 1745	Received by: (signature) <u>[Signature]</u>		Date / Time 5/11/21 1748	Chain of Custody seals Y/N/A Seals intact? Y/N/A <u>(X)</u> Received good condition/cold <u>(X)</u>													Notes <u>21.2</u>
Relinquished by: (signature)		Date / Time	Received by: (signature)		Date / Time	Turn around time: <u>Std</u>													
Relinquished by: (signature)		Date / Time	Received by: (signature)		Date / Time														

Sample disposal instructions: Disposal @ \$2.00 each

Return to client

Pickup



SunStar
Laboratories, Inc.

Chain of Custody Record

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Northgate
Address: 24411 Ridge Rd. Dr
Phone: 949-716-0050 Fax: _____
Project Manager: Dennis Willis

Date: 5/11/21 Page: 2 of 3
Project Name: Holland Fv.
Collector: Shayna Anis Client Project #: 2047.28.025
Batch #: _____ EDF #: Report EDD

Laboratory ID #	Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8081 OCPs	Comments/Preservative	Total # of containers	Notes	
	SB10-1	5/11/21	1200	Soil	Oil+SO35	X					X	X	X	X	X	X			6	
	SB10-5	5/11/21	1200	Soil	Oil+SO35	X					X	X	X	X	X	X			6	
	SB10-10	5/11/21	1430	Water	VOA	X					X	X	X	X	X	X		HCL	6	
	SB12-1	5/11/21	1300	Soil	Oil+SO35	X					X	X	X	X	X	X			6	
	SB12-8	5/11/21	1305	Soil	Oil+SO35	X					X	X	X	X	X	X			6	
	SB11-1	5/11/21	1405	Soil	Oil+SO35	X					X	X	X	X	X	X			6	
	SB11-5	5/11/21	1410	Soil	Oil+SO35	X					X	X	X	X	X	X			6	
	SB12-1	5/11/21	1255	Soil	Oil+SO35	X					X	X	X	X	X	X			6	
	SB12-5	5/11/21	1310	Soil	Oil+SO35	X					X	X	X	X	X	X			6	
	SB13-1	5/11/21	1225	Soil	Oil+SO35	X					X	X	X	X	X	X			6	
	SB13-5	5/11/21	1230	Soil	Oil+SO35	X					X	X	X	X	X	X			6	
	SB14-1	5/11/21	1155	Soil	Oil+SO35	X					X	X	X	X	X	X			6	
	SB14-5	5/11/21	1205	Soil	Oil+SO35	X					X	X	X	X	X	X			6	
	SB15-1	5/11/21	1135	Soil	Oil+SO35	X					X	X	X	X	X	X			6	
	SB15-5	5/11/21	1140	Soil	Oil+SO35	X					X	X	X	X	X	X			6	
Relinquished by: (signature)		Date / Time	Received by: (signature)		Date / Time	Chain of Custody seals Y/N/A													Notes	
Rob M		05/11/21 1748	Shayna Anis		5/11/21 1748	Seals intact? Y/N/A														
Relinquished by: (signature)		Date / Time	Received by: (signature)		Date / Time	Received good condition/cold														
Relinquished by: (signature)		Date / Time	Received by: (signature)		Date / Time	Turn around time: 5td														
						21.2°C														

Sample disposal instructions: Disposal @ \$2.00 each

Return to client

Pickup

Turn around time: Std

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commerce Drive, Lake Forest, CA 92630
949-297-5020

Client: NorMyrtle Environmental

Address: 74011 Ridge Route Dr., Laguna Hills

Phone: 969 716 0050

Fax:

Project Manager: Derrick Williams

Date: 05/11/2021

Page: 3 Of 3

Project Name: Holland FV

Collector: Shayna Avilla

Client Project #: 2047, 28, 075

Batch #:

EDF #: Report EDD[illegible]

Sample disposal Instructions: Disposal @ \$2.00 each

Return to client

Pickup

① Wscentry 98 5/11/21

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T21 1590

Client Name: Northgate - Laguna Hills Project: Holland FV

Delivered by: ☒ Client ☐ SunStar Courier ☐ GLS ☐ FedEx ☐ Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: Jennifer Date/Time Lab Received: 5/11/21 17:48

Total number of coolers received: / Thermometer ID: SC-GUN Calibration due: 8/17/21

Temperature: Cooler #1	<u>21.4</u> °C +/- the CF (-0.2°C) =	<u>21.2</u> °C corrected temperature
Temperature: Cooler #2	°C +/- the CF (-0.2°C) =	°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (-0.2°C) =	°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria? ☒ Yes ☐ No ☐ N/A
If NO:		
Samples received on ice?	☐ Yes	☐ No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	☐ Yes → Acceptable	☐ No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample ☐ Yes ☐ No* ☒ N/A

Sample containers intact ☒ Yes ☐ No*

Sample labels match Chain of Custody IDs ☒ Yes ☐ No*

Total number of containers received match COC ☐ Yes ☒ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: PB 5/11/21

Comments: There were 2 samples received that were not listed on the C.O.C. and many of the samples were delivered to us the next day.

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # T2 / 1590

▪ **COOLERS**

- ☐ Not Received (received COC only)
☐ Leaking/Damaged
☐ Other:

▪ **CUSTODY SEALS**

- ☐ None
☐ Not Intact

▪ **TEMPERATURE (Temp criteria $\leq 6^{\circ}\text{C}$)**

- ☐ Cooler/Sample Temp(s)
☐ Temperature Blank(s)

▪ **CHAIN OF CUSTODY (COC)**

☐ Not relinquished by client; No date/time relinquished

- ☐ Incomplete information provided
☐ COC not received – notify PM

▪ **CONTAINERS**

- ☐ Leaking ☐ Broken
☐ Extra ☐ Missing

▪ **LABELS**

- ☐ Not the same sample ID / info as on the COC
☐ Incomplete Information
☐ Markings/Info illegible

▪ **SAMPLES**

- ☐ Samples **NOT RECEIVED** but listed on COC
☒ Samples received but **NOT LISTED** on COC
☐ Logged based on Label Information and not COC
☐ Logged according to Work Plan and not COC
☐ Logged in, **ON HOLD** until further notice
☐ Insufficient quantities for analysis
☐ Improper container used

- ☐ Mislabelled as to tests, preservatives, etc.
☐ Holding time expired – list sample ID and test
☐ Not preserved/Improper preservative used
☐ Without Labels, no information on containers
☐ VOA vial(s) containing headspace $>6\text{mm}$
☐ Other

Project Manager notified of sample non-conformance(s)

☒ Yes ☐ No

All samples accepted for processing and distributing to laboratory(ies)

☒ Yes ☐ No

For samples not accepted due to non-conformance, specify each specific sample ID being rejected in the comments section below:

Comments:

T211590

SunStar Laboratories, Inc.

Client: Northgate Environmental Management -- Laguna
Project: Holland FV

Project Manager: Jeff Lee
Project Number: 2047.28.025

Report To:

Northgate Environmental Management -- Laguna Hills
 Derrick Willis
 24411 Ridge Route Drive, Suite 130
 Laguna Hills, CA 92653
 Phone: (949) 716-0050
 Fax: (949) 230-0643

Invoice To:

Northgate Environmental Management -- Laguna Hills
 Derrick Willis
 24411 Ridge Route Drive, Suite 130
 Laguna Hills, CA 92653
 Phone : (949) 716-0050
 Fax: (949) 230-0643

Date Due: 05/19/21 17:00 (5 day TAT)

Received By: Jennifer Berger

Date Received: 05/11/21 17:48

Logged In By: Jeff Lee

Date Logged In: 05/12/21 09:05

Samples Received at: 21.2°C

Custody Seals No Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir No

Analysis	Due	TAT	Expires	Comments
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T211590-01 SB1-1 [Soil] Sampled 05/11/21 08:20 (GMT-08:00) Pacific Time (US &

8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 08:20
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 08:20
8081 Pesticides	05/19/21 15:00	5	05/25/21 08:20
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 08:20
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 08:20

T211590-02 SB1-5 [Soil] Sampled 05/11/21 08:30 (GMT-08:00) Pacific Time (US &

8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 08:30
8081 Pesticides	05/19/21 15:00	5	05/25/21 08:30
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 08:30
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 08:30
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 08:30

T211590-03 SB3-1 [Soil] Sampled 05/11/21 08:57 (GMT-08:00) Pacific Time (US &

8081 Pesticides	05/19/21 15:00	5	05/25/21 08:57
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 08:57
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 08:57
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 08:57
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 08:57

T211590

SunStar Laboratories, Inc.

Client: Northgate Environmental Management -- Laguna
Project: Holland FV

Project Manager: Jeff Lee
Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-04 SB3-5 [Soil] Sampled 05/11/21 09:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 09:00	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 09:00	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 09:00	
8081 Pesticides	05/19/21 15:00	5	05/25/21 09:00	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 09:00	
T211590-05 GW-3 [Water] Sampled 05/11/21 12:30 (GMT-08:00) Pacific Time (US &				
8260 - Full QC	05/19/21 15:00	5	05/25/21 12:30	Limited sample volumn, use only 2 VOAs per analysis
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 12:30	Limited sample volumn, use only 2 VOAs per analysis
8015 TPH-CC LLvL	05/19/21 15:00	5	05/25/21 12:30	Limited sample volumn, use only 2 VOAs per analysis
T211590-06 SB4-3 [Soil] Sampled 05/11/21 09:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 09:40	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 09:40	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 09:40	
8081 Pesticides	05/19/21 15:00	5	05/25/21 09:40	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 09:40	
T211590-07 SB4-5 [Soil] Sampled 05/11/21 09:50 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	05/19/21 15:00	5	05/25/21 09:50	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 09:50	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 09:50	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 09:50	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 09:50	
T211590-08 SB5-1 [Soil] Sampled 05/11/21 09:55 (GMT-08:00) Pacific Time (US &				
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 09:55	
8081 Pesticides	05/19/21 15:00	5	05/25/21 09:55	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 09:55	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 09:55	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 09:55	

WORK ORDER

Printed: 5/13/2021 10:14:00AM

T211590

SunStar Laboratories, Inc.

Client: Northgate Environmental Management -- Laguna
Project: Holland FV

Project Manager: Jeff Lee
Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-09 SB5-5 [Soil] Sampled 05/11/21 10:00 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	05/19/21 15:00	5	05/25/21 10:00	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 10:00	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 10:00	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 10:00	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 10:00	
T211590-10 SB6-1 [Soil] Sampled 05/11/21 10:40 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 10:40	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 10:40	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 10:40	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 10:40	
8081 Pesticides	05/19/21 15:00	5	05/25/21 10:40	
T211590-11 SB6-5 [Soil] Sampled 05/11/21 10:45 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 10:45	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 10:45	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 10:45	
8081 Pesticides	05/19/21 15:00	5	05/25/21 10:45	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 10:45	
T211590-12 SB7-1 [Soil] Sampled 05/11/21 10:58 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 10:58	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 10:58	
8081 Pesticides	05/19/21 15:00	5	05/25/21 10:58	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 10:58	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 10:58	
T211590-13 SB7-5 [Soil] Sampled 05/11/21 11:05 (GMT-08:00) Pacific Time (US &				
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:05	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:05	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:05	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:05	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:05	

WORK ORDER

Printed: 5/13/2021 10:14:00AM

T211590

SunStar Laboratories, Inc.

Client: Northgate Environmental Management -- Laguna
Project: Holland FV

Project Manager: Jeff Lee
Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-14 SB8-1 [Soil] Sampled 05/11/21 11:25 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:25	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:25	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:25	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:25	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:25	
T211590-15 SB8-5 [Soil] Sampled 05/11/21 11:30 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:30	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:30	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:30	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:30	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:30	
T211590-16 SB10-1 [Soil] Sampled 05/11/21 12:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 12:00	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 12:00	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 12:00	
8081 Pesticides	05/19/21 15:00	5	05/25/21 12:00	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 12:00	
T211590-17 SB10-5 [Soil] Sampled 05/11/21 12:05 (GMT-08:00) Pacific Time (US &				
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 12:05	
8081 Pesticides	05/19/21 15:00	5	05/25/21 12:05	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 12:05	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 12:05	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 12:05	
T211590-18 GW-10 [Water] Sampled 05/11/21 14:30 (GMT-08:00) Pacific Time (US &				
8260 - Full QC	05/19/21 15:00	5	05/25/21 14:30	Limited sample volumn, use only 2 VOAs per analysis
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 14:30	Limited sample volumn, use only 2 VOAs per analysis
8015 TPH-CC LLvL	05/19/21 15:00	5	05/25/21 14:30	Limited sample volumn, use only 2 VOAs per analysis

WORK ORDER

Printed: 5/13/2021 10:14:00AM

T211590

SunStar Laboratories, Inc.

Client: Northgate Environmental Management -- Laguna
Project: Holland FV

Project Manager: Jeff Lee
Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-19 SB2-1 [Soil] Sampled 05/11/21 13:00 (GMT-08:00) Pacific Time (US &				
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 13:00	
8081 Pesticides	05/19/21 15:00	5	05/25/21 13:00	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 13:00	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 13:00	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 13:00	
T211590-20 SB2-5 [Soil] Sampled 05/11/21 13:05 (GMT-08:00) Pacific Time (US &				
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 13:05	
8081 Pesticides	05/19/21 15:00	5	05/25/21 13:05	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 13:05	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 13:05	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 13:05	
T211590-21 SB11-1 [Soil] Sampled 05/11/21 14:05 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 14:05	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 14:05	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 14:05	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 14:05	
8081 Pesticides	05/19/21 15:00	5	05/25/21 14:05	
T211590-22 SB11-5 [Soil] Sampled 05/11/21 14:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 14:10	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 14:10	
8081 Pesticides	05/19/21 15:00	5	05/25/21 14:10	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 14:10	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 14:10	
T211590-23 SB12-1 [Soil] Sampled 05/11/21 12:55 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 12:55	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 12:55	
8081 Pesticides	05/19/21 15:00	5	05/25/21 12:55	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 12:55	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 12:55	

WORK ORDER

Printed: 5/13/2021 10:14:00AM

T211590

SunStar Laboratories, Inc.

Client: Northgate Environmental Management -- Laguna
Project: Holland FV

Project Manager: Jeff Lee
Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-24 SB12-5 [Soil] Sampled 05/11/21 13:10 (GMT-08:00) Pacific Time (US &				
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 13:10	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 13:10	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 13:10	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 13:10	
8081 Pesticides	05/19/21 15:00	5	05/25/21 13:10	
T211590-25 SB13-1 [Soil] Sampled 05/11/21 12:25 (GMT-08:00) Pacific Time (US &				
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 12:25	
8081 Pesticides	05/19/21 15:00	5	05/25/21 12:25	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 12:25	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 12:25	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 12:25	
T211590-26 SB13-5 [Soil] Sampled 05/11/21 12:30 (GMT-08:00) Pacific Time (US &				
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 12:30	
8081 Pesticides	05/19/21 15:00	5	05/25/21 12:30	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 12:30	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 12:30	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 12:30	
T211590-27 SB14-1 [Soil] Sampled 05/11/21 11:55 (GMT-08:00) Pacific Time (US &				
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:55	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:55	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:55	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:55	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:55	
T211590-28 SB14-5 [Soil] Sampled 05/11/21 12:05 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 12:05	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 12:05	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 12:05	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 12:05	
8081 Pesticides	05/19/21 15:00	5	05/25/21 12:05	

WORK ORDER

Printed: 5/13/2021 10:14:00AM

T211590

SunStar Laboratories, Inc.

Client: Northgate Environmental Management -- Laguna
Project: Holland FV

Project Manager: Jeff Lee
Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-29 SB15-1 [Soil] Sampled 05/11/21 11:35 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:35	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:35	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:35	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:35	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:35	
T211590-30 SB15-5 [Soil] Sampled 05/11/21 11:40 (GMT-08:00) Pacific Time (US &				
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:40	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:40	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:40	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:40	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:40	
T211590-31 SB16-1 [Soil] Sampled 05/11/21 11:15 (GMT-08:00) Pacific Time (US &				
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:15	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:15	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:15	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:15	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:15	
T211590-32 SB16-5 [Soil] Sampled 05/11/21 11:25 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:25	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:25	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:25	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:25	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:25	
T211590-33 GW-2 [Water] Sampled 05/11/21 16:00 (GMT-08:00) Pacific Time (US &				
8260 - Full QC	05/19/21 15:00	5	05/25/21 16:00	Limited sample volumn, use only 2 VOAs per analysis
8015 TPH-CC LLvL	05/19/21 15:00	5	05/25/21 16:00	Limited sample volumn, use only 2 VOAs per analysis

WORK ORDER

Printed: 5/13/2021 10:14:00AM

T211590**SunStar Laboratories, Inc.****Client: Northgate Environmental Management -- Laguna**
Project: Holland FV**Project Manager: Jeff Lee**
Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-34 SB9-1 [Soil] Sampled 05/11/21 11:40 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:40	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:40	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:40	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:40	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:40	

T211590-35 SB9-5 [Soil] Sampled 05/11/21 11:45 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:45	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:45	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:45	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:45	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:45	

Analysis groups included in this work order6010 Title 22 Full QC

subgroup 6010B T22 Full I 7470/71 Hg

Reviewed By

Date



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

01 June 2021

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653
RE: Holland FV

Enclosed are the results of analyses for samples received by the laboratory on 05/11/21 17:48. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Lee
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
06/01/21 17:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB5-1	T211590-08	Soil	05/11/21 09:55	05/11/21 17:48
SB6-1	T211590-10	Soil	05/11/21 10:40	05/11/21 17:48
SB2-1	T211590-19	Soil	05/11/21 13:00	05/11/21 17:48

Samples T211590-01,02,03,04,06,07,08,09,10,11 were received on 5/12/21 8:45AM with receiving temperature of 4.1C. Samples were received in good condition and logged under the same work order as the samples received on 5/11/21.

Samples SB9-1 and SB9-5 were not listed on the CoC. These two samples are added to the work order as samples T211590-34, and -35.

Due to lack of sample volume, sample GW2 will only analyze for VOC and TPH per client's request over phone on 5/12/21. JL 5/12/21

Per your request via email on May 27, 2021, Polychlorinated Biphenyls by Method 8082 were added to the following sample ID's:

SB2-1 (T211590-19)
SB5-1 (T211590-08)
SB6-1 (T211590-10)

At the time of the request, the samples had exceeded the holding times of 14 days. We proceeded with the requested analysis.

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
06/01/21 17:05

DETECTIONS SUMMARY

Sample ID: SB5-1

Laboratory ID: T211590-08

No Results Detected

Sample ID: SB6-1

Laboratory ID: T211590-10

No Results Detected

Sample ID: SB2-1

Laboratory ID: T211590-19

No Results Detected

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager



25712 Commercentre Drive
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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
06/01/21 17:05

SB5-1
T211590-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082/3550C

PCB-1016	ND	100	ug/kg	10	1052745	05/27/21	06/01/21	EPA 8082	O-04, R-07
PCB-1221	ND	100	"	"	"	"	"	"	O-04, R-07
PCB-1232	ND	100	"	"	"	"	"	"	O-04, R-07
PCB-1242	ND	100	"	"	"	"	"	"	O-04, R-07
PCB-1248	ND	100	"	"	"	"	"	"	O-04, R-07
PCB-1254	ND	100	"	"	"	"	"	"	O-04, R-07
PCB-1260	ND	100	"	"	"	"	"	"	O-04, R-07
Surrogate: Tetrachloro-meta-xylene		62.5 %		35-140	"	"	"	"	O-04, R-07
Surrogate: Decachlorobiphenyl		52.9 %		35-140	"	"	"	"	O-04, R-07

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
06/01/21 17:05

SB6-1

T211590-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082/3550C

PCB-1016	ND	10	ug/kg	1	1052745	05/27/21	06/01/21	EPA 8082	O-04
PCB-1221	ND	10	"	"	"	"	"	"	O-04
PCB-1232	ND	10	"	"	"	"	"	"	O-04
PCB-1242	ND	10	"	"	"	"	"	"	O-04
PCB-1248	ND	10	"	"	"	"	"	"	O-04
PCB-1254	ND	10	"	"	"	"	"	"	O-04
PCB-1260	ND	10	"	"	"	"	"	"	O-04
Surrogate: Tetrachloro-meta-xylene		74.1 %		35-140	"	"	"	"	O-04
Surrogate: Decachlorobiphenyl		64.5 %		35-140	"	"	"	"	O-04

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
06/01/21 17:05

SB2-1

T211590-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082/3550C

PCB-1016	ND	10	ug/kg	1	1052745	05/27/21	06/01/21	EPA 8082	O-04
PCB-1221	ND	10	"	"	"	"	"	"	O-04
PCB-1232	ND	10	"	"	"	"	"	"	O-04
PCB-1242	ND	10	"	"	"	"	"	"	O-04
PCB-1248	ND	10	"	"	"	"	"	"	O-04
PCB-1254	ND	10	"	"	"	"	"	"	O-04
PCB-1260	ND	10	"	"	"	"	"	"	O-04
Surrogate: Tetrachloro-meta-xylene		77.2 %	35-140		"	"	"	"	O-04
Surrogate: Decachlorobiphenyl		65.2 %	35-140		"	"	"	"	O-04

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
06/01/21 17:05

Polychlorinated Biphenyls by EPA Method 8082/3550C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1052745 - EPA 3550C ECD/GCMS

Blank (1052745-BLK1)

Prepared: 05/27/21 Analyzed: 06/01/21

PCB-1016	ND	10	ug/kg							
PCB-1221	ND	10	"							
PCB-1232	ND	10	"							
PCB-1242	ND	10	"							
PCB-1248	ND	10	"							
PCB-1254	ND	10	"							
PCB-1260	ND	10	"							
Surrogate: Tetrachloro-meta-xylene	7.99		"	10.1		79.1	35-140			
Surrogate: Decachlorobiphenyl	5.97		"	10.1		59.1	35-140			

LCS (1052745-BS1)

Prepared: 05/27/21 Analyzed: 06/01/21

PCB-1016	78.8	10	ug/kg	101		78.0	40-130			
PCB-1260	72.3	10	"	101		71.6	40-130			
Surrogate: Tetrachloro-meta-xylene	7.81		"	10.1		77.3	35-140			
Surrogate: Decachlorobiphenyl	5.85		"	10.1		57.9	35-140			

LCS Dup (1052745-BSD1)

Prepared: 05/27/21 Analyzed: 06/01/21

PCB-1016	79.2	10	ug/kg	99.0		80.0	40-130	0.532	30	
PCB-1260	75.3	10	"	99.0		76.1	40-130	4.09	30	
Surrogate: Tetrachloro-meta-xylene	7.84		"	9.90		79.2	35-140			
Surrogate: Decachlorobiphenyl	5.64		"	9.90		57.0	35-140			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
06/01/21 17:05

Notes and Definitions

R-07 Reporting limit for this compound(s) has been raised to account for dilution necessary due to high levels of interfering compound(s) and/or matrix affect.

O-04 This sample was received and analyzed outside the EPA recommended holding time.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

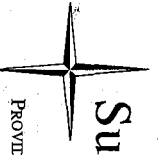
dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager



SunStar
Laboratories, Inc.

Chain of Custody Record

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commence Drive, Lake Forest, CA 92630
949-297-5020

Client: Northgate Environmental
Address: 24411 Ridge Pk. Dr.
Phone: 949-716-0050 Fax: _____
Project Manager: Dexter Willis

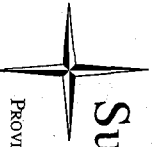
Date: 5/11/21 Page: 1 of 3
Project Name: Holland Rev.
Collector: Shayna Avila Client Project #: 2047-28-025
Batch #: T211590 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8081 OCPs	Comments/Preservative	Total # of containers		
01	SB1-1	5/11/21	0820	SOIL	5035+SLUR	X					X		X	X		X				
02	SB1-5	5/11/21	0830	SOIL	5035+SLUR						X		X	X		X				
03	SB3-1	5/11/21	0850	SOIL	5035+SLUR						X		X	X		X				
04	SB3-5	5/11/21	0900	SOIL	5035+SLUR						X		X	X		X				
05	SW33	5/11/21	1230	WATER	YOH-HCL	X					X		X	X		X				
06	SB4-3	5/11/21	0940	SOIL	5035+SLUR	X					X		X	X		X				
07	SB4-5	5/11/21	0940	SOIL	5035+SLUR	X					X		X	X		X				
08	SB5-1	5/11/21	0940	SOIL	5035+SLUR	X					X		X	X		X				
09	SB5-5	5/11/21	1000	SOIL	5035+SLUR	X					X		X	X		X				
10	SB6-1	5/11/21	1040	SOIL	5035+SLUR	X					X		X	X		X				
11	SB6-5	5/11/21	1045	SOIL	5035+SLUR	X					X		X	X		X				
12	SB7-1	5/11/21	1050	SOIL	5035+SLUR	X					X		X	X		X				
13	SB7-5	5/11/21	1105	SOIL	5035+SLUR	X					X		X	X		X				
14	SB8-1	5/11/21	1125	SOIL	5035+SLUR	X					X		X	X		X				
15	SB8-5	5/11/21	1130	SOIL	5035+SLUR	X					X		X	X		X				
Relinquished by: (signature) <u>[Signature]</u>		Date / Time 5/11/21 1740	Received by: (signature) <u>[Signature]</u>		Date / Time 5/11/21 1740	Chain of Custody seals Y/N/A Seals intact? Y/N/A Received good condition/cold													Turn around time: <u>Std</u>	Notes <u>21.2</u>
Relinquished by: (signature)		Date / Time	Received by: (signature)		Date / Time															
Relinquished by: (signature)		Date / Time	Received by: (signature)		Date / Time															

Sample disposal instructions: Disposal @ \$2.00 each

Return to client

Pickup



SunStar
Laboratories, Inc.

Chain of Custody Record

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Northgate
Address: 24411 Ridge Rd. Dr
Phone: 949-716-0050 Fax: _____
Project Manager: Dennis Willis

Date: 5/11/21 Page: 2 of 3
Project Name: Holland Av.
Collector: Shayna Anis Client Project #: 2047.28.025
Batch #: _____ EDF #: Report EDD

Laboratory ID #	Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8081 OCPs	Comments/Preservative	Total # of containers	Notes			
	SB10-1	5/11/21	1200	Soil	Oil+SO35	X					X	X	X	X	X	X			6			
	SB10-5	5/11/21	1200	Soil	Oil+SO35	X					X	X	X	X	X	X			6			
	SB10-10	5/11/21	1430	Water	VOA	X					X	X	X	X	X	X		HCL	6			
	SB12-1	5/11/21	1300	Soil	Oil+SO35	X					X	X	X	X	X	X			6			
	SB12-8	5/11/21	1305	Soil	Oil+SO35	X					X	X	X	X	X	X			6			
	SB11-1	5/11/21	1405	Soil	Oil+SO35	X					X	X	X	X	X	X			6			
	SB11-5	5/11/21	1410	Soil	Oil+SO35	X					X	X	X	X	X	X			6			
	SB12-1	5/11/21	1255	Soil	Oil+SO35	X					X	X	X	X	X	X			6			
	SB12-5	5/11/21	1310	Soil	Oil+SO35	X					X	X	X	X	X	X			6			
	SB13-1	5/11/21	1225	Soil	Oil+SO35	X					X	X	X	X	X	X			6			
	SB13-5	5/11/21	1230	Soil	Oil+SO35	X					X	X	X	X	X	X			6			
	SB14-1	5/11/21	1155	Soil	Oil+SO35	X					X	X	X	X	X	X			6			
	SB14-5	5/11/21	1205	Soil	Oil+SO35	X					X	X	X	X	X	X			6			
	SB15-1	5/11/21	1135	Soil	Oil+SO35	X					X	X	X	X	X	X			6			
	SB15-5	5/11/21	1140	Soil	Oil+SO35	X					X	X	X	X	X	X			6			
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time		Chain of Custody seals Y/N/A												Total # of containers		Notes
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time		Seals intact? Y/N/A												Total # of containers		
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time		Received good condition/cold												Total # of containers		
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time		Turn around time:												Total # of containers		

Sample disposal instructions: Disposal @ \$2.00 each

Return to client

Pickup

Turn around time: Std

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Northgate Environmental
Address: 7441 Ridge Route Dr. Laguna Hills
Phone: 969 716 0050 Fax:
Project Manager: Derrick Willis

Date: 05/11/2021
Project Name: Holland FU
Collector: Shayna Avilla
Batch #: _____
Page: 3 of 3
Client Project #: 2047.28.025
EDF #: Report EDD

[illegible]

Sample disposal Instructions: Disposal @ \$2.00 each

Return to client **Pickup**

Pickup

① Wscentry 98 5/11/21

Turn around time: 5x4

Received good condition/cold

21.2^oC

Notes

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T21 1590

Client Name: Northgate - Laguna Hills Project: Holland FV

Delivered by: ☒ Client ☐ SunStar Courier ☐ GLS ☐ FedEx ☐ Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: Jennifer Date/Time Lab Received: 5/11/21 17:48

Total number of coolers received: / Thermometer ID: SC-GUN Calibration due: 8/17/21

Temperature: Cooler #1	21.4 °C +/- the CF (-0.2°C) =	21.2 °C corrected temperature
Temperature: Cooler #2	°C +/- the CF (-0.2°C) =	°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (-0.2°C) =	°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria? ☒ Yes ☐ No ☐ N/A
If NO:		
Samples received on ice?	☐ Yes	☐ No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	☐ Yes → Acceptable	☐ No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample ☐ Yes ☐ No* ☒ N/A

Sample containers intact ☒ Yes ☐ No*

Sample labels match Chain of Custody IDs ☒ Yes ☐ No*

Total number of containers received match COC ☐ Yes ☒ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: PB 5/11/21

Comments: There were 2 samples received that were not listed on the C.O.C. and many of the samples were delivered to us the next day.

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # T2 / 1590

▪ **COOLERS**

- ☐ Not Received (received COC only)
☐ Leaking/Damaged
☐ Other:

▪ **CUSTODY SEALS**

- ☐ None
☐ Not Intact

▪ **TEMPERATURE (Temp criteria $\leq 6^{\circ}\text{C}$)**

- ☐ Cooler/Sample Temp(s)
☐ Temperature Blank(s)

▪ **CHAIN OF CUSTODY (COC)**

☐ Not relinquished by client; No date/time relinquished

- ☐ Incomplete information provided
☐ COC not received – notify PM

▪ **CONTAINERS**

- ☐ Leaking ☐ Broken
☐ Extra ☐ Missing

▪ **LABELS**

- ☐ Not the same sample ID / info as on the COC
☐ Incomplete Information
☐ Markings/Info illegible

▪ **SAMPLES**

- ☐ Samples **NOT RECEIVED** but listed on COC
☒ Samples received but **NOT LISTED** on COC
☐ Logged based on Label Information and not COC
☐ Logged according to Work Plan and not COC
☐ Logged in, **ON HOLD** until further notice
☐ Insufficient quantities for analysis
☐ Improper container used

- ☐ Mislabelled as to tests, preservatives, etc.
☐ Holding time expired – list sample ID and test
☐ Not preserved/Improper preservative used
☐ Without Labels, no information on containers
☐ VOA vial(s) containing headspace $>6\text{mm}$
☐ Other

Project Manager notified of sample non-conformance(s)

☒ Yes ☐ No

All samples accepted for processing and distributing to laboratory(ies)

☒ Yes ☐ No

For samples not accepted due to non-conformance, specify each specific sample ID being rejected in the comments section below:

Comments:

T211590

SunStar Laboratories, Inc.

Client: Northgate Environmental Management -- Laguna
Project: Holland FV

Project Manager: Jeff Lee
Project Number: 2047.28.025

Report To:

Northgate Environmental Management -- Laguna Hills
 Derrick Willis
 24411 Ridge Route Drive, Suite 130
 Laguna Hills, CA 92653
 Phone: (949) 716-0050
 Fax: (949) 230-0643

Invoice To:

Northgate Environmental Management -- Laguna Hills
 Derrick Willis
 24411 Ridge Route Drive, Suite 130
 Laguna Hills, CA 92653
 Phone : (949) 716-0050
 Fax: (949) 230-0643

Date Due: 05/19/21 17:00 (5 day TAT)

Received By: Jennifer Berger

Date Received: 05/11/21 17:48

Logged In By: Jeff Lee

Date Logged In: 05/12/21 09:05

Samples Received at: 21.2°C

Custody Seals No Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir No

Analysis	Due	TAT	Expires	Comments
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T211590-01 SB1-1 [Soil] Sampled 05/11/21 08:20 (GMT-08:00) Pacific Time (US &

8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 08:20
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 08:20
8081 Pesticides	05/19/21 15:00	5	05/25/21 08:20
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 08:20
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 08:20

T211590-02 SB1-5 [Soil] Sampled 05/11/21 08:30 (GMT-08:00) Pacific Time (US &

8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 08:30
8081 Pesticides	05/19/21 15:00	5	05/25/21 08:30
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 08:30
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 08:30
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 08:30

T211590-03 SB3-1 [Soil] Sampled 05/11/21 08:57 (GMT-08:00) Pacific Time (US &

8081 Pesticides	05/19/21 15:00	5	05/25/21 08:57
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 08:57
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 08:57
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 08:57
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 08:57

WORK ORDER

Printed: 5/13/2021 10:14:00AM

T211590

SunStar Laboratories, Inc.

Client: Northgate Environmental Management -- Laguna
Project: Holland FV

Project Manager: Jeff Lee
Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-04 SB3-5 [Soil] Sampled 05/11/21 09:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 09:00	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 09:00	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 09:00	
8081 Pesticides	05/19/21 15:00	5	05/25/21 09:00	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 09:00	
T211590-05 GW-3 [Water] Sampled 05/11/21 12:30 (GMT-08:00) Pacific Time (US &				
8260 - Full QC	05/19/21 15:00	5	05/25/21 12:30	Limited sample volumn, use only 2 VOAs per analysis
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 12:30	Limited sample volumn, use only 2 VOAs per analysis
8015 TPH-CC LLvL	05/19/21 15:00	5	05/25/21 12:30	Limited sample volumn, use only 2 VOAs per analysis
T211590-06 SB4-3 [Soil] Sampled 05/11/21 09:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 09:40	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 09:40	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 09:40	
8081 Pesticides	05/19/21 15:00	5	05/25/21 09:40	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 09:40	
T211590-07 SB4-5 [Soil] Sampled 05/11/21 09:50 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	05/19/21 15:00	5	05/25/21 09:50	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 09:50	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 09:50	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 09:50	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 09:50	
T211590-08 SB5-1 [Soil] Sampled 05/11/21 09:55 (GMT-08:00) Pacific Time (US &				
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 09:55	
8081 Pesticides	05/19/21 15:00	5	05/25/21 09:55	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 09:55	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 09:55	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 09:55	

WORK ORDER

Printed: 5/13/2021 10:14:00AM

T211590

SunStar Laboratories, Inc.

Client: Northgate Environmental Management -- Laguna
Project: Holland FV

Project Manager: Jeff Lee
Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-09 SB5-5 [Soil] Sampled 05/11/21 10:00 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	05/19/21 15:00	5	05/25/21 10:00	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 10:00	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 10:00	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 10:00	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 10:00	
T211590-10 SB6-1 [Soil] Sampled 05/11/21 10:40 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 10:40	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 10:40	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 10:40	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 10:40	
8081 Pesticides	05/19/21 15:00	5	05/25/21 10:40	
T211590-11 SB6-5 [Soil] Sampled 05/11/21 10:45 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 10:45	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 10:45	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 10:45	
8081 Pesticides	05/19/21 15:00	5	05/25/21 10:45	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 10:45	
T211590-12 SB7-1 [Soil] Sampled 05/11/21 10:58 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 10:58	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 10:58	
8081 Pesticides	05/19/21 15:00	5	05/25/21 10:58	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 10:58	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 10:58	
T211590-13 SB7-5 [Soil] Sampled 05/11/21 11:05 (GMT-08:00) Pacific Time (US &				
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:05	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:05	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:05	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:05	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:05	

WORK ORDER

Printed: 5/13/2021 10:14:00AM

T211590

SunStar Laboratories, Inc.

Client: Northgate Environmental Management -- Laguna
Project: Holland FV

Project Manager: Jeff Lee
Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-14 SB8-1 [Soil] Sampled 05/11/21 11:25 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:25	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:25	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:25	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:25	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:25	
T211590-15 SB8-5 [Soil] Sampled 05/11/21 11:30 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:30	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:30	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:30	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:30	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:30	
T211590-16 SB10-1 [Soil] Sampled 05/11/21 12:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 12:00	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 12:00	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 12:00	
8081 Pesticides	05/19/21 15:00	5	05/25/21 12:00	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 12:00	
T211590-17 SB10-5 [Soil] Sampled 05/11/21 12:05 (GMT-08:00) Pacific Time (US &				
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 12:05	
8081 Pesticides	05/19/21 15:00	5	05/25/21 12:05	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 12:05	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 12:05	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 12:05	
T211590-18 GW-10 [Water] Sampled 05/11/21 14:30 (GMT-08:00) Pacific Time (US &				
8260 - Full QC	05/19/21 15:00	5	05/25/21 14:30	Limited sample volumn, use only 2 VOAs per analysis
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 14:30	Limited sample volumn, use only 2 VOAs per analysis
8015 TPH-CC LLvL	05/19/21 15:00	5	05/25/21 14:30	Limited sample volumn, use only 2 VOAs per analysis

WORK ORDER

Printed: 5/13/2021 10:14:00AM

T211590

SunStar Laboratories, Inc.

Client: Northgate Environmental Management -- Laguna
Project: Holland FV

Project Manager: Jeff Lee
Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-19 SB2-1 [Soil] Sampled 05/11/21 13:00 (GMT-08:00) Pacific Time (US &				
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 13:00	
8081 Pesticides	05/19/21 15:00	5	05/25/21 13:00	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 13:00	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 13:00	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 13:00	
T211590-20 SB2-5 [Soil] Sampled 05/11/21 13:05 (GMT-08:00) Pacific Time (US &				
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 13:05	
8081 Pesticides	05/19/21 15:00	5	05/25/21 13:05	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 13:05	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 13:05	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 13:05	
T211590-21 SB11-1 [Soil] Sampled 05/11/21 14:05 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 14:05	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 14:05	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 14:05	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 14:05	
8081 Pesticides	05/19/21 15:00	5	05/25/21 14:05	
T211590-22 SB11-5 [Soil] Sampled 05/11/21 14:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 14:10	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 14:10	
8081 Pesticides	05/19/21 15:00	5	05/25/21 14:10	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 14:10	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 14:10	
T211590-23 SB12-1 [Soil] Sampled 05/11/21 12:55 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 12:55	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 12:55	
8081 Pesticides	05/19/21 15:00	5	05/25/21 12:55	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 12:55	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 12:55	

WORK ORDER

Printed: 5/13/2021 10:14:00AM

T211590

SunStar Laboratories, Inc.

Client: Northgate Environmental Management -- Laguna
Project: Holland FV

Project Manager: Jeff Lee
Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-24 SB12-5 [Soil] Sampled 05/11/21 13:10 (GMT-08:00) Pacific Time (US &				
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 13:10	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 13:10	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 13:10	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 13:10	
8081 Pesticides	05/19/21 15:00	5	05/25/21 13:10	
T211590-25 SB13-1 [Soil] Sampled 05/11/21 12:25 (GMT-08:00) Pacific Time (US &				
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 12:25	
8081 Pesticides	05/19/21 15:00	5	05/25/21 12:25	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 12:25	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 12:25	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 12:25	
T211590-26 SB13-5 [Soil] Sampled 05/11/21 12:30 (GMT-08:00) Pacific Time (US &				
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 12:30	
8081 Pesticides	05/19/21 15:00	5	05/25/21 12:30	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 12:30	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 12:30	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 12:30	
T211590-27 SB14-1 [Soil] Sampled 05/11/21 11:55 (GMT-08:00) Pacific Time (US &				
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:55	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:55	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:55	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:55	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:55	
T211590-28 SB14-5 [Soil] Sampled 05/11/21 12:05 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 12:05	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 12:05	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 12:05	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 12:05	
8081 Pesticides	05/19/21 15:00	5	05/25/21 12:05	

WORK ORDER

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T211590

SunStar Laboratories, Inc.

Client: Northgate Environmental Management -- Laguna
Project: Holland FV

Project Manager: Jeff Lee
Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-29 SB15-1 [Soil] Sampled 05/11/21 11:35 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:35	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:35	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:35	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:35	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:35	
T211590-30 SB15-5 [Soil] Sampled 05/11/21 11:40 (GMT-08:00) Pacific Time (US &				
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:40	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:40	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:40	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:40	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:40	
T211590-31 SB16-1 [Soil] Sampled 05/11/21 11:15 (GMT-08:00) Pacific Time (US &				
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:15	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:15	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:15	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:15	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:15	
T211590-32 SB16-5 [Soil] Sampled 05/11/21 11:25 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:25	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:25	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:25	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:25	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:25	
T211590-33 GW-2 [Water] Sampled 05/11/21 16:00 (GMT-08:00) Pacific Time (US &				
8260 - Full QC	05/19/21 15:00	5	05/25/21 16:00	Limited sample volumn, use only 2 VOAs per analysis
8015 TPH-CC LLvL	05/19/21 15:00	5	05/25/21 16:00	Limited sample volumn, use only 2 VOAs per analysis

WORK ORDER

Printed: 5/13/2021 10:14:00AM

T211590**SunStar Laboratories, Inc.****Client: Northgate Environmental Management -- Laguna**
Project: Holland FV**Project Manager: Jeff Lee**
Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-34 SB9-1 [Soil] Sampled 05/11/21 11:40 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:40	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:40	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:40	
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:40	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:40	

T211590-35 SB9-5 [Soil] Sampled 05/11/21 11:45 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	11/07/21 11:45	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:45	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:45	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:45	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:45	

Analysis groups included in this work order6010 Title 22 Full QC

subgroup 6010B T22 Full I 7470/71 Hg

Reviewed By

Date

WORK ORDER

T211590

Client: Northgate Environmental Management -- Laguna Hills

Project Manager: Jeff Lee

Project: Holland FV

Project Number: 2047.28.025

Report To:

Northgate Environmental Management -- Laguna Hills
Derrick Willis
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Date Due: 06/01/21 17:00 (14 day TAT)

Received By: Jennifer Berger

Date Received: 05/11/21 17:48

Logged In By: Jeff Lee

Date Logged In: 05/12/21 09:05

Samples Received at: 21.2°C

Custody Seals: No **Received On Ice:** Yes

Containers Intact: Yes

COC/Labels Agree: Yes

Preservation Confirmed: No

Analysis	Due	TAT	Expires	Comments
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T211590-01 SB1-1 [Soil] Sampled 05/11/21 08:20 (GMT-08:00) Pacific Time (US &

6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 08:20
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 08:20
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 08:20
8081 Pesticides	05/19/21 15:00	5	05/25/21 08:20
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 08:20

T211590-02 SB1-5 [Soil] Sampled 05/11/21 08:30 (GMT-08:00) Pacific Time (US &

6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 08:30
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 08:30
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 08:30
8081 Pesticides	05/19/21 15:00	5	05/25/21 08:30
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 08:30

T211590-03 SB3-1 [Soil] Sampled 05/11/21 08:57 (GMT-08:00) Pacific Time (US &

6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 08:57
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 08:57
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 08:57
8081 Pesticides	05/19/21 15:00	5	05/25/21 08:57
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 08:57

WORK ORDER

T211590

Client: Northgate Environmental Management -- Laguna Hills	Project Manager: Jeff Lee
Project: Holland FV	Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-04 SB3-5 [Soil] Sampled 05/11/21 09:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 09:00	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 09:00	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 09:00	
8081 Pesticides	05/19/21 15:00	5	05/25/21 09:00	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 09:00	
T211590-05 GW-3 [Water] Sampled 05/11/21 12:30 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 12:30	Limited sample volumn, use only 2 VOAs per analysis
8015 TPH-CC LLvL	05/19/21 15:00	5	05/25/21 12:30	Limited sample volumn, use only 2 VOAs per analysis
8260 - Full QC	05/19/21 15:00	5	05/25/21 12:30	Limited sample volumn, use only 2 VOAs per analysis
T211590-06 SB4-3 [Soil] Sampled 05/11/21 09:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 09:40	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 09:40	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 09:40	
8081 Pesticides	05/19/21 15:00	5	05/25/21 09:40	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 09:40	
T211590-07 SB4-5 [Soil] Sampled 05/11/21 09:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 09:50	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 09:50	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 09:50	
8081 Pesticides	05/19/21 15:00	5	05/25/21 09:50	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 09:50	
T211590-08 SB5-1 [Soil] Sampled 05/11/21 09:55 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 09:55	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 09:55	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 09:55	
8081 Pesticides	05/19/21 15:00	5	05/25/21 09:55	
8082 PCB	06/01/21 15:00	5	05/25/21 09:55	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 09:55	

WORK ORDER

T211590

Client: Northgate Environmental Management -- Laguna Hills	Project Manager: Jeff Lee
Project: Holland FV	Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-09 SB5-5 [Soil] Sampled 05/11/21 10:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 10:00	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 10:00	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 10:00	
8081 Pesticides	05/19/21 15:00	5	05/25/21 10:00	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 10:00	
T211590-10 SB6-1 [Soil] Sampled 05/11/21 10:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 10:40	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 10:40	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 10:40	
8081 Pesticides	05/19/21 15:00	5	05/25/21 10:40	
8082 PCB	06/01/21 15:00	5	05/25/21 10:40	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 10:40	
T211590-11 SB6-5 [Soil] Sampled 05/11/21 10:45 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 10:45	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 10:45	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 10:45	
8081 Pesticides	05/19/21 15:00	5	05/25/21 10:45	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 10:45	
T211590-12 SB7-1 [Soil] Sampled 05/11/21 10:58 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 10:58	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 10:58	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 10:58	
8081 Pesticides	05/19/21 15:00	5	05/25/21 10:58	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 10:58	

WORK ORDER

T211590

Client: Northgate Environmental Management -- Laguna Hills	Project Manager: Jeff Lee
Project: Holland FV	Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-13 SB7-5 [Soil] Sampled 05/11/21 11:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 11:05	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:05	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:05	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:05	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:05	
T211590-14 SB8-1 [Soil] Sampled 05/11/21 11:25 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 11:25	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:25	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:25	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:25	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:25	
T211590-15 SB8-5 [Soil] Sampled 05/11/21 11:30 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 11:30	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:30	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:30	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:30	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:30	
T211590-16 SB10-1 [Soil] Sampled 05/11/21 12:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 12:00	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 12:00	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 12:00	
8081 Pesticides	05/19/21 15:00	5	05/25/21 12:00	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 12:00	
T211590-17 SB10-5 [Soil] Sampled 05/11/21 12:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 12:05	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 12:05	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 12:05	
8081 Pesticides	05/19/21 15:00	5	05/25/21 12:05	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 12:05	

WORK ORDER

T211590

Client: Northgate Environmental Management -- Laguna Hills	Project Manager: Jeff Lee
Project: Holland FV	Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-18 GW-10 [Water] Sampled 05/11/21 14:30 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 14:30	Limited sample volumn, use only 2 VOAs per analysis
8015 TPH-CC LLvL	05/19/21 15:00	5	05/25/21 14:30	Limited sample volumn, use only 2 VOAs per analysis
8260 - Full QC	05/19/21 15:00	5	05/25/21 14:30	Limited sample volumn, use only 2 VOAs per analysis
T211590-19 SB2-1 [Soil] Sampled 05/11/21 13:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 13:00	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 13:00	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 13:00	
8081 Pesticides	05/19/21 15:00	5	05/25/21 13:00	
8082 PCB	06/01/21 15:00	5	05/25/21 13:00	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 13:00	
T211590-20 SB2-5 [Soil] Sampled 05/11/21 13:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 13:05	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 13:05	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 13:05	
8081 Pesticides	05/19/21 15:00	5	05/25/21 13:05	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 13:05	
T211590-21 SB11-1 [Soil] Sampled 05/11/21 14:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 14:05	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 14:05	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 14:05	
8081 Pesticides	05/19/21 15:00	5	05/25/21 14:05	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 14:05	
T211590-22 SB11-5 [Soil] Sampled 05/11/21 14:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 14:10	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 14:10	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 14:10	
8081 Pesticides	05/19/21 15:00	5	05/25/21 14:10	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 14:10	

WORK ORDER

T211590

Client: Northgate Environmental Management -- Laguna Hills	Project Manager: Jeff Lee
Project: Holland FV	Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-23 SB12-1 [Soil] Sampled 05/11/21 12:55 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 12:55	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 12:55	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 12:55	
8081 Pesticides	05/19/21 15:00	5	05/25/21 12:55	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 12:55	
T211590-24 SB12-5 [Soil] Sampled 05/11/21 13:10 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 13:10	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 13:10	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 13:10	
8081 Pesticides	05/19/21 15:00	5	05/25/21 13:10	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 13:10	
T211590-25 SB13-1 [Soil] Sampled 05/11/21 12:25 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 12:25	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 12:25	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 12:25	
8081 Pesticides	05/19/21 15:00	5	05/25/21 12:25	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 12:25	
T211590-26 SB13-5 [Soil] Sampled 05/11/21 12:30 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 12:30	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 12:30	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 12:30	
8081 Pesticides	05/19/21 15:00	5	05/25/21 12:30	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 12:30	
T211590-27 SB14-1 [Soil] Sampled 05/11/21 11:55 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 11:55	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:55	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:55	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:55	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:55	

WORK ORDER

T211590

Client: Northgate Environmental Management -- Laguna Hills	Project Manager: Jeff Lee
Project: Holland FV	Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-28 SB14-5 [Soil] Sampled 05/11/21 12:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 12:05	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 12:05	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 12:05	
8081 Pesticides	05/19/21 15:00	5	05/25/21 12:05	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 12:05	
T211590-29 SB15-1 [Soil] Sampled 05/11/21 11:35 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 11:35	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:35	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:35	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:35	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:35	
T211590-30 SB15-5 [Soil] Sampled 05/11/21 11:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 11:40	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:40	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:40	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:40	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:40	
T211590-31 SB16-1 [Soil] Sampled 05/11/21 11:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 11:15	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:15	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:15	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:15	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:15	
T211590-32 SB16-5 [Soil] Sampled 05/11/21 11:25 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 11:25	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:25	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:25	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:25	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:25	

WORK ORDER

T211590

Client: Northgate Environmental Management -- Laguna Hills	Project Manager: Jeff Lee
Project: Holland FV	Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211590-33 GW-2 [Water] Sampled 05/11/21 16:00 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC LLvL	05/19/21 15:00	5	05/25/21 16:00	Limited sample volumn, use only 2 VOAs per analysis
8260 - Full QC	05/19/21 15:00	5	05/25/21 16:00	Limited sample volumn, use only 2 VOAs per analysis
T211590-34 SB9-1 [Soil] Sampled 05/11/21 11:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 11:40	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:40	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:40	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:40	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:40	
T211590-35 SB9-5 [Soil] Sampled 05/11/21 11:45 (GMT-08:00) Pacific Time (US &				
6010 Title 22 Full QC	05/19/21 15:00	5	05/16/21 11:45	
8015 CC (D/MO)	05/19/21 15:00	5	05/25/21 11:45	
8015 m 5035-GRO	05/19/21 15:00	5	05/25/21 11:45	
8081 Pesticides	05/19/21 15:00	5	05/25/21 11:45	
8260 5035 - Full QC	05/19/21 15:00	5	05/25/21 11:45	

Analysis groups included in this work order

6010 Title 22 Full QC

subgroup 6010B T22 Full List 7470/71 Hg



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20 May 2021

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653
RE: Former Boomers

Enclosed are the results of analyses for samples received by the laboratory on 05/13/21 15:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Lee
Project Manager



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Former Boomers
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 16:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C1	T211614-01	Solid	05/13/21 11:20	05/13/21 15:10
C2	T211614-02	Solid	05/13/21 11:45	05/13/21 15:10
C3	T211614-03	Solid	05/13/21 12:10	05/13/21 15:10
C4	T211614-04	Solid	05/13/21 12:35	05/13/21 15:10
C5	T211614-05	Solid	05/13/21 13:00	05/13/21 15:10
C6	T211614-06	Solid	05/13/21 13:30	05/13/21 15:10

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Former Boomers
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 16:35

DETECTIONS SUMMARY

Sample ID: C1

Laboratory ID: T211614-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Silver	2.5	2.0	mg/kg	EPA 6010b	
Barium	58	1.0	mg/kg	EPA 6010b	
Chromium	7.1	2.0	mg/kg	EPA 6010b	
Cobalt	5.7	2.0	mg/kg	EPA 6010b	
Copper	14	1.0	mg/kg	EPA 6010b	
Lead	3.7	3.0	mg/kg	EPA 6010b	
Nickel	7.0	2.0	mg/kg	EPA 6010b	
Vanadium	11	5.0	mg/kg	EPA 6010b	
Zinc	21	1.0	mg/kg	EPA 6010b	

Sample ID: C2

Laboratory ID: T211614-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Silver	2.9	2.0	mg/kg	EPA 6010b	
Barium	55	1.0	mg/kg	EPA 6010b	
Chromium	8.3	2.0	mg/kg	EPA 6010b	
Cobalt	4.4	2.0	mg/kg	EPA 6010b	
Copper	13	1.0	mg/kg	EPA 6010b	
Lead	3.4	3.0	mg/kg	EPA 6010b	
Nickel	7.6	2.0	mg/kg	EPA 6010b	
Vanadium	13	5.0	mg/kg	EPA 6010b	
Zinc	26	1.0	mg/kg	EPA 6010b	

Sample ID: C3

Laboratory ID: T211614-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Silver	2.8	2.0	mg/kg	EPA 6010b	
Barium	96	1.0	mg/kg	EPA 6010b	
Chromium	6.3	2.0	mg/kg	EPA 6010b	
Cobalt	3.7	2.0	mg/kg	EPA 6010b	
Copper	5.4	1.0	mg/kg	EPA 6010b	

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24411 Ridge Route Drive, Suite 130
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Project: Former Boomers
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 16:35

Sample ID: C3

Laboratory ID: T211614-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Nickel	4.4	2.0	mg/kg	EPA 6010b	
Vanadium	12	5.0	mg/kg	EPA 6010b	
Zinc	18	1.0	mg/kg	EPA 6010b	

Sample ID: C4

Laboratory ID: T211614-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	74	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	2700	10	mg/kg	EPA 8015B	
Silver	4.0	2.0	mg/kg	EPA 6010b	
Barium	56	1.0	mg/kg	EPA 6010b	
Chromium	13	2.0	mg/kg	EPA 6010b	
Cobalt	3.6	2.0	mg/kg	EPA 6010b	
Copper	7.4	1.0	mg/kg	EPA 6010b	
Nickel	8.7	2.0	mg/kg	EPA 6010b	
Vanadium	20	5.0	mg/kg	EPA 6010b	
Zinc	53	1.0	mg/kg	EPA 6010b	

Sample ID: C5

Laboratory ID: T211614-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Silver	2.3	2.0	mg/kg	EPA 6010b	
Barium	71	1.0	mg/kg	EPA 6010b	
Chromium	16	2.0	mg/kg	EPA 6010b	
Cobalt	4.6	2.0	mg/kg	EPA 6010b	
Copper	7.5	1.0	mg/kg	EPA 6010b	
Lead	5.1	3.0	mg/kg	EPA 6010b	
Nickel	6.5	2.0	mg/kg	EPA 6010b	
Vanadium	19	5.0	mg/kg	EPA 6010b	
Zinc	30	1.0	mg/kg	EPA 6010b	

Sample ID: C6

Laboratory ID: T211614-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			

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Jeff Lee, Project Manager



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24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Former Boomers
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 16:35

Sample ID: C6

Laboratory ID: T211614-06

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	120	1.0		mg/kg	EPA 6010b	
Chromium	14	2.0		mg/kg	EPA 6010b	
Cobalt	5.3	2.0		mg/kg	EPA 6010b	
Copper	11	1.0		mg/kg	EPA 6010b	
Nickel	6.8	2.0		mg/kg	EPA 6010b	
Vanadium	21	5.0		mg/kg	EPA 6010b	
Zinc	26	1.0		mg/kg	EPA 6010b	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Former Boomers
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 16:35

C1
T211614-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051320	05/13/21	05/19/21	EPA 6010b	
Silver	2.5	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	58	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	7.1	2.0	"	"	"	"	"	"	
Cobalt	5.7	2.0	"	"	"	"	"	"	
Copper	14	1.0	"	"	"	"	"	"	
Lead	3.7	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.0	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	11	5.0	"	"	"	"	"	"	
Zinc	21	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051319	05/13/21	05/14/21	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Former Boomers
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 16:35

C2

T211614-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051320	05/13/21	05/19/21	EPA 6010b	
Silver	2.9	2.0	"	"	"	"	05/19/21	"	
Arsenic	ND	5.0	"	"	"	"	05/19/21	"	
Barium	55	1.0	"	"	"	"	05/19/21	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	05/19/21	"	
Chromium	8.3	2.0	"	"	"	"	05/19/21	"	
Cobalt	4.4	2.0	"	"	"	"	05/19/21	"	
Copper	13	1.0	"	"	"	"	05/19/21	"	
Lead	3.4	3.0	"	"	"	"	05/19/21	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.6	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	13	5.0	"	"	"	"	05/19/21	"	
Zinc	26	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051319	05/13/21	05/14/21	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



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24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Former Boomers
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 16:35

C3

T211614-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051320	05/13/21	05/19/21	EPA 6010b	
Silver	2.8	2.0	"	"	"	"	05/19/21	"	
Arsenic	ND	5.0	"	"	"	"	05/19/21	"	
Barium	96	1.0	"	"	"	"	05/19/21	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	05/19/21	"	
Chromium	6.3	2.0	"	"	"	"	05/19/21	"	
Cobalt	3.7	2.0	"	"	"	"	05/19/21	"	
Copper	5.4	1.0	"	"	"	"	05/19/21	"	
Lead	ND	3.0	"	"	"	"	05/19/21	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	4.4	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	12	5.0	"	"	"	"	05/19/21	"	
Zinc	18	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051319	05/13/21	05/14/21	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



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Laguna Hills CA, 92653

Project: Former Boomers
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 16:35

C4
T211614-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	1051338	05/13/21	05/15/21	EPA 8015B	
C13-C28 (DRO)	74	10	"	"	"	"	"	"	
C29-C40 (MORO)	2700	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		111 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051320	05/13/21	05/19/21	EPA 6010b	
Silver	4.0	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	56	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	05/19/21	"	
Cadmium	ND	2.0	"	"	"	"	05/19/21	"	
Chromium	13	2.0	"	"	"	"	"	"	
Cobalt	3.6	2.0	"	"	"	"	"	"	
Copper	7.4	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.7	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	20	5.0	"	"	"	"	"	"	
Zinc	53	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051319	05/13/21	05/14/21	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Former Boomers
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 16:35

C5
T211614-05 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051320	05/13/21	05/19/21	EPA 6010b	
Silver	2.3	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	71	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	16	2.0	"	"	"	"	"	"	
Cobalt	4.6	2.0	"	"	"	"	"	"	
Copper	7.5	1.0	"	"	"	"	"	"	
Lead	5.1	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.5	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	19	5.0	"	"	"	"	"	"	
Zinc	30	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051319	05/13/21	05/14/21	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Former Boomers
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 16:35

C6
T211614-06 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	1051320	05/13/21	05/19/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	120	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	14	2.0	"	"	"	"	"	"	
Cobalt	5.3	2.0	"	"	"	"	"	"	
Copper	11	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.8	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	21	5.0	"	"	"	"	"	"	
Zinc	26	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	1051319	05/13/21	05/14/21	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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24411 Ridge Route Drive, Suite 130
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Project: Former Boomers
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 16:35

Extractable Petroleum Hydrocarbons by 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051338 - EPA 3550B GC

Blank (1051338-BLK1)

Prepared: 05/13/21 Analyzed: 05/15/21

C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	112		"	100		112	65-135			

LCS (1051338-BS1)

Prepared: 05/13/21 Analyzed: 05/15/21

C13-C28 (DRO)	440	10	mg/kg	505		86.7	75-125			
Surrogate: <i>p</i> -Terphenyl	110		"	100		110	65-135			

LCS Dup (1051338-BSD1)

Prepared: 05/13/21 Analyzed: 05/15/21

C13-C28 (DRO)	440	10	mg/kg	500		87.3	75-125	0.265	20	
Surrogate: <i>p</i> -Terphenyl	108		"	100		108	65-135			

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Former Boomers
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 16:35

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051320 - EPA 3050B

Blank (1051320-BLK1)

Prepared: 05/13/21 Analyzed: 05/17/21

Antimony	ND	3.0	mg/kg
Silver	ND	2.0	"
Arsenic	ND	5.0	"
Barium	ND	1.0	"
Beryllium	ND	1.0	"
Cadmium	ND	2.0	"
Chromium	ND	2.0	"
Cobalt	ND	2.0	"
Copper	ND	1.0	"
Lead	ND	3.0	"
Molybdenum	ND	5.0	"
Nickel	ND	2.0	"
Selenium	ND	5.0	"
Thallium	ND	5.0	"
Vanadium	ND	5.0	"
Zinc	ND	1.0	"

LCS (1051320-BS1)

Prepared: 05/13/21 Analyzed: 05/17/21

Arsenic	95.9	5.0	mg/kg	100	95.9	75-125
Barium	100	1.0	"	100	100	75-125
Cadmium	99.9	2.0	"	100	99.9	75-125
Chromium	98.5	2.0	"	100	98.5	75-125
Lead	98.7	3.0	"	100	98.7	75-125

Matrix Spike (1051320-MS1)

Source: T211603-01

Prepared: 05/13/21 Analyzed: 05/17/21

Arsenic	90.7	5.0	mg/kg	97.1	ND	93.4	75-125
Barium	98.1	1.0	"	97.1	1.27	99.8	75-125
Cadmium	96.8	2.0	"	97.1	0.309	99.4	75-125
Chromium	94.7	2.0	"	97.1	0.373	97.2	75-125
Lead	88.6	3.0	"	97.1	ND	91.3	75-125

SunStar Laboratories, Inc.

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24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Former Boomers
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 16:35

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051320 - EPA 3050B

Matrix Spike Dup (1051320-MSD1)

Source: T211603-01

Prepared: 05/13/21 Analyzed: 05/17/21

Arsenic	85.9	5.0	mg/kg	91.7	ND	93.7	75-125	5.44	20	
Barium	91.4	1.0	"	91.7	1.27	98.2	75-125	7.12	20	
Cadmium	90.5	2.0	"	91.7	0.309	98.3	75-125	6.82	20	
Chromium	88.9	2.0	"	91.7	0.373	96.5	75-125	6.39	20	
Lead	83.7	3.0	"	91.7	ND	91.2	75-125	5.73	20	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Former Boomers
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 16:35

Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1051319 - EPA 7471A Soil

Blank (1051319-BLK1)

Prepared: 05/13/21 Analyzed: 05/14/21

Mercury	ND	0.10	mg/kg							
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LCS (1051319-BS1)

Prepared: 05/13/21 Analyzed: 05/14/21

Mercury	0.410	0.10	mg/kg	0.417		98.5	80-120			
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Matrix Spike (1051319-MS1)

Source: T211603-01

Prepared: 05/13/21 Analyzed: 05/14/21

Mercury	0.149	0.10	mg/kg	0.417	ND	35.8	75-125			QM-05
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Matrix Spike Dup (1051319-MSD1)

Source: T211603-01

Prepared: 05/13/21 Analyzed: 05/14/21

Mercury	0.146	0.10	mg/kg	0.397	ND	36.9	75-125	1.96	20	QM-05
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SunStar Laboratories, Inc.

Jeff Lee, Project Manager

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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Former Boomers
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/20/21 16:35

Notes and Definitions

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commerce Drive, Lake Forest, CA 92630
949-297-5020

Client: Northgate Env

Address: 24111 Ridge Route Dr, Laguna Hills

Phone: 714 604 6726

Project Manager: Derrick Willis

Date: 05/13/2021

Page: 1 Of 1

Project Name: Former Boomers

Collector: Ricardo Muñoz Client Project #: 2097, 28.025

Batch #: T211614

EDF #: Report EDD

Laboratory ID #		Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	asbestos	PLM	Total # of containers	Notes
01	C1	05/13/21	1030	concrete	40L Jar															
02	C2		1145																	
03	C3		1210																	
04	C4		1235																	
05	C5		1300																	
06	C6		1330																	
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time		Total # of containers		Chain of Custody seals Y/N/NA		Seals intact? Y/N/NA		Received good condition/cold		Turn around time: 54d		4.1°C		
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time		Total # of containers		Chain of Custody seals Y/N/NA		Seals intact? Y/N/NA		Received good condition/cold		Turn around time: 54d		4.1°C		

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T211614

Client Name: Northgate Project: Former Boomers

Delivered by: ☒ Client ☐ SunStar Courier ☐ GLS ☐ FedEx ☐ Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: Jeff Date/Time Lab Received: 5.13.21 1510

Total number of coolers received: 1 Thermometer ID: SC-GUN Calibration due: 8/17/21

Temperature: Cooler #1	4.3	°C +/- the CF (-0.2°C) =	4.1	°C corrected temperature
Temperature: Cooler #2		°C +/- the CF (-0.2°C) =		°C corrected temperature
Temperature: Cooler #3		°C +/- the CF (-0.2°C) =		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria?		☒ Yes ☐ No ☐ N/A
If NO:				
Samples received on ice?		☐ Yes	☐ No → Complete Non-Conformance Sheet	
If on ice, samples received same day collected?		☐ Yes → Acceptable	☐ No → Complete Non-Conformance Sheet	

Custody seals intact on cooler/sample ☐ Yes ☐ No* ☒ N/A

Sample containers intact ☒ Yes ☐ No*

Sample labels match Chain of Custody IDs ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☐ Yes ☐ No* ☒ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: AB 5.13.21

Comments: _____



2211 West Orangewood Avenue
Orange, CA 92868
Tel: (714) 937-0750
Fax: (714) 937-0755
www.envirocheck.com
(800) 665-7586

This report contains data that are not covered by the
NVLAP accreditation

Asbestos Laboratory Report, Page 1 of 1

Customer: SunStar Laboratories
Attention: Jeff Lee
25712 Commercentre Drive
Lake Forest, CA 92630

Job Location: T211614

	1121051572	1121051573	1121051574	1121051575	1121051576	1121051577
Sample #	1	2	3	4	5	6
Asbestos	No	No	No	No	No	No
Total	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

1° Type

2° Type

3° Type

Location	T211614-01	T211614-02	T211614-03	T211614-04	T211614-05	T211614-06
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Material	Debris***	Debris***	Debris***	Debris***	Debris***	Debris***
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Notes

Color	Gray	Gray	Gray	Gray	Gray	Gray
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Homogeneous	Yes	Yes	Yes	Yes	Yes	Yes
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Materials:

Minerals	x	x	x	x	x	x				
Calcite	x	x	x	x	x	x				
Gypsum										
Mica		x	x	x	x	x				
Perlite										
Plastic										
Paint										
Tar										
Cellulose	<1%									
Fiberglass										
Synthetic Fib.										
Other 1										
Other 2										

Comments/ Method	None	None	None	None	None	None
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Departures

Reception Date: 05/14/2021

Analysis Date: 05/18/2021, 05/19/2021

Report Date: 05/19/2021

Analyst:

Elaine Espinoza

Admin QC: DD

Lab QC: JS

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the customer requests otherwise. This report shall not be reproduced except in full, without the written approval of the laboratory. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government. Test results relate only to the items tested. Asbestos percentage obtained through calibrated visual estimate. Components of inhomogeneous samples not analyzed separately unless listed as a sub-sample.

***Various sample locations combined for composite purposes. ***Not covered by NVLAP accreditation. Standard Deviation is $\pm 45.5\%$ of asbestos concentration (1 Standard Deviation).

WORK ORDER

Printed: 5/13/2021 3:28:23PM

T211614

SunStar Laboratories, Inc.

Client: Northgate Environmental Management -- Laguna
Project: Former Boomers

Project Manager: Jeff Lee
Project Number: 2047.28.025

Report To:

Northgate Environmental Management -- Laguna Hills
 Derrick Willis
 24411 Ridge Route Drive, Suite 130
 Laguna Hills, CA 92653
 Phone: (949) 716-0050
 Fax: (949) 230-0643

Invoice To:

Northgate Environmental Management -- Laguna Hills
 Derrick Willis
 24411 Ridge Route Drive, Suite 130
 Laguna Hills, CA 92653
 Phone : (949) 716-0050
 Fax: (949) 230-0643

Date Due: 05/20/21 17:00 (5 day TAT)

Received By: Jeff Lee

Date Received: 05/13/21 15:10

Logged In By: Jeff Lee

Date Logged In: 05/13/21 15:23

Samples Received at: 4.1°C

Custody Seals No Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir No

Analysis	Due	TAT	Expires	Comments
T211614-01 C1 [Soil] Sampled 05/13/21 11:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	05/20/21 15:00	5	11/09/21 11:20	
T211614-02 C2 [Soil] Sampled 05/13/21 11:45 (GMT-08:00) Pacific Time (US &				
6010 Title 22	05/20/21 15:00	5	11/09/21 11:45	
T211614-03 C3 [Soil] Sampled 05/13/21 12:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	05/20/21 15:00	5	11/09/21 12:10	
T211614-04 C4 [Soil] Sampled 05/13/21 12:35 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	05/20/21 15:00	5	05/27/21 12:35	
6010 Title 22	05/20/21 15:00	5	11/09/21 12:35	
T211614-05 C5 [Soil] Sampled 05/13/21 13:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	05/20/21 15:00	5	11/09/21 13:00	
T211614-06 C6 [Soil] Sampled 05/13/21 13:30 (GMT-08:00) Pacific Time (US &				
6010 Title 22	05/20/21 15:00	5	11/09/21 13:30	

Envirocheck, Inc.

T211614-01 C1 [Soil] Sampled 05/13/21 11:20 (GMT-08:00) Pacific Time (US &

Misc. Subcontract (see notes) 05/20/21 15:00 5 11/09/21 11:20 Asbestos Bulk by PLM Normal TAT

T211614-02 C2 [Soil] Sampled 05/13/21 11:45 (GMT-08:00) Pacific Time (US &

Misc. Subcontract (see notes) 05/20/21 15:00 5 11/09/21 11:45 Asbestos Bulk by PLM Normal TAT

WORK ORDER

Printed: 5/13/2021 3:28:23PM

T211614**SunStar Laboratories, Inc.****Client:** Northgate Environmental Management -- Laguna
Project: Former Boomers**Project Manager:** Jeff Lee
Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
Envirocheck, Inc.				
T211614-03 C3 [Soil] Sampled 05/13/21 12:10 (GMT-08:00) Pacific Time (US &				
Misc. Subcontract (see notes)	05/20/21 15:00	5	11/09/21 12:10	Asbestos Bulk by PLM Normal TAT
T211614-04 C4 [Soil] Sampled 05/13/21 12:35 (GMT-08:00) Pacific Time (US &				
Misc. Subcontract (see notes)	05/20/21 15:00	5	11/09/21 12:35	Asbestos Bulk by PLM Normal TAT
T211614-05 C5 [Soil] Sampled 05/13/21 13:00 (GMT-08:00) Pacific Time (US &				
Misc. Subcontract (see notes)	05/20/21 15:00	5	11/09/21 13:00	Asbestos Bulk by PLM Normal TAT
T211614-06 C6 [Soil] Sampled 05/13/21 13:30 (GMT-08:00) Pacific Time (US &				
Misc. Subcontract (see notes)	05/20/21 15:00	5	11/09/21 13:30	Asbestos Bulk by PLM Normal TAT

Analysis groups included in this work order6010 Title 22

subgroup 6010B T22 7470/71 Hg

Reviewed By

Date



25712 Commercentre Drive
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25 May 2021

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653
RE: Holland FV

Enclosed are the results of analyses for samples received by the laboratory on 05/14/21 15:03. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jeff Lee', is shown within a light gray rectangular border.

Jeff Lee
Project Manager



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV2	T211625-01	Air	05/13/21 06:44	05/14/21 15:03
SV5	T211625-02	Air	05/13/21 07:18	05/14/21 15:03
SV11	T211625-03	Air	05/13/21 07:53	05/14/21 15:03
SV7	T211625-04	Air	05/13/21 08:43	05/14/21 15:03
SV13	T211625-05	Air	05/13/21 09:25	05/14/21 15:03
SV3	T211625-06	Air	05/13/21 09:56	05/14/21 15:03

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24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

DETECTIONS SUMMARY

Sample ID: SV2

Laboratory ID: T211625-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Isopropyl alcohol	27	13	ug/m ³ Air	TO-15	
Chloroform	330	5.0	ug/m ³ Air	TO-15	
Cyclohexane	980	3.5	ug/m ³ Air	TO-15	
Heptane	780	4.2	ug/m ³ Air	TO-15	
Hexane	1100	3.6	ug/m ³ Air	TO-15	
4-Ethyltoluene	590	5.0	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	760	5.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	2500	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	25	15	ug/m ³ Air	TO-15	
Benzene	1300	3.3	ug/m ³ Air	TO-15	
Toluene	5200	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	1700	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	5400	8.8	ug/m ³ Air	TO-15	
o-Xylene	2100	4.4	ug/m ³ Air	TO-15	

Sample ID: SV5

Laboratory ID: T211625-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	16	12	ug/m ³ Air	TO-15	
Carbon Disulfide	5.4	3.2	ug/m ³ Air	TO-15	
Isopropyl alcohol	13	13	ug/m ³ Air	TO-15	
Chlorobenzene	29	4.7	ug/m ³ Air	TO-15	
Chloroform	840	5.0	ug/m ³ Air	TO-15	
Cyclohexane	18	3.5	ug/m ³ Air	TO-15	
Heptane	13	4.2	ug/m ³ Air	TO-15	
Hexane	18	3.6	ug/m ³ Air	TO-15	
4-Ethyltoluene	9.3	5.0	ug/m ³ Air	TO-15	
Tetrahydrofuran	19	3.0	ug/m ³ Air	TO-15	
Tetrachloroethene	5.7	6.9	ug/m ³ Air	TO-15	J
Trichloroethene	13	5.5	ug/m ³ Air	TO-15	
Trichlorofluoromethane	93	5.7	ug/m ³ Air	TO-15	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

Sample ID: SV5

Laboratory ID: T211625-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
1,3,5-Trimethylbenzene	8.8	5.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	30	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	7.3	15	ug/m ³ Air	TO-15	J
Benzene	13	3.3	ug/m ³ Air	TO-15	
Toluene	54	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	23	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	83	8.8	ug/m ³ Air	TO-15	
o-Xylene	28	4.4	ug/m ³ Air	TO-15	

Sample ID: SV11

Laboratory ID: T211625-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	23	12	ug/m ³ Air	TO-15	
Carbon Disulfide	7.2	3.2	ug/m ³ Air	TO-15	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	23	7.7	ug/m ³ Air	TO-15	
Chloroform	6.8	5.0	ug/m ³ Air	TO-15	
Cyclohexane	26	3.5	ug/m ³ Air	TO-15	
Hexane	5.1	3.6	ug/m ³ Air	TO-15	
Tetrahydrofuran	12	3.0	ug/m ³ Air	TO-15	
Trichloroethene	41	5.5	ug/m ³ Air	TO-15	
Trichlorofluoromethane	230	5.7	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	12	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	7.4	15	ug/m ³ Air	TO-15	J
Benzene	4.4	3.3	ug/m ³ Air	TO-15	
Toluene	18	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	6.5	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	31	8.8	ug/m ³ Air	TO-15	
o-Xylene	12	4.4	ug/m ³ Air	TO-15	

Sample ID: SV7

Laboratory ID: T211625-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	18	12	ug/m ³ Air	TO-15	
Carbon Disulfide	3.0	3.2	ug/m ³ Air	TO-15	J
Isopropyl alcohol	85	13	ug/m ³ Air	TO-15	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

Sample ID: SV7

Laboratory ID: T211625-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Chloroform	5.1	5.0	ug/m ³ Air	TO-15	
Cyclohexane	7.4	3.5	ug/m ³ Air	TO-15	
Tetrahydrofuran	8.7	3.0	ug/m ³ Air	TO-15	
Tetrachloroethene	87	6.9	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	9.4	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	10	15	ug/m ³ Air	TO-15	J
m,p-Xylene	4.5	8.8	ug/m ³ Air	TO-15	J

Sample ID: SV13

Laboratory ID: T211625-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	19	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	8.1	13	ug/m ³ Air	TO-15	J
Chloroform	15	5.0	ug/m ³ Air	TO-15	
Trichloroethene	8.2	5.5	ug/m ³ Air	TO-15	
2-Butanone (MEK)	5.9	15	ug/m ³ Air	TO-15	J
Toluene	3.5	3.8	ug/m ³ Air	TO-15	J
m,p-Xylene	5.4	8.8	ug/m ³ Air	TO-15	J
o-Xylene	3.7	4.4	ug/m ³ Air	TO-15	J

Sample ID: SV3

Laboratory ID: T211625-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	11	12	ug/m ³ Air	TO-15	J
Carbon Disulfide	3.3	3.2	ug/m ³ Air	TO-15	
Isopropyl alcohol	210	13	ug/m ³ Air	TO-15	
Chloroform	760	5.0	ug/m ³ Air	TO-15	
Cyclohexane	17	3.5	ug/m ³ Air	TO-15	
Tetrahydrofuran	8.5	3.0	ug/m ³ Air	TO-15	
Ethylbenzene	10	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	62	8.8	ug/m ³ Air	TO-15	
o-Xylene	19	4.4	ug/m ³ Air	TO-15	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

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SV2

T211625-01(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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TO-15

Acetone	ND	0.49	12	ug/m ³ Air	14.12	1052421	05/24/21	05/25/21	TO-15
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	27	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	330	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	980	0.16	3.5	"	"	"	"	"	"
Heptane	780	0.15	4.2	"	"	"	"	"	"
Hexane	1100	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	590	0.25	5.0	"	"	"	"	"	"
Methylene chloride	ND	0.079	27	"	"	"	"	"	"

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

SV2

T211625-01(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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TO-15

Styrene	ND	0.19	4.3	ug/m ³ Air	14.12	1052421	05/24/21	05/25/21	TO-15
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"
1,3,5-Trimethylbenzene	760	0.49	5.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	2500	0.33	5.0	"	"	"	"	"	"
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"
2-Butanone (MEK)	25	0.45	15	"	"	"	"	"	"
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"
Benzene	1300	0.14	3.3	"	"	"	"	"	"
Toluene	5200	0.14	3.8	"	"	"	"	"	"
Ethylbenzene	1700	0.14	4.4	"	"	"	"	"	"
m,p-Xylene	5400	0.20	8.8	"	"	"	"	"	"
o-Xylene	2100	0.085	4.4	"	"	"	"	"	"

Surrogate: 4-Bromofluorobenzene 93.2 % 59.2-130 " " " "

Methane by GC

Methane	ND	0.68	8.2	ppm(v)	1.65	1052518	05/25/21	05/25/21	SUN-GC-008
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

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SV2

T211625-01(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Hydrogen Sulfide by GCMS

Hydrogen sulfide	ND	0.016	1.65	ppm(v)	1.65	1052418	05/24/21	05/24/21	TO-14m	
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

SV5

T211625-02(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	16	0.49	12	ug/m³ Air	1.46	1052421	05/24/21	05/25/21	TO-15	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	5.4	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	13	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	29	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	840	0.15	5.0	"	7.3	"	"	"	"	
Chloromethane	ND	0.46	11	"	1.46	"	"	"	"	
Cyclohexane	18	0.16	3.5	"	"	"	"	"	"	
Heptane	13	0.15	4.2	"	"	"	"	"	"	
Hexane	18	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	9.3	0.25	5.0	"	"	"	"	"	"	
Methylene chloride	ND	0.079	27	"	"	"	"	"	"	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	

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Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

SV5

T211625-02(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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TO-15

1,1,2,2-Tetrachloroethane	ND	0.54	7.0	ug/m³ Air	1.46	1052421	05/24/21	05/25/21	TO-15	
Tetrahydrofuran	19	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	5.7	0.21	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	13	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	93	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	8.8	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	30	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	7.3	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	13	0.14	3.3	"	"	"	"	"	"	
Toluene	54	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	23	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	83	0.20	8.8	"	"	"	"	"	"	
o-Xylene	28	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 90.0 % 59.2-130 " " " "

Methane by GC

Methane	ND	0.60	7.3	ppm(v)	1.46	1052518	05/25/21	05/25/21	SUN-GC-008	
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Hydrogen Sulfide by GCMS

Hydrogen sulfide	ND	0.015	1.46	ppm(v)	1.46	1052418	05/24/21	05/24/21	TO-14m	
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SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

SV11

T211625-03(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	23	0.49	12	ug/m³ Air	1.82	1052421	05/24/21	05/25/21	TO-15	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	7.2	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	23	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	6.8	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	26	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	5.1	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	
Methylene chloride	ND	0.079	27	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

SV11
T211625-03(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Styrene	ND	0.19	4.3	ug/m ³ Air	1.82	1052421	05/24/21	05/25/21	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	12	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	41	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	230	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	12	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	7.4	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	4.4	0.14	3.3	"	"	"	"	"	"	
Toluene	18	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	6.5	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	31	0.20	8.8	"	"	"	"	"	"	
o-Xylene	12	0.085	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			94.8 %	59.2-130		"	"	"	"	

Methane by GC

Methane	ND	0.75	9.1	ppm(v)	1.82	1052518	05/25/21	05/25/21	SUN-GC-008	
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

SV11

T211625-03(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Hydrogen Sulfide by GCMS

Hydrogen sulfide	ND	0.018	1.82	ppm(v)	1.82	1052418	05/24/21	05/24/21	TO-14m	
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

SV7

T211625-04(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	18	0.49	12	ug/m³ Air	1.6	1052421	05/24/21	05/25/21	TO-15	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	3.0	0.22	3.2	"	"	"	"	"	"	J
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	85	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	5.1	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	7.4	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	
Methylene chloride	ND	0.079	27	"	"	"	"	"	"	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

SV7

T211625-04(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Styrene	ND	0.19	4.3	ug/m³ Air	1.6	1052421	05/24/21	05/25/21	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	8.7	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	87	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	9.4	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	10	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	ND	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	4.5	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 96.2 % 59.2-130 " " " "

Methane by GC

Methane	ND	0.66	8.0	ppm(v)	1.6	1052518	05/25/21	05/25/21	SUN-GC-008	
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

SV7

T211625-04(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Hydrogen Sulfide by GCMS

Hydrogen sulfide	ND	0.016	1.60	ppm(v)	1.6	1052418	05/24/21	05/24/21	TO-14m	
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

SV13

T211625-05(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	19	0.49	12	ug/m ³ Air	1.62	1052421	05/24/21	05/25/21	TO-15	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	8.1	0.55	13	"	"	"	"	"	"	J
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	15	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	
Methylene chloride	ND	0.079	27	"	"	"	"	"	"	

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24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

SV13

T211625-05(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Styrene	ND	0.19	4.3	ug/m³ Air	1.62	1052421	05/24/21	05/25/21	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	8.2	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	5.9	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	3.5	0.14	3.8	"	"	"	"	"	"	J
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	5.4	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	3.7	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene 100 % 59.2-130 " " " "

Methane by GC

Methane	ND	0.67	8.1	ppm(v)	1.62	1052518	05/25/21	05/25/21	SUN-GC-008	
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Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

SV13

T211625-05(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Hydrogen Sulfide by GCMS

Hydrogen sulfide	ND	0.016	1.62	ppm(v)	1.62	1052418	05/24/21	05/24/21	TO-14m	
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

SV3

T211625-06(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	11	0.49	12	ug/m ³ Air	1.67	1052421	05/24/21	05/25/21	TO-15	J
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	3.3	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	210	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	760	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	17	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	
Methylene chloride	ND	0.079	27	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

SV3

T211625-06(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Styrene	ND	0.19	4.3	ug/m ³ Air	1.67	1052421	05/24/21	05/25/21	TO-15
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"
Tetrahydrofuran	8.5	0.25	3.0	"	"	"	"	"	"
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"
Benzene	ND	0.14	3.3	"	"	"	"	"	"
Toluene	ND	0.14	3.8	"	"	"	"	"	"
Ethylbenzene	10	0.14	4.4	"	"	"	"	"	"
m,p-Xylene	62	0.20	8.8	"	"	"	"	"	"
o-Xylene	19	0.085	4.4	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene			88.9 %	59.2-130	"	"	"	"	"

Methane by GC

Methane	ND	0.69	8.4	ppm(v)	1.67	1052518	05/25/21	05/25/21	SUN-GC-008
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

SV3

T211625-06(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Hydrogen Sulfide by GCMS

Hydrogen sulfide	ND	0.017	1.67	ppm(v)	1.67	1052418	05/24/21	05/24/21	TO-14m	
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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1052421 - Canister Analysis

Blank (1052421-BLK1)

Prepared: 05/24/21 Analyzed: 05/25/21

Surrogate: 4-Bromofluorobenzene	366			ug/m ³ Air	362		101	59.2-130			
1,1-Difluoroethane (Freon 152)	ND	3.3	27	"							
Acetone	ND	0.49	12	"							
1,3-Butadiene	ND	0.29	4.5	"							
Carbon Disulfide	ND	0.22	3.2	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"							
Isopropyl alcohol	ND	0.55	13	"							
Bromodichloromethane	ND	0.16	6.8	"							
Bromoform	ND	0.23	11	"							
Bromomethane	ND	0.55	20	"							
Carbon tetrachloride	ND	0.055	6.4	"							
Chlorobenzene	ND	0.098	4.7	"							
Chloroethane	ND	0.35	2.7	"							
Chloroform	ND	0.15	5.0	"							
Chloromethane	ND	0.46	11	"							
Cyclohexane	ND	0.16	3.5	"							
Heptane	ND	0.15	4.2	"							
Hexane	ND	0.43	3.6	"							
Dibromochloromethane	ND	0.26	8.7	"							
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"							
1,2-Dichlorobenzene	ND	0.36	31	"							
1,3-Dichlorobenzene	ND	0.43	31	"							
1,4-Dichlorobenzene	ND	0.44	31	"							
Dichlorodifluoromethane	ND	0.18	5.0	"							
1,1-Dichloroethane	ND	0.23	4.1	"							
1,2-Dichloroethane	ND	0.16	4.1	"							

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Reported:
05/25/21 15:46

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1052421 - Canister Analysis

Blank (1052421-BLK1)

Prepared: 05/24/21 Analyzed: 05/25/21

1,1-Dichloroethene	ND	0.28	4.0	ug/m³ Air
cis-1,2-Dichloroethene	ND	0.25	4.0	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"
1,2-Dichloropropane	ND	0.13	4.7	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"
4-Ethyltoluene	ND	0.25	5.0	"
Methylene chloride	ND	0.079	27	"
Styrene	ND	0.19	4.3	"
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"
Tetrahydrofuran	ND	0.25	3.0	"
Tetrachloroethene	ND	0.21	6.9	"
1,1,2-Trichloroethane	ND	0.19	5.6	"
1,1,1-Trichloroethane	ND	0.24	5.6	"
Trichloroethene	ND	0.21	5.5	"
Trichlorofluoromethane	ND	0.24	5.7	"
1,3,5-Trimethylbenzene	ND	0.49	5.0	"
1,2,4-Trimethylbenzene	ND	0.33	5.0	"
Vinyl acetate	ND	0.18	3.6	"
Vinyl chloride	ND	0.052	2.6	"
1,4-Dioxane	ND	0.97	18	"
2-Butanone (MEK)	ND	0.45	15	"
Methyl isobutyl ketone	ND	0.14	42	"
Benzene	ND	0.14	3.3	"
Toluene	ND	0.14	3.8	"
Ethylbenzene	ND	0.14	4.4	"
m,p-Xylene	ND	0.20	8.8	"

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Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1052421 - Canister Analysis

Blank (1052421-BLK1)

Prepared: 05/24/21 Analyzed: 05/25/21

o-Xylene ND 0.085 4.4 ug/m³ Air

Duplicate (1052421-DUP1)

Source: T211663-01

Prepared: 05/24/21 Analyzed: 05/25/21

<i>Surrogate: 4-Bromofluorobenzene</i>	360			ug/m³ Air	362		99.5	59.2-130			
1,1-Difluoroethane (Freon 152)	ND	3.3	27	"	ND						
Acetone	47.1	0.49	12	"	49.6				5.14	30	
1,3-Butadiene	ND	0.29	4.5	"	ND					30	
Carbon Disulfide	ND	0.22	3.2	"	ND					30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	ND					30	
Isopropyl alcohol	16.1	0.55	13	"	12.4				26.1	30	
Bromodichloromethane	ND	0.16	6.8	"	ND					30	
Bromoform	ND	0.23	11	"	ND					30	
Bromomethane	ND	0.55	20	"	ND					30	
Carbon tetrachloride	ND	0.055	6.4	"	ND					30	
Chlorobenzene	ND	0.098	4.7	"	ND					30	
Chloroethane	ND	0.35	2.7	"	ND					30	
Chloroform	57.2	0.15	5.0	"	45.8				22.1	30	
Chloromethane	ND	0.46	11	"	ND					30	
Cyclohexane	5.10	0.16	3.5	"	5.20				1.94	30	
Heptane	ND	0.15	4.2	"	ND					30	
Hexane	5.99	0.43	3.6	"	6.66				10.5	30	
Dibromochloromethane	ND	0.26	8.7	"	ND					30	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	ND					30	
1,2-Dichlorobenzene	ND	0.36	31	"	ND					30	
1,3-Dichlorobenzene	ND	0.43	31	"	ND					30	
1,4-Dichlorobenzene	ND	0.44	31	"	ND					30	
Dichlorodifluoromethane	ND	0.18	5.0	"	ND					30	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1052421 - Canister Analysis

Duplicate (1052421-DUP1)	Source: T211663-01			Prepared: 05/24/21 Analyzed: 05/25/21							
1,1-Dichloroethane	ND	0.23	4.1	ug/m³ Air		ND				30	
1,2-Dichloroethane	ND	0.16	4.1	"		ND				30	
1,1-Dichloroethene	ND	0.28	4.0	"		ND				30	
cis-1,2-Dichloroethene	ND	0.25	4.0	"		ND				30	
trans-1,2-Dichloroethene	ND	0.22	4.0	"		ND				30	
1,2-Dichloropropane	ND	0.13	4.7	"		ND				30	
cis-1,3-Dichloropropene	ND	0.21	4.6	"		ND				30	
trans-1,3-Dichloropropene	ND	0.21	4.6	"		ND				30	
4-Ethyltoluene	ND	0.25	5.0	"		ND				30	
Methylene chloride	ND	0.079	27	"		ND				30	
Styrene	ND	0.19	4.3	"		ND				30	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"		ND				30	
Tetrahydrofuran	ND	0.25	3.0	"		ND				30	
Tetrachloroethene	8.98	0.21	6.9	"		7.50			18.0	30	
1,1,2-Trichloroethane	ND	0.19	5.6	"		ND				30	
1,1,1-Trichloroethane	8.65	0.24	5.6	"		9.53			9.61	30	
Trichloroethene	ND	0.21	5.5	"		ND				30	
Trichlorofluoromethane	4.02	0.24	5.7	"		ND				30	J
1,3,5-Trimethylbenzene	ND	0.49	5.0	"		ND				30	
1,2,4-Trimethylbenzene	5.51	0.33	5.0	"		5.15			6.71	30	
Vinyl acetate	ND	0.18	3.6	"		ND				30	
Vinyl chloride	ND	0.052	2.6	"		ND				30	
1,4-Dioxane	ND	0.97	18	"		ND				30	
2-Butanone (MEK)	9.90	0.45	15	"		10.2			2.56	30	J
Methyl isobutyl ketone	9.10	0.14	42	"		9.82			7.55	30	J
Benzene	2.93	0.14	3.3	"		2.88			1.60	30	J
Toluene	6.91	0.14	3.8	"		6.41			7.41	30	

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1052421 - Canister Analysis

Duplicate (1052421-DUP1)		Source: T211663-01			Prepared: 05/24/21		Analyzed: 05/25/21				
Ethylbenzene	ND	0.14	4.4	ug/m³ Air	ND					30	
m,p-Xylene	9.35	0.20	8.8	"	7.52				21.7	30	
o-Xylene	ND	0.085	4.4	"	2.65					30	

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Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

Methane by GC - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1052518 - EPA 5030 GC											
Blank (1052518-BLK1)						Prepared & Analyzed: 05/25/21					
Methane	ND	0.41	5.0	ppm(v)							
LCS (1052518-BS1)						Prepared & Analyzed: 05/25/21					
Methane	986	0.41	5.0	ppm(v)	985		100	75-125			
Duplicate (1052518-DUP1)		Source: T211625-01				Prepared & Analyzed: 05/25/21					
Methane	ND	0.68	8.2	ppm(v)		ND				20	

SunStar Laboratories, Inc.

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Laguna Hills CA, 92653

Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

Hydrogen Sulfide by GCMS - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1052418 - Canister Analysis

Blank (1052418-BLK1)

Prepared & Analyzed: 05/24/21

Hydrogen sulfide	ND	0.010	1.00	ppm(v)						
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Duplicate (1052418-DUP1)

Source: T211625-01

Prepared & Analyzed: 05/24/21

Hydrogen sulfide	ND	0.016	1.65	ppm(v)		ND				20
------------------	----	-------	------	--------	--	----	--	--	--	----

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Project: Holland FV
Project Number: 2047.28.025
Project Manager: Derrick Willis

Reported:
05/25/21 15:46

Notes and Definitions

J Detected but below the Standard Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the Method Detection Limit (MDL)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Chain of Custody Record



PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

Date: 05/13/2021 Page: 1 of 1
Project Name: Former Boomers - Holland FU
Collector: Ricardo Munoz Client Project #: 2047.28.025
Batch #: 211625 EDF #: Report EDD

[illegible]

*** TO-15 SLM analysis available upon prior notification. (Precertified Summa cans needed)**



SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #:

Client Name:

Northgate

Project: Former Boomers - Holland EV

Delivered by:

☒ Client ☐ SunStar Courier ☐ GLS ☐ FedEx ☐ Other

If Courier, Received by:

Date/Time Courier

Received:

Lab Received by:

Jeff

Date/Time Lab

Received:

5.13.21 1503

Total number of coolers received: N/A Thermometer ID: SC-GUN Calibration due: 8/17/21

Temperature: Cooler #1	°C +/- the CF (-0.2°C) =	°C corrected temperature
Temperature: Cooler #2	°C +/- the CF (-0.2°C) =	°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (-0.2°C) =	°C corrected temperature
Temperature criteria = $\leq 6^{\circ}\text{C}$ (no frozen containers)		Within criteria? ☐ Yes ☐ No ☒ N/A
If NO:		
Samples received on ice?	☐ Yes	☐ No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	☐ Yes → Acceptable	☐ No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample

☐ Yes ☐ No* ☒ N/A

Sample containers intact

☒ Yes ☐ No*

Sample labels match Chain of Custody IDs

☒ Yes ☐ No*

Total number of containers received match COC

☒ Yes ☐ No*

Proper containers received for analyses requested on COC

☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested

☐ Yes ☐ No* ☒ N/A

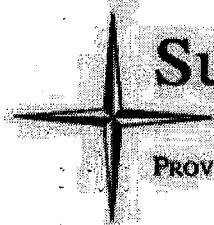
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times

☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: 05 5.13.21

Comments:



SunStar Laboratories, Inc.

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

Project Name: HOLLAND FV

Rebecca

Company: NORTHGATE

Name: DERRICK

DB

Item	Quantity	Unit	
2 oz Jars 24/CS			
4 oz Jars 24/CS			
8 oz Jars 12/CS			
40 ml unpreserved VOAs 100/box			
40 ml HCL-preserved VOAs 72/box			
250 ml Poly 24/CS			
500 ml Poly 16/CS			
1 Liter Poly 12/CS			
500 ml Amber Bottle Wide 12/CS			
1 Liter Amber Bottle 12/CS			
1 Gallon Poly 4/box			
5035 kits:(2)Sodium Bisulfate VOAs 72/box			
(1) Methanol VOA 72/box			
(1)Syringe 50/pack			
Lock-N-Load Handle 1/ea			
Tedlar Bags 10/pack			
Sub Slab Insert w/ washer & N/F			
Soil Gas SS 16" Drop Tubes			
Gas Extraction Fittings			
Soil Gas Filters			
	Volume of Summa	# Sent	Used Unused Unreturned
Batch Certified Summa Canisters	400cc		
	1L		
	3L		
	6L		
Purge cans			
Nitrogen cans	1L		
Ind. Cerified Summa Cannisters	1L	6+1	CHARGE 6 1 0
	3L		
	6L		
63/153 Manifolds, Var. Sampler, etc. Calibrated Correctly - Gauge Reads at 0			DB
Manifolds: Inst. Sampler, Variable Sampler, Shut In Set Ups, 150ml/mn, 63ml/mn	6- 150 MANIFOLDS	CHARGE 5	0
Swagelok Fittings: Nuts/Ferrules, Ts	6 N/F	ALL RETURNED NO CHARGE	
Cooler (Sm, Med, Lrg) Number & Quantity			
Other: Poly Tube, Valves,Silicon Tape, etc.			
Prepared By:	DAVE	Date:	5/6/21
Reviewed By:		Date:	
Comments:			
Cooler Policy: Failure to return cooler(s) within 30 days of receipt or if the returned cooler(s) are in unusable condition, will result in a \$50 per cooler fee for replacement costs.			

Asset Check-In Receipt

SunStar Laboratories Inc.

Check-In Date: 5/13/2021

User Name: Berner, Dave

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
0029	1000cc: 1000cc Summa	0029	Sunstar Labs, Tusin Air Lab	Northgate-Derrick	Derrick W.
0060	1000cc: 1000cc Summa	0060	Sunstar Labs, Tusin Air Lab	Northgate-Derrick	Derrick W.
0070	1000cc: 1000cc Summa	0070	Sunstar Labs, Tusin Air Lab	Northgate-Derrick	Derrick W.
0195	1000cc: 1000cc Summa	0195	Sunstar Labs, Tusin Air Lab	Northgate-Derrick	Derrick W.
0204	1000cc: 1000cc Summa	0204	Sunstar Labs, Tusin Air Lab	Northgate-Derrick	Derrick W.
0400	1000cc: 1000cc Summa	0400	Sunstar Labs, Tusin Air Lab	Northgate-Derrick	Derrick W.
0404	1000cc: 1000cc Summa	0404	Sunstar Labs, Tusin Air Lab	Northgate-Derrick	Derrick W.
2009	Vapor Manifold: Vapor Manifold	2009	Sunstar Labs, SunStar Labs - South	Northgate-Derrick	Derrick W.
2032	Vapor Manifold: Vapor Manifold	2032	Sunstar Labs, Lake Forest Air Lab	Northgate-Derrick	Derrick W.
2053	Vapor Manifold: Vapor Manifold	2053	Sunstar Labs, Lake Forest Air Lab	Northgate-Derrick	Derrick W.
2064	Vapor Manifold: Vapor Manifold	2064	Sunstar Labs, SunStar Labs - South	Northgate-Derrick	Derrick W.
3032	Vapor Manifold: Vapor Manifold	3032	Sunstar Labs, SunStar Labs - South	Northgate-Derrick	Derrick W.
3037	Vapor Manifold: Vapor Manifold	3037	Sunstar Labs, SunStar Labs - South	Northgate-Derrick	Derrick W.

+ 6 N/F

T211625

SunStar Laboratories, Inc.

Client: Northgate Environmental Management -- Laguna
Project: Holland FV

Project Manager: Jeff Lee
Project Number: 2047.28.025

Report To:

Northgate Environmental Management -- Laguna Hills
 Derrick Willis
 24411 Ridge Route Drive, Suite 130
 Laguna Hills, CA 92653
 Phone: (949) 716-0050
 Fax: (949) 230-0643

Invoice To:

Northgate Environmental Management -- Laguna Hills
 Derrick Willis
 24411 Ridge Route Drive, Suite 130
 Laguna Hills, CA 92653
 Phone : (949) 716-0050
 Fax: (949) 230-0643

Date Due: 05/25/21 17:00 (7 day TAT)

Received By: Jeff Lee

Logged In By: Jeff Lee

Date Received: 05/14/21 15:03

Date Logged In: 05/14/21 08:40

Samples Received at:

Custody Seals	No	Received On Ice	No
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Comments
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T211625-01 SV2 [Air] Sampled 05/13/21 06:44 (GMT-08:00) Pacific Time (US &

Methane by GC	05/25/21 15:00	7	06/12/21 06:44
TO-15	05/25/21 15:00	7	06/12/21 06:44
Hydrogen Sulfide	05/25/21 15:00	7	06/12/21 06:44

T211625-02 SV5 [Air] Sampled 05/13/21 07:18 (GMT-08:00) Pacific Time (US &

Hydrogen Sulfide	05/25/21 15:00	7	06/12/21 07:18
Methane by GC	05/25/21 15:00	7	06/12/21 07:18
TO-15	05/25/21 15:00	7	06/12/21 07:18

T211625-03 SV11 [Air] Sampled 05/13/21 07:53 (GMT-08:00) Pacific Time (US &

TO-15	05/25/21 15:00	7	06/12/21 07:53
Hydrogen Sulfide	05/25/21 15:00	7	06/12/21 07:53
Methane by GC	05/25/21 15:00	7	06/12/21 07:53

T211625-04 SV7 [Air] Sampled 05/13/21 08:43 (GMT-08:00) Pacific Time (US &

Methane by GC	05/25/21 15:00	7	06/12/21 08:43
TO-15	05/25/21 15:00	7	06/12/21 08:43
Hydrogen Sulfide	05/25/21 15:00	7	06/12/21 08:43

WORK ORDER

Printed: 5/14/2021 8:53:35AM

T211625

SunStar Laboratories, Inc.

Client: Northgate Environmental Management -- Laguna
Project: Holland FV

Project Manager: Jeff Lee
Project Number: 2047.28.025

Analysis	Due	TAT	Expires	Comments
T211625-05 SV13 [Air] Sampled 05/13/21 09:25 (GMT-08:00) Pacific Time (US &				
Hydrogen Sulfide	05/25/21 15:00	7	06/12/21 09:25	
Methane by GC	05/25/21 15:00	7	06/12/21 09:25	
TO-15	05/25/21 15:00	7	06/12/21 09:25	
T211625-06 SV3 [Air] Sampled 05/13/21 09:56 (GMT-08:00) Pacific Time (US &				
TO-15	05/25/21 15:00	7	06/12/21 09:56	
Hydrogen Sulfide	05/25/21 15:00	7	06/12/21 09:56	
Methane by GC	05/25/21 15:00	7	06/12/21 09:56	

Reviewed By _____

Date _____



INTEGRATED GEOSCIENCES LABORATORIES, LLC

*Environmental * Geotechnical * Core Analysis*

6016 Centralcrest Street • Houston, Texas 77092
Telephone (713) 316-1800 • Fax (877) 255-9953

April 4, 2024

Derrick S. Willis.
Project Managers,
Northgate Environmental Management, Inc.
92 Argonaut, Suite 100,
Aliso Viejo, CA 92656.

Re: IGS File No: **2403-33**
Project Name: Holland Boomers Site
Project Number: 2047.28
Site Location: 16800 Magnolia Street, Fountain Valley, CA 92708

Subject: Final Report: Vapor Transport Package Analysis – (Johnson-Ettinger)

Dear Derrick S. Willis,

Please find enclosed report for Physical Properties Analysis conducted upon soil samples received from your “**Holland Boomers Site**” project. All analyses were performed by applicable ASTM, EPA, or API methodologies. The samples are currently in storage and will be retained for thirty days past the completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal, or return of the samples.

Integrated Geosciences Laboratories appreciate the opportunity to be of service. If you have any questions or require additional information, please contact me or Emeka Anazodo at (713) 316-1800.

Sincerely,

Adebowale Ogunsola
Operations Manager
Integrated Geosciences Laboratories, LLC.

+1 (713) 316-1800

+1 (832) 890-3286

(website: <https://www.igslaboratories.com>)

Integrated Geosciences Laboratories, LLC.

Project Name:

Holland Boomers Site

IGS File No:

2403-33

Project Number:

2047.28

Client:

Northgate Environmental Management, Inc

Site Location:

16800 Magnolia Street, Fountain Valley, CA 92708

Date Received:

3/27/2024

TEST PROGRAM - 20240327

Serial Number	Sample ID	Date; Time Sampled	Depth (feet)	Matix Type	Vapor Transport Package (EPA 9100,API RP40, ASTM D425, ASTM D426, ASTM D422, Walkley Black)			Comments
	Date Received: 20240327							
1	B5-3.5	3/25/24; 10:35	3.5-4.5	Soil	X			1- [2" X 6.25" Acetate tube]
2	B10-3.5	3/25/24; 11:57	3.5-4.5	Soil	X			1- [2" X 6.25" Acetate tube]
3	B13-3.5	3/25/24; 13:10	3.5-4.5	Soil	X			1- [2" X 6.25" Acetate tube]
	TOTAL				3			3

Laboratory Test Program Notes

1. Standard TAT for basic analysis is 10-15 business days.

Vapor Transport Package requires the following tests:	Air Permeability (native and specific)	API RP40
	Total/Air-Filled/Water-Filled Porosity	API RP40
	Dry Bulk density	API RP40
	Effective Porosity	Mod. ASTM D425
	Grain Size Analysis	Mod. ASTM D422
	Atterberg Limits	Mod. ASTM D426
	TOC/foc	Walkey-Black
	Intrinsic Perm /Hydraulic Conductivity	API RP40
	Moisture Content	API RP40

Integrated Geosciences Laboratories, LLC.

PHYSICAL PROPERTIES DATA - VAPOR TRANSPORT PACKAGE

IGS Labs File No:2403-33

Client:Northgate Environmental Management, Inc

Report Date:4/4/2024

Project Name:Holland Boomers Site

Project No:2047.28

Site Location:16800 Magnolia Street, Fountain Valley, CA 92708

METHODS:					API RP40/ ASTM D2216		API RP 40		API RP 40		Mod. ASTM D425		API RP40	
SAMPLE ID.	IGS Labs ID	DEPTH, ft.	SAMPLE ORIENTATION (1)	ANALYSIS DATE	MOISTURE		DENSITY		POROSITY, (2)				TOTAL PORE FLUID SATURATIONS (3), % Pv	
					CONTENT,		DRY BULK, g/cc	GRAIN, g/cc	TOTAL, cm ³ /cm ³	AIR-FILLED, cm ³ /cm ³	WATER-FILLED, cm ³ /cm ³	EFFECTIVE, cm ³ /cm ³		
					% weight	cm ³ /cm ³								
B5-3.5	1	3.5-4.5	V	20240403	14.6	0.232	1.58	2.67	0.407	0.175	0.232	0.216	56.9	
B10-3.5	2	3.5-4.5	V	20240403	18.1	0.307	1.69	2.67	0.366	0.059	0.307	0.196	83.9	
B13-3.5	3	3.5-4.5	V	20240403	16.8	0.275	1.64	2.67	0.385	0.109	0.275	0.271	71.6	

(1) Sample Orientation: H = horizontal; V = vertical; R = remold
(2) Total Porosity = all interconnected pore channels; Air Filled = pore channels not occupied by pore fluids; Effective = drainage porosity.
(3) Fluid density used to calculate pore fluid saturations: Water = 0.9996 g/cc.
Vb = Bulk Volume, cc; Pv = Pore Volume, cc; ND = Not Detected

Integrated Geosciences Laboratories, LLC.

AIR PERMEABILITY DATA - VAPOR TRANSPORT PACKAGE

IGS Labs File No: 2403-33

Client: Northgate Environmental Management, Inc

Report Date: 4/4/2024

Project Name: Holland Boomers Site

Project No: 2047.28

Site Location: 16800 Magnolia Street, Fountain Valley, CA 92708

METHODS:					API RP40	
					25 PSI CONFINING PRESSURE	
SAMPLE ID.	IGS Labs ID	DEPTH, ft.	SAMPLE ORIENTATION (1)	ANALYSIS DATE	EFFECTIVE PERMEABILITY TO AIR (2), millidarcy	SPECIFIC PERMEABILITY TO AIR (3), millidarcy
B5-3.5	1	3.5-4.5	V	20240403	44.0	218
B10-3.5	2	3.5-4.5	V	20240403	0.511	19.3
B13-3.5	3	3.5-4.5	V	20240403	3.15	149

(1) Sample Orientation: H = horizontal; V = vertical; R = remold
(2) Effective (Native) = With as-received pore fluids in place.
(3) Specific = No pore fluids in place.
Air = Nitrogen gas.

Integrated Geosciences Laboratories, LLC.

PHYSICAL PROPERTIES DATA - HYDRAULIC CONDUCTIVITY (Methodology: API RP 40; EPA 9100)

IGS Labs File No: 2403-33

Client: Northgate Environmental Management, Inc

Report Date: 04/03/24

Project Name: Holland Boomers Site

Project No: 2047.28

Site Location: 16800 Magnolia Street, Fountain Valley, CA 92708

					25 PSI CONFINING STRESS		
SAMPLE ID.	IGS Labs ID	DEPTH, ft.	SAMPLE ORIENTATION (1)	ANALYSIS DATE	EFFECTIVE PERMEABILITY TO WATER (2,3), millidarcy	HYDRAULIC CONDUCTIVITY (3), cm/s	INTRINSIC PERMEABILITY TO WATER (3), cm ²
B5-3.5	1	3.5-4.5	V	20240402	1.46	1.42E-06	1.44E-11
B10-3.5	2	3.5-4.5	V	20240402	0.499	4.81E-07	4.93E-12
B13-3.5	3	3.5-4.5	V	20240402	6.83	6.68E-06	6.74E-11

(1) Sample Orientation: H = horizontal; V = vertical; R = remold
(2) Effective (Native) = With as-received pore fluids in place.
(3) Permeability to water and hydraulic conductivity measured at saturated conditions.
Water = filtered Laboratory Fresh (tap) or Site water.

Integrated Geosciences Laboratories, LLC.

SOIL CLASSIFICATION DATA - VAPOR TRANSPORT PACKAGE
ATTERBERG LIMITS DATA - FINE FRACTION < No. 40 SIEVE

IGS Labs File No:2403-33

Client:Northgate Environmental Management, Inc

Report Date:4/3/2024

Project Name:Holland Boomers Site

Project Number:2047.28

Site Location:16800 Magnolia Street, Fountain Valley, CA

METHODS:				ASTM D4318			ASTM D4318	ASTM D2487	USDA
SAMPLE ID.	IGS Labs ID.	DEPTH, ft.	ANALYSIS DATE	ATTERBERG LIMITS (1)			USCS / PLASTICITY CHART SYMBOL (Fines: <#40 Sieve)	USCS CLASSIFICATION, Group Symbol: Name	USDA SOIL TEXTURE SCHEME (2)
				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX			
B5-3.5	1	3.5-4.5	20240401	30.0	16.6	13.4	CL	SC - Clayey Sand	Sandy Loam
B10-3.5	2	3.5-4.5	20240401	28.9	18.5	10.4	CL	SC - Clayey Sand	Loamy Sand
B13-3.5	3	3.5-4.5	20240401	20.0	NON-PLASTIC		CL	SP-SC - Poorly graded Sand with silty clay	Sand

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples.
(2) Sand considered to be >No. 200 sieve for USDA SOIL TEXTURE SCHEME.
USCS: Unified Soil Classification System
USDA: US Department of Agriculture
SCS: Soil Conservation Service

Integrated Geosciences Laboratories, LLC.

PARTICLE SIZE SUMMARY (METHODOLOGY: ASTM D422)

IGS Labs File No:	2403-33	IGS Labs File No:	Holland Boomers Site
Client:	Northgate Environmental Management, Inc	Client:	2047.28
Report Date:	04/03/24	Report Date:	16800 Magnolia Street, Fountain Valley, CA

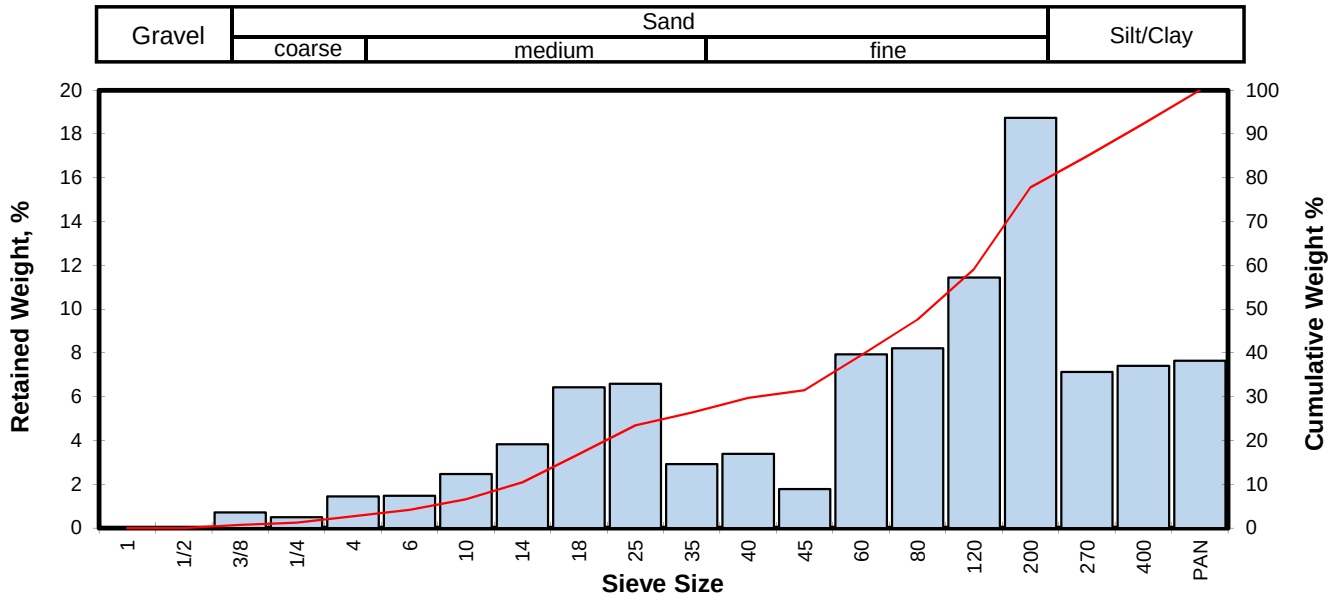
Sample ID	IGS Labs ID	Depth, ft.	Mean Grain Size Description USCS/ASTM (1)	Median Grain Size, mm	Particle Size Distribution, wt. percent						
					Gravel	Sand Size					Silt/Clay
						Coarse	Medium	Fine	Silt	Clay	
B5-3.5	1	3.5-4.5	Fine sand	0.165	2.64	3.94	23.15	48.09	14.54	7.65	22.18
B10-3.5	2	3.5-4.5	Fine sand	0.144	0.78	1.76	21.10	54.53	17.20	4.64	21.84
B13-3.5	3	3.5-4.5	Fine sand	0.181	0.22	0.52	17.90	68.44	9.56	3.36	12.92

(1) Based on Mean from Trask

Integrated Geosciences Laboratories, LLC.

Sieve Analysis Results - ASTM D22

Client: Northgate Environmental Management, Inc
Project: Holland Boomers Site
Project No: 2047.28
IGS Labs ID:- 1
IGS Labs File No: 2403-33
Sample ID: B5-3.5
Depth, ft: 3.5-4.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	1.59	0.72	0.72
0.2500	6.351	-2.67	1/4	1.09	0.49	1.21
0.1873	4.757	-2.25	4	3.19	1.43	2.64
0.1324	3.364	-1.75	6	3.28	1.48	4.12
0.0787	2.000	-1.00	10	5.48	2.46	6.58
0.0557	1.414	-0.50	14	8.50	3.82	10.40
0.0394	1.000	0.00	18	14.30	6.43	16.84
0.0278	0.707	0.50	25	14.65	6.59	23.42
0.0197	0.500	1.00	35	6.50	2.92	26.35
0.0166	0.420	1.25	40	7.52	3.38	29.73
0.0139	0.354	1.50	45	3.94	1.77	31.50
0.0098	0.250	2.00	60	17.64	7.93	39.44
0.0070	0.177	2.50	80	18.24	8.20	47.64
0.0049	0.125	3.00	120	25.43	11.44	59.08
0.0029	0.074	3.75	200	41.66	18.74	77.82
0.0021	0.053	4.25	270	15.84	7.12	84.94
0.0015	0.037	4.75	400	16.48	7.41	92.35
			PAN	17.00	7.65	100.00
TOTALS				222.33	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-1.48	0.1099	2.791
10	-0.55	0.0578	1.467
16	-0.06	0.0412	1.046
25	0.77	0.0231	0.587
40	2.03	0.0096	0.244
50	2.60	0.0065	0.165
60	3.04	0.0048	0.122
75	3.64	0.0032	0.080
84	4.18	0.0022	0.055
90	4.59	0.0016	0.041
95	3.11	0.0046	0.116

Measure	Trask	Inman	Folk-Ward
Median, phi	2.60	2.60	2.60
Median, in.	0.0065	0.0065	0.0065
Median, mm	0.165	0.165	0.165
Mean, phi	1.58	2.06	2.24
Mean, in.	0.0131	0.0094	0.0083
Mean, mm	0.334	0.240	0.212
Sorting	2.702	2.124	1.757
Skewness	1.319	-0.256	-0.518
Kurtosis	0.178	0.080	0.656
Grain Size Description		Fine sand	
(ASTM-USCS Scale)		(based on Mean from Trask)	

Coefficient of Curvature, $C_c = (D_{30})^2 / (D_{60} \times D_{10})$
 $D_{30} = 0.473$
 $C_c = 1.249565259$

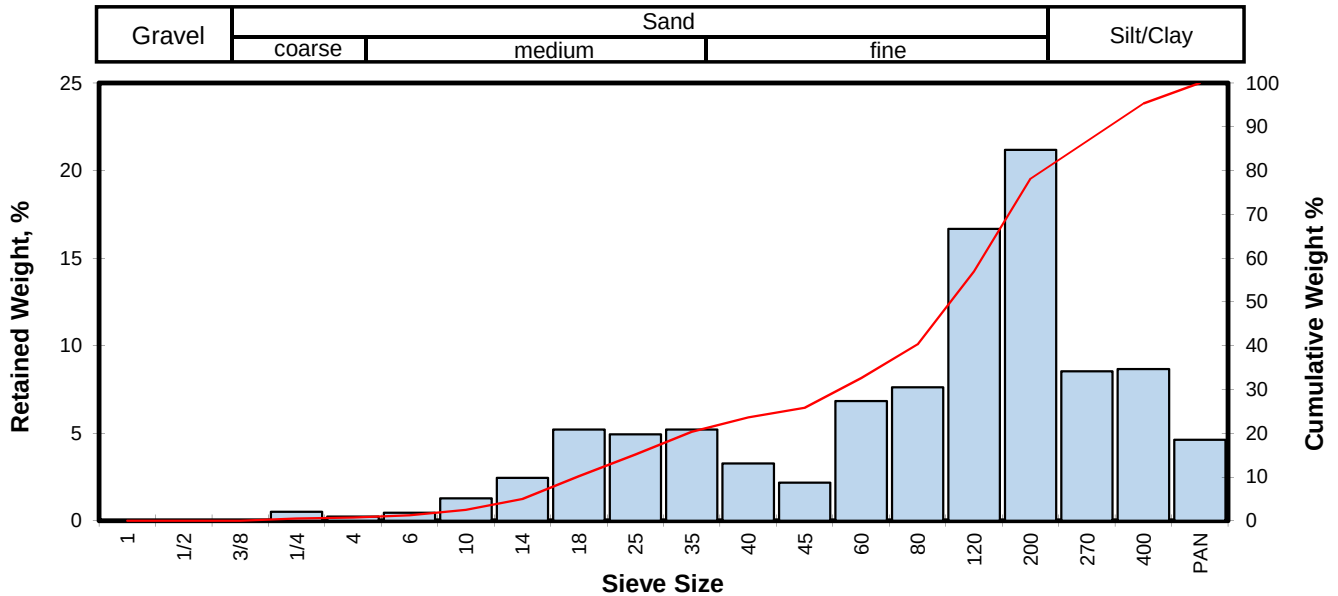
Coefficient of Uniformity, $C_u = D_{60} / D_{10}$
 $D_9 = 1.732$
 $C_u = 0.070360158$
 $D_{10} = 1.467$

Description	Retained on Sieve #	Weight Percent
Gravel	4	2.64
Coarse Sand	10	3.94
Medium Sand	40	23.15
Fine Sand	200	48.09
Silt	<200	14.54
Clay	Pan	7.65
Total		100

Integrated Geosciences Laboratories, LLC.

Sieve Analysis Results - ASTM D22

Client: Northgate Environmental Management, Inc **IGS Labs ID:-** 2 **IGS Labs File No:** 2403-33
Project: Holland Boomers Site **Sample ID:** B10-3.5
Project No: 2047.28 **Depth, ft:** 3.5-4.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	1.37	0.53	0.53
0.1873	4.757	-2.25	4	0.66	0.25	0.78
0.1324	3.364	-1.75	6	1.22	0.47	1.25
0.0787	2.000	-1.00	10	3.37	1.29	2.54
0.0557	1.414	-0.50	14	6.42	2.46	5.00
0.0394	1.000	0.00	18	13.59	5.21	10.21
0.0278	0.707	0.50	25	12.89	4.94	15.15
0.0197	0.500	1.00	35	13.58	5.21	20.36
0.0166	0.420	1.25	40	8.54	3.27	23.63
0.0139	0.354	1.50	45	5.69	2.18	25.82
0.0098	0.250	2.00	60	17.86	6.85	32.66
0.0070	0.177	2.50	80	19.90	7.63	40.29
0.0049	0.125	3.00	120	43.50	16.68	56.97
0.0029	0.074	3.75	200	55.27	21.19	78.16
0.0021	0.053	4.25	270	22.26	8.53	86.70
0.0015	0.037	4.75	400	22.59	8.66	95.36
			PAN	12.10	4.64	100.00
TOTALS				260.81	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.50	0.0557	1.414
10	-0.02	0.0399	1.014
16	0.58	0.0263	0.668
25	1.41	0.0149	0.377
40	2.48	0.0071	0.179
50	2.79	0.0057	0.144
60	3.11	0.0046	0.116
75	3.64	0.0032	0.080
84	4.09	0.0023	0.059
90	4.44	0.0018	0.046
95	4.73	0.0015	0.038

Measure	Trask	Inman	Folk-Ward
Median, phi	2.79	2.79	2.79
Median, in.	0.0057	0.0057	0.0057
Median, mm	0.144	0.144	0.144
Mean, phi	2.13	2.34	2.49
Mean, in.	0.0090	0.0078	0.0070
Mean, mm	0.229	0.198	0.178
Sorting	2.167	1.755	1.670
Skewness	1.205	-0.259	-0.259
Kurtosis	0.153	0.490	0.960

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Mean from Trask)
--	--------------------------------------

Coefficient of Curvature, $C_c = (D_{30})^2 / (D_{60} \times D_{10})$
 $D_{30} = 0.311$
 $C_c = 0.823223036$

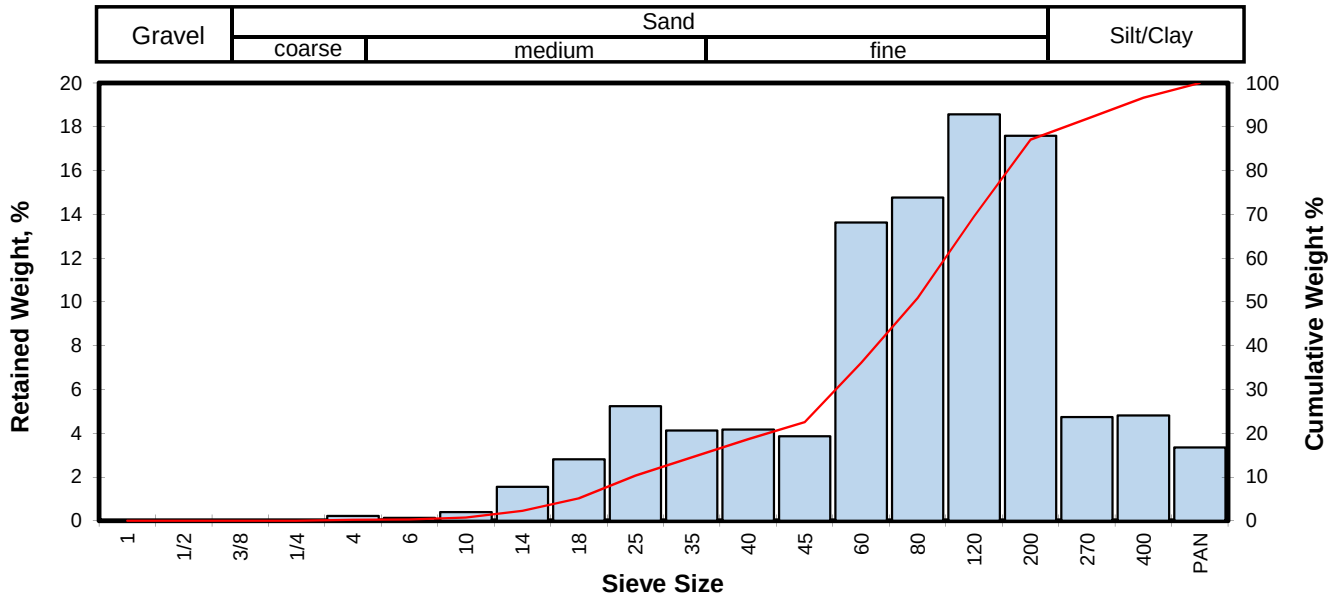
Coefficient of Uniformity, $C_u = D_{60} / D_{10}$
 $D_9 = 1.094$
 $C_u = 0.106069692$
 $D_{10} = 1.014$

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.78
Coarse Sand	10	1.76
Medium Sand	40	21.10
Fine Sand	200	54.53
Silt	<200	17.20
Clay	Pan	4.64
Total		100

Integrated Geosciences Laboratories, LLC.

Sieve Analysis Results - ASTM D22

Client: Northgate Environmental Management, Inc **IGS Labs ID:-** 2 **IGS Labs File No:** 2403-33
Project: Holland Boomers Site **Sample ID:** B13-3.5
Project No: 2047.28 **Depth, ft:** 3.5-4.5



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.58	0.22	0.22
0.1324	3.364	-1.75	6	0.34	0.13	0.35
0.0787	2.000	-1.00	10	1.03	0.39	0.74
0.0557	1.414	-0.50	14	4.07	1.55	2.30
0.0394	1.000	0.00	18	7.38	2.82	5.11
0.0278	0.707	0.50	25	13.73	5.24	10.35
0.0197	0.500	1.00	35	10.81	4.12	14.47
0.0166	0.420	1.25	40	10.93	4.17	18.64
0.0139	0.354	1.50	45	10.14	3.87	22.51
0.0098	0.250	2.00	60	35.72	13.63	36.14
0.0070	0.177	2.50	80	38.73	14.78	50.92
0.0049	0.125	3.00	120	48.69	18.58	69.49
0.0029	0.074	3.75	200	46.10	17.59	87.08
0.0021	0.053	4.25	270	12.42	4.74	91.82
0.0015	0.037	4.75	400	12.64	4.82	96.64
			PAN	8.80	3.36	100.00
TOTALS				262.11	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.02	0.0399	1.014
10	0.47	0.0285	0.724
16	1.09	0.0185	0.469
25	1.59	0.0131	0.332
40	2.13	0.0090	0.228
50	2.47	0.0071	0.181
60	2.74	0.0059	0.149
75	3.23	0.0042	0.106
84	3.62	0.0032	0.081
90	4.06	0.0024	0.060
95	4.58	0.0016	0.042

Measure	Trask	Inman	Folk-Ward
Median, phi	2.47	2.47	2.47
Median, in.	0.0071	0.0071	0.0071
Median, mm	0.181	0.181	0.181
Mean, phi	2.19	2.36	2.39
Mean, in.	0.0086	0.0077	0.0075
Mean, mm	0.219	0.195	0.190
Sorting	1.768	1.264	1.329
Skewness	1.040	-0.090	-0.086
Kurtosis	0.170	0.820	1.147
Grain Size Description (ASTM-USCS Scale)		Fine sand (based on Mean from Trask)	

Coefficient of Curvature, $C_c = (D_{30})^2 / (D_{60} \times D_{10})$
 $D_{30} = 0.297$
 $C_c = 0.81909641$

Coefficient of Uniformity, $C_u = D_{60} / D_{10}$
 $D_9 = 0.782$
 $C_u = 0.190883227$
 $D_{10} = 0.724$

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.22
Coarse Sand	10	0.52
Medium Sand	40	17.90
Fine Sand	200	68.44
Silt	<200	9.56
Clay	Pan	3.36
Total		100

Integrated Geosciences Laboratories, LLC							
ORGANIC CARBON DATA - TOC (foc)							
(Methodology: Walkley-Black)							
IGS Labs File No:		2403-33		Project Name:		Holland Boomers Site	
Client:		Northgate Environmental Management, Inc		Project No:		2047.28	
Report Date:		4/3/2024		Site Location:		16800 Magnolia Street, Fountain Valley, CA 92708	
SAMPLE ID	IGS Labs ID	DEPTH, (feet)	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
B5-3.5	1	3.5-4.5	20240202	1030	SOIL	900	9.00E-04
B10-3.5	2	3.5-4.5	20240202	1030	SOIL	3140	3.14E-03
B13-3.5	3	3.5-4.5	20240202	1030	SOIL	2340	2.34E-03
NOTES:							
Blank		N/A	20240202	1000	BLANK	ND	ND
SRM D113-542		N/A	20240328	0930	SRM	5650	5.65E-03
Reporting Limit:						100	1.00E-04
QC DATA							
SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance Acceptance Limits, mg/kg			
				Lower	Upper		
SRM D113-542	112	75-125	5000	1690	7680		
ND = Not Detected							



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

03 April 2024

Derrick Willis
Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo, CA 92656
RE: Holland Boomers

Enclosed are the results of analyses for samples received by the laboratory on 03/26/24 13:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jeff Lee', is written over a light gray rectangular background.

Jeff Lee
Project Manager

Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B9	T241339-01	Air	03/25/24 11:30	03/26/24 13:50
B8	T241339-02	Air	03/25/24 11:52	03/26/24 13:50
B7	T241339-03	Air	03/25/24 12:15	03/26/24 13:50
B5	T241339-04	Air	03/25/24 12:39	03/26/24 13:50
B2	T241339-05	Air	03/25/24 13:12	03/26/24 13:50
B1	T241339-06	Air	03/25/24 13:37	03/26/24 13:50
B4	T241339-07	Air	03/25/24 13:56	03/26/24 13:50
B10	T241339-08	Air	03/26/24 09:27	03/26/24 13:50
B11	T241339-09	Air	03/26/24 09:47	03/26/24 13:50
B12	T241339-10	Air	03/26/24 10:09	03/26/24 13:50
B13	T241339-11	Air	03/26/24 10:34	03/26/24 13:50
B14	T241339-12	Air	03/26/24 10:59	03/26/24 13:50
B16	T241339-13	Air	03/26/24 11:22	03/26/24 13:50
B3	T241339-14	Air	03/26/24 11:49	03/26/24 13:50
B6	T241339-15	Air	03/26/24 12:13	03/26/24 13:50

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

DETECTIONS SUMMARY

Sample ID: B9

Laboratory ID: T241339-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	36	12	ug/m ³ Air	TO-15	
1,3-Butadiene	9.1	4.5	ug/m ³ Air	TO-15	
Chloroform	130	5.0	ug/m ³ Air	TO-15	
Heptane	4.1	4.2	ug/m ³ Air	TO-15	J
Methylene chloride	13	27	ug/m ³ Air	TO-15	C-06, J
Styrene	1.4	4.3	ug/m ³ Air	TO-15	J
Tetrachloroethene	5.1	6.9	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	1.2	5.7	ug/m ³ Air	TO-15	J
1,3,5-Trimethylbenzene	4.3	5.0	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	13	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	15	15	ug/m ³ Air	TO-15	
Benzene	6.2	3.3	ug/m ³ Air	TO-15	
Toluene	19	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	200	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	800	8.8	ug/m ³ Air	TO-15	
o-Xylene	270	4.4	ug/m ³ Air	TO-15	

Sample ID: B8

Laboratory ID: T241339-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	52	12	ug/m ³ Air	TO-15	
1,3-Butadiene	6.5	4.5	ug/m ³ Air	TO-15	
Carbon Disulfide	5.4	3.2	ug/m ³ Air	TO-15	
Chloroform	1000	5.0	ug/m ³ Air	TO-15	
4-Ethyltoluene	1.3	5.0	ug/m ³ Air	TO-15	J
Methylene chloride	14	27	ug/m ³ Air	TO-15	C-06, J
Styrene	1.3	4.3	ug/m ³ Air	TO-15	J
Tetrachloroethene	33	6.9	ug/m ³ Air	TO-15	
Trichloroethene	14	5.5	ug/m ³ Air	TO-15	
Trichlorofluoromethane	59	5.7	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	0.67	5.0	ug/m ³ Air	TO-15	J

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

Sample ID: B8

Laboratory ID: T241339-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
1,2,4-Trimethylbenzene	3.0	5.0	ug/m ³ Air	TO-15	J
2-Butanone (MEK)	10	15	ug/m ³ Air	TO-15	J
Benzene	4.2	3.3	ug/m ³ Air	TO-15	
Toluene	6.6	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	4.1	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	15	8.8	ug/m ³ Air	TO-15	
o-Xylene	4.9	4.4	ug/m ³ Air	TO-15	

Sample ID: B7

Laboratory ID: T241339-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	56	12	ug/m ³ Air	TO-15	
1,3-Butadiene	1.4	4.5	ug/m ³ Air	TO-15	J
Bromodichloromethane	5.4	6.8	ug/m ³ Air	TO-15	J
Chloroform	440	5.0	ug/m ³ Air	TO-15	
Heptane	62	4.2	ug/m ³ Air	TO-15	
Hexane	18	3.6	ug/m ³ Air	TO-15	
Dibromochloromethane	3.0	8.7	ug/m ³ Air	TO-15	J
Dichlorodifluoromethane	4.0	5.0	ug/m ³ Air	TO-15	J
Methylene chloride	16	27	ug/m ³ Air	TO-15	C-06, J
Styrene	6.8	4.3	ug/m ³ Air	TO-15	
Tetrachloroethene	8.6	6.9	ug/m ³ Air	TO-15	
Trichloroethene	1.1	5.5	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	38	5.7	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	26	5.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	79	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	13	15	ug/m ³ Air	TO-15	J
Methyl isobutyl ketone	4.0	42	ug/m ³ Air	TO-15	J
Benzene	29	3.3	ug/m ³ Air	TO-15	
Toluene	360	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	43	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	190	8.8	ug/m ³ Air	TO-15	
o-Xylene	52	4.4	ug/m ³ Air	TO-15	

Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

Sample ID: B5

Laboratory ID: T241339-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	100	12	ug/m ³ Air	TO-15	
Carbon Disulfide	5.6	3.2	ug/m ³ Air	TO-15	
Chloroform	240	5.0	ug/m ³ Air	TO-15	
Heptane	2.0	4.2	ug/m ³ Air	TO-15	J
Dichlorodifluoromethane	3.8	5.0	ug/m ³ Air	TO-15	J
Methylene chloride	12	27	ug/m ³ Air	TO-15	C-06, J
Styrene	0.83	4.3	ug/m ³ Air	TO-15	J
Tetrachloroethene	6.7	6.9	ug/m ³ Air	TO-15	J
Trichloroethene	2.5	5.5	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	27	5.7	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	1.4	5.0	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	4.8	5.0	ug/m ³ Air	TO-15	J
2-Butanone (MEK)	24	15	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	3.7	42	ug/m ³ Air	TO-15	J
Benzene	4.4	3.3	ug/m ³ Air	TO-15	
Toluene	14	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	24	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	90	8.8	ug/m ³ Air	TO-15	
o-Xylene	26	4.4	ug/m ³ Air	TO-15	

Sample ID: B2

Laboratory ID: T241339-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	64	12	ug/m ³ Air	TO-15	
Chloroform	5.9	5.0	ug/m ³ Air	TO-15	
Methylene chloride	18	27	ug/m ³ Air	TO-15	C-06, J
Tetrachloroethene	15	6.9	ug/m ³ Air	TO-15	
Trichloroethene	1.6	5.5	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	4.1	5.7	ug/m ³ Air	TO-15	J
1,3,5-Trimethylbenzene	0.50	5.0	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	1.8	5.0	ug/m ³ Air	TO-15	J
2-Butanone (MEK)	15	15	ug/m ³ Air	TO-15	
Benzene	3.5	3.3	ug/m ³ Air	TO-15	
Toluene	4.4	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	3.2	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	8.1	8.8	ug/m ³ Air	TO-15	J

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

Sample ID: B2

Laboratory ID: T241339-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
o-Xylene	2.5	4.4	ug/m ³ Air	TO-15	J

Sample ID: B1

Laboratory ID: T241339-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	77	12	ug/m ³ Air	TO-15	
1,3-Butadiene	32	4.5	ug/m ³ Air	TO-15	
Chloroform	58	5.0	ug/m ³ Air	TO-15	
Heptane	6.6	4.2	ug/m ³ Air	TO-15	
Hexane	11	3.6	ug/m ³ Air	TO-15	
Dichlorodifluoromethane	4.9	5.0	ug/m ³ Air	TO-15	J
Methylene chloride	13	27	ug/m ³ Air	TO-15	C-06, J
Styrene	2.1	4.3	ug/m ³ Air	TO-15	J
Tetrachloroethene	6.6	6.9	ug/m ³ Air	TO-15	J
1,1,1-Trichloroethane	1.9	5.6	ug/m ³ Air	TO-15	J
Trichloroethene	2.7	5.5	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	22	5.7	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	3.5	5.0	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	10	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	20	15	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	2.9	42	ug/m ³ Air	TO-15	J
Benzene	12	3.3	ug/m ³ Air	TO-15	
Toluene	30	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	5.6	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	21	8.8	ug/m ³ Air	TO-15	
o-Xylene	6.6	4.4	ug/m ³ Air	TO-15	

Sample ID: B4

Laboratory ID: T241339-07

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	78	12	ug/m ³ Air	TO-15	
1,3-Butadiene	29	4.5	ug/m ³ Air	TO-15	
Chloroform	110	5.0	ug/m ³ Air	TO-15	
Dichlorodifluoromethane	12	5.0	ug/m ³ Air	TO-15	
4-Ethyltoluene	6.6	5.0	ug/m ³ Air	TO-15	

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

Sample ID: B4

Laboratory ID: T241339-07

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Methylene chloride	12	27	ug/m ³ Air	TO-15	C-06, J
Styrene	4.3	4.3	ug/m ³ Air	TO-15	
Tetrachloroethene	6.7	6.9	ug/m ³ Air	TO-15	J
1,1,1-Trichloroethane	19	5.6	ug/m ³ Air	TO-15	
Trichloroethene	6.3	5.5	ug/m ³ Air	TO-15	
Trichlorofluoromethane	80	5.7	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	7.3	5.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	25	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	21	15	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	3.4	42	ug/m ³ Air	TO-15	J
Benzene	16	3.3	ug/m ³ Air	TO-15	
Toluene	13	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	34	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	140	8.8	ug/m ³ Air	TO-15	
o-Xylene	49	4.4	ug/m ³ Air	TO-15	

Sample ID: B10

Laboratory ID: T241339-08

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	67	12	ug/m ³ Air	TO-15	
Chloroform	3.4	5.0	ug/m ³ Air	TO-15	J
Heptane	7.1	4.2	ug/m ³ Air	TO-15	
Hexane	9.7	3.6	ug/m ³ Air	TO-15	
Methylene chloride	15	27	ug/m ³ Air	TO-15	C-06, J
Styrene	1.9	4.3	ug/m ³ Air	TO-15	J
Tetrachloroethene	34	6.9	ug/m ³ Air	TO-15	
Trichloroethene	5.2	5.5	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	23	5.7	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	8.6	5.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	28	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	13	15	ug/m ³ Air	TO-15	J
Benzene	3.7	3.3	ug/m ³ Air	TO-15	
Toluene	44	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	37	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	150	8.8	ug/m ³ Air	TO-15	
o-Xylene	43	4.4	ug/m ³ Air	TO-15	

Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

Sample ID: B11

Laboratory ID: T241339-09

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	67	12	ug/m ³ Air	TO-15	
Chloroform	2.8	5.0	ug/m ³ Air	TO-15	J
Heptane	7.3	4.2	ug/m ³ Air	TO-15	
Hexane	11	3.6	ug/m ³ Air	TO-15	
Methylene chloride	15	27	ug/m ³ Air	TO-15	C-06, J
Styrene	2.0	4.3	ug/m ³ Air	TO-15	J
Tetrachloroethene	24	6.9	ug/m ³ Air	TO-15	
Trichloroethene	4.3	5.5	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	26	5.7	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	8.3	5.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	26	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	13	15	ug/m ³ Air	TO-15	J
Benzene	3.7	3.3	ug/m ³ Air	TO-15	
Toluene	45	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	34	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	140	8.8	ug/m ³ Air	TO-15	
o-Xylene	41	4.4	ug/m ³ Air	TO-15	

Sample ID: B12

Laboratory ID: T241339-10

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	18	12	ug/m ³ Air	TO-15	
Carbon Disulfide	4.5	3.2	ug/m ³ Air	TO-15	
Chloroform	1.9	5.0	ug/m ³ Air	TO-15	J
Heptane	5.0	4.2	ug/m ³ Air	TO-15	
1,2-Dichlorobenzene	2.8	31	ug/m ³ Air	TO-15	J
1,3-Dichlorobenzene	2.2	31	ug/m ³ Air	TO-15	J
1,4-Dichlorobenzene	2.5	31	ug/m ³ Air	TO-15	J
Methylene chloride	14	27	ug/m ³ Air	TO-15	C-06, J
Styrene	2.1	4.3	ug/m ³ Air	TO-15	J
Tetrachloroethene	3.3	6.9	ug/m ³ Air	TO-15	J
Trichloroethene	0.45	5.5	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	16	5.7	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	3.4	5.0	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	8.2	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	9.8	15	ug/m ³ Air	TO-15	J

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

Sample ID: B12

Laboratory ID: T241339-10

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Benzene	6.3	3.3	ug/m ³ Air	TO-15	
Toluene	55	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	5.4	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	20	8.8	ug/m ³ Air	TO-15	
o-Xylene	6.0	4.4	ug/m ³ Air	TO-15	

Sample ID: B13

Laboratory ID: T241339-11

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	35	12	ug/m ³ Air	TO-15	
Chloroform	1.1	5.0	ug/m ³ Air	TO-15	J
Heptane	10	4.2	ug/m ³ Air	TO-15	
Hexane	6.8	3.6	ug/m ³ Air	TO-15	
Methylene chloride	12	27	ug/m ³ Air	TO-15	C-06, J
Styrene	1.5	4.3	ug/m ³ Air	TO-15	J
Tetrachloroethene	7.1	6.9	ug/m ³ Air	TO-15	
Trichloroethene	1.5	5.5	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	0.92	5.7	ug/m ³ Air	TO-15	J
1,3,5-Trimethylbenzene	5.8	5.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	19	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	13	15	ug/m ³ Air	TO-15	J
Benzene	13	3.3	ug/m ³ Air	TO-15	
Toluene	130	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	150	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	570	8.8	ug/m ³ Air	TO-15	
o-Xylene	200	4.4	ug/m ³ Air	TO-15	

Sample ID: B14

Laboratory ID: T241339-12

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	16	12	ug/m ³ Air	TO-15	
1,3-Butadiene	0.44	4.5	ug/m ³ Air	TO-15	J
Chloroform	0.57	5.0	ug/m ³ Air	TO-15	J
Heptane	14	4.2	ug/m ³ Air	TO-15	
Methylene chloride	12	27	ug/m ³ Air	TO-15	C-06, J

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Project Number: 2047.28
Project Manager: Derrick Willis

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Sample ID: B14

Laboratory ID: T241339-12

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Styrene	0.99	4.3	ug/m ³ Air	TO-15	J
Tetrachloroethene	5.6	6.9	ug/m ³ Air	TO-15	J
Trichloroethene	0.62	5.5	ug/m ³ Air	TO-15	J
1,3,5-Trimethylbenzene	2.1	5.0	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	7.2	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	7.8	15	ug/m ³ Air	TO-15	J
Benzene	6.4	3.3	ug/m ³ Air	TO-15	
Toluene	77	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	21	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	81	8.8	ug/m ³ Air	TO-15	
o-Xylene	22	4.4	ug/m ³ Air	TO-15	

Sample ID: B16

Laboratory ID: T241339-13

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	13	12	ug/m ³ Air	TO-15	
Chloroform	1.7	5.0	ug/m ³ Air	TO-15	J
Heptane	7.8	4.2	ug/m ³ Air	TO-15	
Hexane	7.3	3.6	ug/m ³ Air	TO-15	
Methylene chloride	13	27	ug/m ³ Air	TO-15	C-06, J
Styrene	0.90	4.3	ug/m ³ Air	TO-15	J
Tetrachloroethene	8.3	6.9	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	2.3	5.0	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	7.0	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	6.5	15	ug/m ³ Air	TO-15	J
Benzene	6.0	3.3	ug/m ³ Air	TO-15	
Toluene	57	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	5.9	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	23	8.8	ug/m ³ Air	TO-15	
o-Xylene	6.8	4.4	ug/m ³ Air	TO-15	

Sample ID: B3

Laboratory ID: T241339-14

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	7.0	12	ug/m ³ Air	TO-15	J

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Project Manager: Derrick Willis

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Sample ID: B3

Laboratory ID: T241339-14

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Chloroform	88	5.0	ug/m ³ Air	TO-15	
Heptane	11	4.2	ug/m ³ Air	TO-15	
Hexane	6.7	3.6	ug/m ³ Air	TO-15	
4-Ethyltoluene	3.4	5.0	ug/m ³ Air	TO-15	J
Methylene chloride	21	27	ug/m ³ Air	TO-15	C-06, J
Styrene	1.4	4.3	ug/m ³ Air	TO-15	J
Tetrachloroethene	5.0	6.9	ug/m ³ Air	TO-15	J
Trichloroethene	0.36	5.5	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	1.6	5.7	ug/m ³ Air	TO-15	J
1,3,5-Trimethylbenzene	3.8	5.0	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	12	5.0	ug/m ³ Air	TO-15	
Benzene	9.1	3.3	ug/m ³ Air	TO-15	
Toluene	44	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	7.8	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	31	8.8	ug/m ³ Air	TO-15	
o-Xylene	8.5	4.4	ug/m ³ Air	TO-15	

Sample ID: B6

Laboratory ID: T241339-15

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	11	12	ug/m ³ Air	TO-15	J
Chloroform	140	5.0	ug/m ³ Air	TO-15	
Heptane	44	4.2	ug/m ³ Air	TO-15	
1,4-Dichlorobenzene	1.0	31	ug/m ³ Air	TO-15	J
Methylene chloride	15	27	ug/m ³ Air	TO-15	C-06, J
Styrene	10	4.3	ug/m ³ Air	TO-15	
Tetrachloroethene	10	6.9	ug/m ³ Air	TO-15	
Trichloroethene	0.27	5.5	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	1.3	5.7	ug/m ³ Air	TO-15	J
1,3,5-Trimethylbenzene	65	5.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	180	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	6.8	15	ug/m ³ Air	TO-15	J
Benzene	24	3.3	ug/m ³ Air	TO-15	
Toluene	630	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	87	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	380	8.8	ug/m ³ Air	TO-15	

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

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Sample ID: B6

Laboratory ID: T241339-15

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
o-Xylene	96	4.4	ug/m³ Air	TO-15	

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B9

T241339-01(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	36	1.3	12	ug/m ³ Air	1.62	24C0479	03/28/24	03/29/24	TO-15	
1,3-Butadiene	9.1	0.17	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.089	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.33	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.30	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.11	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.18	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.12	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.20	2.7	"	"	"	"	"	"	
Chloroform	130	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.074	11	"	"	"	"	"	"	
Cyclohexane	ND	0.65	3.5	"	"	"	"	"	"	
Heptane	4.1	0.32	4.2	"	"	"	"	"	"	J
Hexane	ND	0.38	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.25	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.31	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.23	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.37	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.21	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.12	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.18	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.11	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.30	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.29	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.28	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.19	5.0	"	"	"	"	"	"	
Methylene chloride	13	2.6	27	"	"	"	"	"	"	C-06, J

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

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04/03/24 18:38

B9

T241339-01(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Styrene	1.4	0.16	4.3	ug/m ³ Air	1.62	24C0479	03/28/24	03/29/24	TO-15	J
1,1,2,2-Tetrachloroethane	ND	0.17	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.17	3.0	"	"	"	"	"	"	
Tetrachloroethene	5.1	0.59	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.30	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.14	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.16	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	1.2	0.16	5.7	"	"	"	"	"	"	J
1,3,5-Trimethylbenzene	4.3	0.23	5.0	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	13	0.22	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.91	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.093	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.44	18	"	"	"	"	"	"	
2-Butanone (MEK)	15	0.27	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.15	42	"	"	"	"	"	"	
Benzene	6.2	0.080	3.3	"	"	"	"	"	"	
Toluene	19	0.33	3.8	"	"	"	"	"	"	
Ethylbenzene	200	0.11	4.4	"	"	"	"	"	"	
m,p-Xylene	800	0.14	8.8	"	"	"	"	"	"	
o-Xylene	270	0.11	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene

94.2 %

59.2-130

"

"

"

"



Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

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B8

T241339-02(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	52	1.3	12	ug/m ³ Air	1.68	24C0479	03/28/24	03/29/24	TO-15	
1,3-Butadiene	6.5	0.17	4.5	"	"	"	"	"	"	
Carbon Disulfide	5.4	0.089	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.33	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.30	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.11	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.18	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.12	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.20	2.7	"	"	"	"	"	"	
Chloroform	1000	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.074	11	"	"	"	"	"	"	
Cyclohexane	ND	0.65	3.5	"	"	"	"	"	"	
Heptane	ND	0.32	4.2	"	"	"	"	"	"	
Hexane	ND	0.38	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.25	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.31	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.23	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.37	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.21	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.12	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.18	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.11	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.30	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.29	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.28	4.6	"	"	"	"	"	"	
4-Ethyltoluene	1.3	0.19	5.0	"	"	"	"	"	"	J
Methylene chloride	14	2.6	27	"	"	"	"	"	"	C-06, J
Styrene	1.3	0.16	4.3	"	"	"	"	"	"	J

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92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
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Project Manager: Derrick Willis

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B8

T241339-02(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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TO-15

1,1,2,2-Tetrachloroethane	ND	0.17	7.0	ug/m ³ Air	1.68	24C0479	03/28/24	03/29/24	TO-15	
Tetrahydrofuran	ND	0.17	3.0	"	"	"	"	"	"	
Tetrachloroethene	33	0.59	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.30	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.14	5.6	"	"	"	"	"	"	
Trichloroethene	14	0.16	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	59	0.16	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.67	0.23	5.0	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	3.0	0.22	5.0	"	"	"	"	"	"	J
Vinyl acetate	ND	0.91	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.093	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.44	18	"	"	"	"	"	"	
2-Butanone (MEK)	10	0.27	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.15	42	"	"	"	"	"	"	
Benzene	4.2	0.080	3.3	"	"	"	"	"	"	
Toluene	6.6	0.33	3.8	"	"	"	"	"	"	
Ethylbenzene	4.1	0.11	4.4	"	"	"	"	"	"	J
m,p-Xylene	15	0.14	8.8	"	"	"	"	"	"	
o-Xylene	4.9	0.11	4.4	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>			93.2 %	59.2-130	"	"	"	"	"	

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Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

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B7

T241339-03(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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TO-15

Acetone	56	1.3	12	ug/m ³ Air	1.64	24C0479	03/28/24	03/30/24	TO-15	
1,3-Butadiene	1.4	0.17	4.5	"	"	"	"	"	"	J
Carbon Disulfide	ND	0.089	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.33	13	"	"	"	"	"	"	
Bromodichloromethane	5.4	0.30	6.8	"	"	"	"	"	"	J
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.11	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.18	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.12	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.20	2.7	"	"	"	"	"	"	
Chloroform	440	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.074	11	"	"	"	"	"	"	
Cyclohexane	ND	0.65	3.5	"	"	"	"	"	"	
Heptane	62	0.32	4.2	"	"	"	"	"	"	
Hexane	18	0.38	3.6	"	"	"	"	"	"	
Dibromochloromethane	3.0	0.25	8.7	"	"	"	"	"	"	J
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.31	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.23	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.37	31	"	"	"	"	"	"	
Dichlorodifluoromethane	4.0	0.18	5.0	"	"	"	"	"	"	J
1,1-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.21	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.12	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.18	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.11	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.30	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.29	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.28	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.19	5.0	"	"	"	"	"	"	
Methylene chloride	16	2.6	27	"	"	"	"	"	"	C-06, J
Styrene	6.8	0.16	4.3	"	"	"	"	"	"	

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B7

T241339-03(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1,2,2-Tetrachloroethane	ND	0.17	7.0	ug/m ³ Air	1.64	24C0479	03/28/24	03/30/24	TO-15	
Tetrahydrofuran	ND	0.17	3.0	"	"	"	"	"	"	
Tetrachloroethene	8.6	0.59	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.30	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.14	5.6	"	"	"	"	"	"	
Trichloroethene	1.1	0.16	5.5	"	"	"	"	"	"	J
Trichlorofluoromethane	38	0.16	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	26	0.23	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	79	0.22	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.91	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.093	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.44	18	"	"	"	"	"	"	
2-Butanone (MEK)	13	0.27	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	4.0	0.15	42	"	"	"	"	"	"	J
Benzene	29	0.080	3.3	"	"	"	"	"	"	
Toluene	360	0.33	3.8	"	"	"	"	"	"	
Ethylbenzene	43	0.11	4.4	"	"	"	"	"	"	
m,p-Xylene	190	0.14	8.8	"	"	"	"	"	"	
o-Xylene	52	0.11	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 95.7 % 59.2-130 " " " "

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B5

T241339-04(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	100	1.3	12	ug/m ³ Air	1.6	24C0479	03/28/24	03/30/24	TO-15	
1,3-Butadiene	ND	0.17	4.5	"	"	"	"	"	"	
Carbon Disulfide	5.6	0.089	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.33	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.30	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.11	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.18	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.12	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.20	2.7	"	"	"	"	"	"	
Chloroform	240	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.074	11	"	"	"	"	"	"	
Cyclohexane	ND	0.65	3.5	"	"	"	"	"	"	
Heptane	2.0	0.32	4.2	"	"	"	"	"	"	J
Hexane	ND	0.38	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.25	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.31	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.23	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.37	31	"	"	"	"	"	"	
Dichlorodifluoromethane	3.8	0.18	5.0	"	"	"	"	"	"	J
1,1-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.21	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.12	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.18	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.11	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.30	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.29	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.28	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.19	5.0	"	"	"	"	"	"	
Methylene chloride	12	2.6	27	"	"	"	"	"	"	C-06, J
Styrene	0.83	0.16	4.3	"	"	"	"	"	"	J

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B5

T241339-04(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1,2,2-Tetrachloroethane	ND	0.17	7.0	ug/m ³ Air	1.6	24C0479	03/28/24	03/30/24	TO-15	
Tetrahydrofuran	ND	0.17	3.0	"	"	"	"	"	"	
Tetrachloroethene	6.7	0.59	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.30	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.14	5.6	"	"	"	"	"	"	
Trichloroethene	2.5	0.16	5.5	"	"	"	"	"	"	J
Trichlorofluoromethane	27	0.16	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	1.4	0.23	5.0	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	4.8	0.22	5.0	"	"	"	"	"	"	J
Vinyl acetate	ND	0.91	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.093	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.44	18	"	"	"	"	"	"	
2-Butanone (MEK)	24	0.27	15	"	"	"	"	"	"	
Methyl isobutyl ketone	3.7	0.15	42	"	"	"	"	"	"	J
Benzene	4.4	0.080	3.3	"	"	"	"	"	"	
Toluene	14	0.33	3.8	"	"	"	"	"	"	
Ethylbenzene	24	0.11	4.4	"	"	"	"	"	"	
m,p-Xylene	90	0.14	8.8	"	"	"	"	"	"	
o-Xylene	26	0.11	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 94.9 % 59.2-130 " " " "

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B2

T241339-05(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	64	1.3	12	ug/m ³ Air	1.67	24C0479	03/28/24	03/30/24	TO-15	
1,3-Butadiene	ND	0.17	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.089	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.33	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.30	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.11	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.18	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.12	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.20	2.7	"	"	"	"	"	"	
Chloroform	5.9	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.074	11	"	"	"	"	"	"	
Cyclohexane	ND	0.65	3.5	"	"	"	"	"	"	
Heptane	ND	0.32	4.2	"	"	"	"	"	"	
Hexane	ND	0.38	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.25	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.31	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.23	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.37	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.21	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.12	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.18	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.11	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.30	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.29	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.28	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.19	5.0	"	"	"	"	"	"	
Methylene chloride	18	2.6	27	"	"	"	"	"	"	C-06, J

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B2

T241339-05(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Styrene	ND	0.16	4.3	ug/m ³ Air	1.67	24C0479	03/28/24	03/30/24	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.17	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.17	3.0	"	"	"	"	"	"	
Tetrachloroethene	15	0.59	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.30	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.14	5.6	"	"	"	"	"	"	
Trichloroethene	1.6	0.16	5.5	"	"	"	"	"	"	J
Trichlorofluoromethane	4.1	0.16	5.7	"	"	"	"	"	"	J
1,3,5-Trimethylbenzene	0.50	0.23	5.0	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	1.8	0.22	5.0	"	"	"	"	"	"	J
Vinyl acetate	ND	0.91	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.093	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.44	18	"	"	"	"	"	"	
2-Butanone (MEK)	15	0.27	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.15	42	"	"	"	"	"	"	
Benzene	3.5	0.080	3.3	"	"	"	"	"	"	
Toluene	4.4	0.33	3.8	"	"	"	"	"	"	
Ethylbenzene	3.2	0.11	4.4	"	"	"	"	"	"	J
m,p-Xylene	8.1	0.14	8.8	"	"	"	"	"	"	J
o-Xylene	2.5	0.11	4.4	"	"	"	"	"	"	J
Surrogate: 4-Bromofluorobenzene			93.9 %	59.2-130		"	"	"	"	

Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B1

T241339-06(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	77	1.3	12	ug/m ³ Air	1.68	24C0479	03/28/24	03/30/24	TO-15	
1,3-Butadiene	32	0.17	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.089	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.33	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.30	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.11	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.18	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.12	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.20	2.7	"	"	"	"	"	"	
Chloroform	58	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.074	11	"	"	"	"	"	"	
Cyclohexane	ND	0.65	3.5	"	"	"	"	"	"	
Heptane	6.6	0.32	4.2	"	"	"	"	"	"	
Hexane	11	0.38	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.25	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.31	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.23	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.37	31	"	"	"	"	"	"	
Dichlorodifluoromethane	4.9	0.18	5.0	"	"	"	"	"	"	J
1,1-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.21	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.12	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.18	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.11	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.30	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.29	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.28	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.19	5.0	"	"	"	"	"	"	
Methylene chloride	13	2.6	27	"	"	"	"	"	"	C-06, J
Styrene	2.1	0.16	4.3	"	"	"	"	"	"	J

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B1

T241339-06(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1,2,2-Tetrachloroethane	ND	0.17	7.0	ug/m ³ Air	1.68	24C0479	03/28/24	03/30/24	TO-15	
Tetrahydrofuran	ND	0.17	3.0	"	"	"	"	"	"	
Tetrachloroethene	6.6	0.59	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.30	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	1.9	0.14	5.6	"	"	"	"	"	"	J
Trichloroethene	2.7	0.16	5.5	"	"	"	"	"	"	J
Trichlorofluoromethane	22	0.16	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	3.5	0.23	5.0	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	10	0.22	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.91	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.093	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.44	18	"	"	"	"	"	"	
2-Butanone (MEK)	20	0.27	15	"	"	"	"	"	"	
Methyl isobutyl ketone	2.9	0.15	42	"	"	"	"	"	"	J
Benzene	12	0.080	3.3	"	"	"	"	"	"	
Toluene	30	0.33	3.8	"	"	"	"	"	"	
Ethylbenzene	5.6	0.11	4.4	"	"	"	"	"	"	
m,p-Xylene	21	0.14	8.8	"	"	"	"	"	"	
o-Xylene	6.6	0.11	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 96.6 % 59.2-130 " " " "

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B4

T241339-07(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	78	1.3	12	ug/m ³ Air	1.63	24C0479	03/28/24	03/30/24	TO-15	
1,3-Butadiene	29	0.17	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.089	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.33	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.30	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.11	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.18	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.12	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.20	2.7	"	"	"	"	"	"	
Chloroform	110	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.074	11	"	"	"	"	"	"	
Cyclohexane	ND	0.65	3.5	"	"	"	"	"	"	
Heptane	ND	0.32	4.2	"	"	"	"	"	"	
Hexane	ND	0.38	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.25	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.31	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.23	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.37	31	"	"	"	"	"	"	
Dichlorodifluoromethane	12	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.21	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.12	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.18	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.11	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.30	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.29	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.28	4.6	"	"	"	"	"	"	
4-Ethyltoluene	6.6	0.19	5.0	"	"	"	"	"	"	
Methylene chloride	12	2.6	27	"	"	"	"	"	"	C-06, J
Styrene	4.3	0.16	4.3	"	"	"	"	"	"	

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B4

T241339-07(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1,2,2-Tetrachloroethane	ND	0.17	7.0	ug/m ³ Air	1.63	24C0479	03/28/24	03/30/24	TO-15	
Tetrahydrofuran	ND	0.17	3.0	"	"	"	"	"	"	
Tetrachloroethene	6.7	0.59	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.30	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	19	0.14	5.6	"	"	"	"	"	"	
Trichloroethene	6.3	0.16	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	80	0.16	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	7.3	0.23	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	25	0.22	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.91	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.093	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.44	18	"	"	"	"	"	"	
2-Butanone (MEK)	21	0.27	15	"	"	"	"	"	"	
Methyl isobutyl ketone	3.4	0.15	42	"	"	"	"	"	"	J
Benzene	16	0.080	3.3	"	"	"	"	"	"	
Toluene	13	0.33	3.8	"	"	"	"	"	"	
Ethylbenzene	34	0.11	4.4	"	"	"	"	"	"	
m,p-Xylene	140	0.14	8.8	"	"	"	"	"	"	
o-Xylene	49	0.11	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 98.6 % 59.2-130 " " " "

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B10

T241339-08(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	67	1.3	12	ug/m ³ Air	1.63	24C0479	03/28/24	03/30/24	TO-15	
1,3-Butadiene	ND	0.17	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.089	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.33	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.30	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.11	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.18	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.12	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.20	2.7	"	"	"	"	"	"	
Chloroform	3.4	0.15	5.0	"	"	"	"	"	"	J
Chloromethane	ND	0.074	11	"	"	"	"	"	"	
Cyclohexane	ND	0.65	3.5	"	"	"	"	"	"	
Heptane	7.1	0.32	4.2	"	"	"	"	"	"	
Hexane	9.7	0.38	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.25	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.31	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.23	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.37	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.21	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.12	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.18	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.11	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.30	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.29	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.28	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.19	5.0	"	"	"	"	"	"	
Methylene chloride	15	2.6	27	"	"	"	"	"	"	C-06, J

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B10

T241339-08(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Styrene	1.9	0.16	4.3	ug/m ³ Air	1.63	24C0479	03/28/24	03/30/24	TO-15	J
1,1,2,2-Tetrachloroethane	ND	0.17	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.17	3.0	"	"	"	"	"	"	
Tetrachloroethene	34	0.59	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.30	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.14	5.6	"	"	"	"	"	"	
Trichloroethene	5.2	0.16	5.5	"	"	"	"	"	"	J
Trichlorofluoromethane	23	0.16	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	8.6	0.23	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	28	0.22	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.91	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.093	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.44	18	"	"	"	"	"	"	
2-Butanone (MEK)	13	0.27	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.15	42	"	"	"	"	"	"	
Benzene	3.7	0.080	3.3	"	"	"	"	"	"	
Toluene	44	0.33	3.8	"	"	"	"	"	"	
Ethylbenzene	37	0.11	4.4	"	"	"	"	"	"	
m,p-Xylene	150	0.14	8.8	"	"	"	"	"	"	
o-Xylene	43	0.11	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene

91.6 %

59.2-130

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SunStar Laboratories, Inc.

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B11
T241339-09(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	67	1.3	12	ug/m ³ Air	1.63	24C0479	03/28/24	03/30/24	TO-15	
1,3-Butadiene	ND	0.17	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.089	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.33	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.30	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.11	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.18	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.12	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.20	2.7	"	"	"	"	"	"	
Chloroform	2.8	0.15	5.0	"	"	"	"	"	"	J
Chloromethane	ND	0.074	11	"	"	"	"	"	"	
Cyclohexane	ND	0.65	3.5	"	"	"	"	"	"	
Heptane	7.3	0.32	4.2	"	"	"	"	"	"	
Hexane	11	0.38	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.25	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.31	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.23	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.37	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.21	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.12	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.18	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.11	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.30	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.29	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.28	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.19	5.0	"	"	"	"	"	"	
Methylene chloride	15	2.6	27	"	"	"	"	"	"	C-06, J

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B11

T241339-09(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Styrene	2.0	0.16	4.3	ug/m ³ Air	1.63	24C0479	03/28/24	03/30/24	TO-15	J
1,1,2,2-Tetrachloroethane	ND	0.17	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.17	3.0	"	"	"	"	"	"	
Tetrachloroethene	24	0.59	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.30	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.14	5.6	"	"	"	"	"	"	
Trichloroethene	4.3	0.16	5.5	"	"	"	"	"	"	J
Trichlorofluoromethane	26	0.16	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	8.3	0.23	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	26	0.22	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.91	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.093	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.44	18	"	"	"	"	"	"	
2-Butanone (MEK)	13	0.27	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.15	42	"	"	"	"	"	"	
Benzene	3.7	0.080	3.3	"	"	"	"	"	"	
Toluene	45	0.33	3.8	"	"	"	"	"	"	
Ethylbenzene	34	0.11	4.4	"	"	"	"	"	"	
m,p-Xylene	140	0.14	8.8	"	"	"	"	"	"	
o-Xylene	41	0.11	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene

90.3 %

59.2-130

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SunStar Laboratories, Inc.

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B12

T241339-10(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	18	1.3	12	ug/m ³ Air	1.64	24C0479	03/28/24	03/30/24	TO-15	
1,3-Butadiene	ND	0.17	4.5	"	"	"	"	"	"	
Carbon Disulfide	4.5	0.089	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.33	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.30	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.11	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.18	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.12	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.20	2.7	"	"	"	"	"	"	
Chloroform	1.9	0.15	5.0	"	"	"	"	"	"	J
Chloromethane	ND	0.074	11	"	"	"	"	"	"	
Cyclohexane	ND	0.65	3.5	"	"	"	"	"	"	
Heptane	5.0	0.32	4.2	"	"	"	"	"	"	
Hexane	ND	0.38	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.25	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	2.8	0.31	31	"	"	"	"	"	"	J
1,3-Dichlorobenzene	2.2	0.23	31	"	"	"	"	"	"	J
1,4-Dichlorobenzene	2.5	0.37	31	"	"	"	"	"	"	J
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.21	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.12	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.18	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.11	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.30	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.29	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.28	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.19	5.0	"	"	"	"	"	"	
Methylene chloride	14	2.6	27	"	"	"	"	"	"	C-06, J
Styrene	2.1	0.16	4.3	"	"	"	"	"	"	J

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B12

T241339-10(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1,2,2-Tetrachloroethane	ND	0.17	7.0	ug/m ³ Air	1.64	24C0479	03/28/24	03/30/24	TO-15	
Tetrahydrofuran	ND	0.17	3.0	"	"	"	"	"	"	
Tetrachloroethene	3.3	0.59	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.30	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.14	5.6	"	"	"	"	"	"	
Trichloroethene	0.45	0.16	5.5	"	"	"	"	"	"	J
Trichlorofluoromethane	16	0.16	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	3.4	0.23	5.0	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	8.2	0.22	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.91	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.093	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.44	18	"	"	"	"	"	"	
2-Butanone (MEK)	9.8	0.27	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.15	42	"	"	"	"	"	"	
Benzene	6.3	0.080	3.3	"	"	"	"	"	"	
Toluene	55	0.33	3.8	"	"	"	"	"	"	
Ethylbenzene	5.4	0.11	4.4	"	"	"	"	"	"	
m,p-Xylene	20	0.14	8.8	"	"	"	"	"	"	
o-Xylene	6.0	0.11	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 90.6 % 59.2-130 " " " "

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B13

T241339-11(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	35	1.3	12	ug/m ³ Air	1.6	24C0479	03/28/24	03/30/24	TO-15	
1,3-Butadiene	ND	0.17	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.089	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.33	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.30	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.11	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.18	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.12	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.20	2.7	"	"	"	"	"	"	
Chloroform	1.1	0.15	5.0	"	"	"	"	"	"	J
Chloromethane	ND	0.074	11	"	"	"	"	"	"	
Cyclohexane	ND	0.65	3.5	"	"	"	"	"	"	
Heptane	10	0.32	4.2	"	"	"	"	"	"	
Hexane	6.8	0.38	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.25	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.31	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.23	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.37	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.21	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.12	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.18	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.11	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.30	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.29	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.28	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.19	5.0	"	"	"	"	"	"	
Methylene chloride	12	2.6	27	"	"	"	"	"	"	C-06, J

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B13
T241339-11(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Styrene	1.5	0.16	4.3	ug/m ³ Air	1.6	24C0479	03/28/24	03/30/24	TO-15	J
1,1,2,2-Tetrachloroethane	ND	0.17	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.17	3.0	"	"	"	"	"	"	
Tetrachloroethene	7.1	0.59	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.30	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.14	5.6	"	"	"	"	"	"	
Trichloroethene	1.5	0.16	5.5	"	"	"	"	"	"	J
Trichlorofluoromethane	0.92	0.16	5.7	"	"	"	"	"	"	J
1,3,5-Trimethylbenzene	5.8	0.23	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	19	0.22	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.91	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.093	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.44	18	"	"	"	"	"	"	
2-Butanone (MEK)	13	0.27	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.15	42	"	"	"	"	"	"	
Benzene	13	0.080	3.3	"	"	"	"	"	"	
Toluene	130	0.33	3.8	"	"	"	"	"	"	
Ethylbenzene	150	0.11	4.4	"	"	"	"	"	"	
m,p-Xylene	570	0.14	8.8	"	"	"	"	"	"	
o-Xylene	200	0.11	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 89.3 % 59.2-130 " " " "



Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B14

T241339-12(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	16	1.3	12	ug/m ³ Air	1.63	24C0479	03/28/24	03/30/24	TO-15	
1,3-Butadiene	0.44	0.17	4.5	"	"	"	"	"	"	J
Carbon Disulfide	ND	0.089	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.33	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.30	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.11	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.18	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.12	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.20	2.7	"	"	"	"	"	"	
Chloroform	0.57	0.15	5.0	"	"	"	"	"	"	J
Chloromethane	ND	0.074	11	"	"	"	"	"	"	
Cyclohexane	ND	0.65	3.5	"	"	"	"	"	"	
Heptane	14	0.32	4.2	"	"	"	"	"	"	
Hexane	ND	0.38	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.25	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.31	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.23	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.37	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.21	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.12	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.18	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.11	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.30	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.29	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.28	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.19	5.0	"	"	"	"	"	"	
Methylene chloride	12	2.6	27	"	"	"	"	"	"	C-06, J

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B14

T241339-12(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Styrene	0.99	0.16	4.3	ug/m ³ Air	1.63	24C0479	03/28/24	03/30/24	TO-15	J
1,1,2,2-Tetrachloroethane	ND	0.17	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.17	3.0	"	"	"	"	"	"	
Tetrachloroethene	5.6	0.59	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.30	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.14	5.6	"	"	"	"	"	"	
Trichloroethene	0.62	0.16	5.5	"	"	"	"	"	"	J
Trichlorofluoromethane	ND	0.16	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	2.1	0.23	5.0	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	7.2	0.22	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.91	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.093	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.44	18	"	"	"	"	"	"	
2-Butanone (MEK)	7.8	0.27	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.15	42	"	"	"	"	"	"	
Benzene	6.4	0.080	3.3	"	"	"	"	"	"	
Toluene	77	0.33	3.8	"	"	"	"	"	"	
Ethylbenzene	21	0.11	4.4	"	"	"	"	"	"	
m,p-Xylene	81	0.14	8.8	"	"	"	"	"	"	
o-Xylene	22	0.11	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			93.9 %	59.2-130		"	"	"	"	

Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B16

T241339-13(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	13	1.3	12	ug/m ³ Air	1.6	24C0479	03/28/24	03/30/24	TO-15	
1,3-Butadiene	ND	0.17	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.089	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.33	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.30	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.11	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.18	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.12	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.20	2.7	"	"	"	"	"	"	
Chloroform	1.7	0.15	5.0	"	"	"	"	"	"	J
Chloromethane	ND	0.074	11	"	"	"	"	"	"	
Cyclohexane	ND	0.65	3.5	"	"	"	"	"	"	
Heptane	7.8	0.32	4.2	"	"	"	"	"	"	
Hexane	7.3	0.38	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.25	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.31	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.23	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.37	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.21	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.12	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.18	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.11	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.30	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.29	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.28	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.19	5.0	"	"	"	"	"	"	
Methylene chloride	13	2.6	27	"	"	"	"	"	"	C-06, J

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B16

T241339-13(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Styrene	0.90	0.16	4.3	ug/m ³ Air	1.6	24C0479	03/28/24	03/30/24	TO-15	J
1,1,2,2-Tetrachloroethane	ND	0.17	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.17	3.0	"	"	"	"	"	"	
Tetrachloroethene	8.3	0.59	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.30	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.14	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.16	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.16	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	2.3	0.23	5.0	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	7.0	0.22	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.91	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.093	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.44	18	"	"	"	"	"	"	
2-Butanone (MEK)	6.5	0.27	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.15	42	"	"	"	"	"	"	
Benzene	6.0	0.080	3.3	"	"	"	"	"	"	
Toluene	57	0.33	3.8	"	"	"	"	"	"	
Ethylbenzene	5.9	0.11	4.4	"	"	"	"	"	"	
m,p-Xylene	23	0.14	8.8	"	"	"	"	"	"	
o-Xylene	6.8	0.11	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			91.1 %	59.2-130		"	"	"	"	

Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B3

T241339-14(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	7.0	1.3	12	ug/m ³ Air	1.66	24C0479	03/28/24	03/30/24	TO-15	J
1,3-Butadiene	ND	0.17	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.089	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.33	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.30	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.11	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.18	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.12	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.20	2.7	"	"	"	"	"	"	
Chloroform	88	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.074	11	"	"	"	"	"	"	
Cyclohexane	ND	0.65	3.5	"	"	"	"	"	"	
Heptane	11	0.32	4.2	"	"	"	"	"	"	
Hexane	6.7	0.38	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.25	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.31	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.23	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.37	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.21	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.12	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.18	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.11	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.30	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.29	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.28	4.6	"	"	"	"	"	"	
4-Ethyltoluene	3.4	0.19	5.0	"	"	"	"	"	"	J
Methylene chloride	21	2.6	27	"	"	"	"	"	"	C-06, J
Styrene	1.4	0.16	4.3	"	"	"	"	"	"	J

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B3

T241339-14(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1,2,2-Tetrachloroethane	ND	0.17	7.0	ug/m ³ Air	1.66	24C0479	03/28/24	03/30/24	TO-15	
Tetrahydrofuran	ND	0.17	3.0	"	"	"	"	"	"	
Tetrachloroethene	5.0	0.59	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.30	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.14	5.6	"	"	"	"	"	"	
Trichloroethene	0.36	0.16	5.5	"	"	"	"	"	"	J
Trichlorofluoromethane	1.6	0.16	5.7	"	"	"	"	"	"	J
1,3,5-Trimethylbenzene	3.8	0.23	5.0	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	12	0.22	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.91	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.093	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.44	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.27	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.15	42	"	"	"	"	"	"	
Benzene	9.1	0.080	3.3	"	"	"	"	"	"	
Toluene	44	0.33	3.8	"	"	"	"	"	"	
Ethylbenzene	7.8	0.11	4.4	"	"	"	"	"	"	
m,p-Xylene	31	0.14	8.8	"	"	"	"	"	"	
o-Xylene	8.5	0.11	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			90.2 %	59.2-130		"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B6

T241339-15(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	11	1.3	12	ug/m ³ Air	1.64	24C0479	03/28/24	03/30/24	TO-15	J
1,3-Butadiene	ND	0.17	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.089	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.33	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.30	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.11	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.18	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.12	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.20	2.7	"	"	"	"	"	"	
Chloroform	140	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.074	11	"	"	"	"	"	"	
Cyclohexane	ND	0.65	3.5	"	"	"	"	"	"	
Heptane	44	0.32	4.2	"	"	"	"	"	"	
Hexane	ND	0.38	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.25	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.31	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.23	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	1.0	0.37	31	"	"	"	"	"	"	J
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.21	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.12	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.18	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.11	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.30	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.29	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.28	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.19	5.0	"	"	"	"	"	"	
Methylene chloride	15	2.6	27	"	"	"	"	"	"	C-06, J

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

B6

T241339-15(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Styrene	10	0.16	4.3	ug/m ³ Air	1.64	24C0479	03/28/24	03/30/24	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.17	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.17	3.0	"	"	"	"	"	"	
Tetrachloroethene	10	0.59	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.30	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.14	5.6	"	"	"	"	"	"	
Trichloroethene	0.27	0.16	5.5	"	"	"	"	"	"	J
Trichlorofluoromethane	1.3	0.16	5.7	"	"	"	"	"	"	J
1,3,5-Trimethylbenzene	65	0.23	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	180	0.22	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.91	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.093	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.44	18	"	"	"	"	"	"	
2-Butanone (MEK)	6.8	0.27	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.15	42	"	"	"	"	"	"	
Benzene	24	0.080	3.3	"	"	"	"	"	"	
Toluene	630	0.33	3.8	"	"	"	"	"	"	
Ethylbenzene	87	0.11	4.4	"	"	"	"	"	"	
m,p-Xylene	380	0.14	8.8	"	"	"	"	"	"	
o-Xylene	96	0.11	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 90.5 % 59.2-130 " " " "





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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 24C0479 - Canister Analysis

Blank (24C0479-BLK1)

Prepared: 03/28/24 Analyzed: 03/29/24

Surrogate: 4-Bromofluorobenzene	325			ug/m ³ Air	362		89.8	59.2-130			
Acetone	ND	1.3	12	"							
1,3-Butadiene	ND	0.17	4.5	"							
Carbon Disulfide	ND	0.089	3.2	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"							
Isopropyl alcohol	ND	0.33	13	"							
Bromodichloromethane	ND	0.30	6.8	"							
Bromoform	ND	0.23	11	"							
Bromomethane	ND	0.11	20	"							
Carbon tetrachloride	ND	0.18	6.4	"							
Chlorobenzene	ND	0.12	4.7	"							
Chloroethane	ND	0.20	2.7	"							
Chloroform	ND	0.15	5.0	"							
Chloromethane	ND	0.074	11	"							
Cyclohexane	ND	0.65	3.5	"							
Heptane	ND	0.32	4.2	"							
Hexane	ND	0.38	3.6	"							
Dibromochloromethane	ND	0.25	8.7	"							
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"							
1,2-Dichlorobenzene	ND	0.31	31	"							
1,3-Dichlorobenzene	ND	0.23	31	"							
1,4-Dichlorobenzene	ND	0.37	31	"							
Dichlorodifluoromethane	ND	0.18	5.0	"							
1,1-Dichloroethane	ND	0.16	4.1	"							
1,2-Dichloroethane	ND	0.21	4.1	"							
1,1-Dichloroethene	ND	0.12	4.0	"							

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 24C0479 - Canister Analysis

Blank (24C0479-BLK1)

Prepared: 03/28/24 Analyzed: 03/29/24

cis-1,2-Dichloroethene	ND	0.18	4.0	ug/m³ Air							
trans-1,2-Dichloroethene	ND	0.11	4.0	"							
1,2-Dichloropropane	ND	0.30	4.7	"							
cis-1,3-Dichloropropene	ND	0.29	4.6	"							
trans-1,3-Dichloropropene	ND	0.28	4.6	"							
4-Ethyltoluene	ND	0.19	5.0	"							
Methylene chloride	6.82	2.6	27	"							B-03, J
Styrene	ND	0.16	4.3	"							
1,1,2,2-Tetrachloroethane	ND	0.17	7.0	"							
Tetrahydrofuran	ND	0.17	3.0	"							
Tetrachloroethene	ND	0.59	6.9	"							
1,1,2-Trichloroethane	ND	0.30	5.6	"							
1,1,1-Trichloroethane	ND	0.14	5.6	"							
Trichloroethene	ND	0.16	5.5	"							
Trichlorofluoromethane	ND	0.16	5.7	"							
1,3,5-Trimethylbenzene	ND	0.23	5.0	"							
1,2,4-Trimethylbenzene	ND	0.22	5.0	"							
Vinyl acetate	ND	0.91	3.6	"							
Vinyl chloride	ND	0.093	2.6	"							
1,4-Dioxane	ND	0.44	18	"							
2-Butanone (MEK)	ND	0.27	15	"							
Methyl isobutyl ketone	ND	0.15	42	"							
Benzene	ND	0.080	3.3	"							
Toluene	ND	0.33	3.8	"							
Ethylbenzene	ND	0.11	4.4	"							
m,p-Xylene	ND	0.14	8.8	"							
o-Xylene	ND	0.11	4.4	"							

SunStar Laboratories, Inc.

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Lake Forest, California 92630
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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 24C0479 - Canister Analysis

Duplicate (24C0479-DUP1)

Source: T241339-01

Prepared: 03/28/24 Analyzed: 03/29/24

<i>Surrogate: 4-Bromofluorobenzene</i>	329			ug/m ³ Air	362		90.7	59.2-130			
Acetone	31.5	1.3	12	"		36.1			13.6	30	
1,3-Butadiene	7.07	0.17	4.5	"		9.07			24.8	30	
Carbon Disulfide	ND	0.089	3.2	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"		ND				30	
Isopropyl alcohol	ND	0.33	13	"		ND				30	
Bromodichloromethane	ND	0.30	6.8	"		ND				30	
Bromoform	ND	0.23	11	"		ND				30	
Bromomethane	ND	0.11	20	"		ND				30	
Carbon tetrachloride	ND	0.18	6.4	"		ND				30	
Chlorobenzene	ND	0.12	4.7	"		ND				30	
Chloroethane	ND	0.20	2.7	"		ND				30	
Chloroform	121	0.15	5.0	"		126			3.71	30	
Chloromethane	ND	0.074	11	"		ND				30	
Cyclohexane	ND	0.65	3.5	"		ND				30	
Heptane	ND	0.32	4.2	"		4.12				30	
Hexane	ND	0.38	3.6	"		ND				30	
Dibromochloromethane	ND	0.25	8.7	"		ND				30	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"		ND				30	
1,2-Dichlorobenzene	ND	0.31	31	"		ND				30	
1,3-Dichlorobenzene	ND	0.23	31	"		ND				30	
1,4-Dichlorobenzene	ND	0.37	31	"		ND				30	
Dichlorodifluoromethane	ND	0.18	5.0	"		ND				30	
1,1-Dichloroethane	ND	0.16	4.1	"		ND				30	
1,2-Dichloroethane	ND	0.21	4.1	"		ND				30	
1,1-Dichloroethene	ND	0.12	4.0	"		ND				30	

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/03/24 18:38

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 24C0479 - Canister Analysis

Duplicate (24C0479-DUP1)		Source: T241339-01			Prepared: 03/28/24		Analyzed: 03/29/24				
cis-1,2-Dichloroethene	ND	0.18	4.0	ug/m³ Air		ND			30		
trans-1,2-Dichloroethene	ND	0.11	4.0	"		ND			30		
1,2-Dichloropropane	ND	0.30	4.7	"		ND			30		
cis-1,3-Dichloropropene	ND	0.29	4.6	"		ND			30		
trans-1,3-Dichloropropene	ND	0.28	4.6	"		ND			30		
4-Ethyltoluene	ND	0.19	5.0	"		ND			30		
Methylene chloride	12.5	2.6	27	"		12.9		3.15	30		C-06, J
Styrene	1.19	0.16	4.3	"		1.40		16.2	30		J
1,1,2,2-Tetrachloroethane	ND	0.17	7.0	"		ND			30		
Tetrahydrofuran	ND	0.17	3.0	"		ND			30		
Tetrachloroethene	5.26	0.59	6.9	"		5.14		2.15	30		J
1,1,2-Trichloroethane	ND	0.30	5.6	"		ND			30		
1,1,1-Trichloroethane	ND	0.14	5.6	"		ND			30		
Trichloroethene	ND	0.16	5.5	"		ND			30		
Trichlorofluoromethane	0.930	0.16	5.7	"		1.21		26.1	30		J
1,3,5-Trimethylbenzene	4.29	0.23	5.0	"		4.29		0.00	30		J
1,2,4-Trimethylbenzene	13.5	0.22	5.0	"		12.8		5.54	30		
Vinyl acetate	ND	0.91	3.6	"		ND			30		
Vinyl chloride	ND	0.093	2.6	"		ND			30		
1,4-Dioxane	ND	0.44	18	"		ND			30		
2-Butanone (MEK)	13.4	0.27	15	"		15.1		11.9	30		J
Methyl isobutyl ketone	ND	0.15	42	"		ND			30		
Benzene	5.69	0.080	3.3	"		6.21		8.85	30		
Toluene	17.5	0.33	3.8	"		18.7		6.87	30		
Ethylbenzene	191	0.11	4.4	"		204		6.58	30		
m,p-Xylene	759	0.14	8.8	"		802		5.49	30		
o-Xylene	252	0.11	4.4	"		269		6.73	30		

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

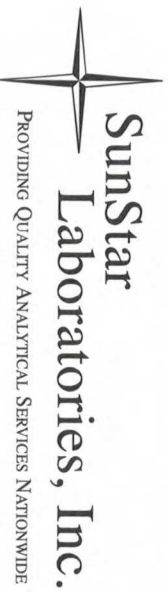
Reported:
04/03/24 18:38

Notes and Definitions

J	Detected but below the Standard Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
C-06	Presence of analyte in sample suspected as common laboratory contaminant, which was also found in the method blank.
B-03	Analyte present in blank due to being a common laboratory contaminant.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

AIR LABORATORY

Chain of Custody Record



25712 Commercecentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Northgate Env. Management, Inc
Address: 92 Argonaut Suite 100, Aliso Viejo
Phone: 714-604-6726 Fax: _____
Project Manager: Derrick Willis

Date: 03/26/2024 Page: 1 of 1
Project Name: Holland Boomers
Collector: Ricardo Munoz Client Project #: 2047-28
Batch #: T241339 EDF #: Report EDD

Laboratory ID #	Sample ID	Date Sampled	Start Time	Finish Time	Sample Type : Soil Gas Indoor Air	Container Type: Summa Can / Tedlar	Initial Pressure	Final Pressure	TO-3	TO-14	TO-15	Methane by GC - FID	Fixed Gases by TCD	RSK - 175	Summa Can, Manifold # / Comments
01	B39	3/25/24	1124	1130	Soil Gas	Summa	-30	-5							0369 18691
02	B38		1145	1152											0484 / 8691
03	B37		1207	1215											0850 / 8703
04	B35		1232	1239											0396 / 8703
05	B32		1305	1312											0347 / 8691
06	B31		1330	1337											0356 / 8691
07	B34		1349	1356											0666 / 8703
08	B10	3/26/24	0920	0927											0160 / 8703
09	B11		0940	0947											0247 / 8703
10	B12		1002	1009											0275 / 8691
11	B13		1027	1034											0766 / 8703
12	B14		1052	1059											0651 / 8691
13	B16		1115	1122											0276 / 8703
14	B33		1142	1149											0372 / 8691
15	B36		1206	1213											0444 / 8703
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time		Total # of containers		Chain of Custody seals Y/N/NA		Seals intact? Y/N/NA		Notes	
[Signature]		03/26/2024 13:50		[Signature]		3/26/24 13:50		15		NA		NA		1.82	
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time		Received good condition/cold		Turn around time: 5H					
[Signature]				[Signature]											

* TO-15 SIM analysis available upon prior notification. (Precertified Summa cans needed)



SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 724/339
Client Name: Northgate Project: Holland Boomers
Delivered by: ☒ Client ☐ SunStar Courier ☐ GLS ☐ FedEx ☐ Other
If Courier, Received by: _____ Date/Time Courier Received: _____
Lab Received by: Paul Date/Time Lab Received: 3/26/24 13:50
Total number of coolers received: 0 Thermometer ID: SC-1 Calibration due: 11/17/2024

Temperature: Cooler #1	°C +/- the CF (+ 0.1°C) =	°C corrected temperature
Temperature: Cooler #2	°C +/- the CF (+ 0.1°C) =	°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (+ 0.1°C) =	°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria? ☐ Yes ☐ No ☒ N/A
If NO:		
Samples received on ice?	☐ Yes	☐ No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	☐ Yes → Acceptable	☐ No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample ☐ Yes ☐ No* ☒ N/A
Sample containers intact ☒ Yes ☐ No*
Sample labels match Chain of Custody IDs ☒ Yes ☐ No*
Total number of containers received match COC ☒ Yes ☐ No*
Proper containers received for analyses requested on COC ☒ Yes ☐ No*
Proper preservative indicated on COC/containers for analyses requested ☐ Yes ☐ No* ☒ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: PB 3/26/24

Comments:



Project Name: AIR ORDER				Irma	
Company: NORTHGATE				PB	
Name: ANTHONY BORGES					
Item	Quantity	Unit			
2 oz Jars 24/CS					
4 oz Jars 24/CS					
8 oz Jars 12/CS					
40 ml unpreserved VOAs 100/box					
40 ml HCL-preserved VOAs 72/box					
250 ml Poly 24/CS					
500 ml Poly 16/CS					
1 Liter Poly 12/CS					
500 ml Amber Bottle Wide 12/CS					
1 Liter Amber Bottle 12/CS					
1 Gallon Poly 4/box					
5035 kits:(2)Sodium Bisulfate VOAs 72/box					
	(1) Methanol VOA 72/box				
	(1) TERRACORE				
Lock-N-Load Handle 1/ea					
Tedlar Bags 10/pack					
Sub Slab Insert w/ washer & N/F					
Soil Gas SS 16" Drop Tubes					
Gas Extraction Fittings					
Soil Gas Filters					
	Volume of Summa	# Sent	Used	Unused	Unreturned
Batch Certified Summa Canisters	400cc				
	1L				
	3L				
	6L				
Purge cans					
Nitrogen cans	400cc	14	NO CHARGE	0	0
Ind. Cerified Summa Cannisters	1L	16+2	CHARGE 16	3	0
	3L				
	6L				
63/153 Manifolds, Var. Sampler, etc. Calibrated Correctly - Gauge Reads at 0					PB
Manifolds: Inst. Sampler, Variable Sampler, Shut In Set Ups, 150ml/mn, 63ml/mn		2 (150)	CHARGE 1	0	
Swagelok Fittings: Nuts/Ferrules, Ts		16 NF	CHARGE 16	16	
Cooler (Sm, Med, Lrg) Number & Quantity					
Other: Poly Tube, Valves, Silicon Tape, etc.					
Prepared By: PB			Date: 3/21/24		
Reviewed By:			Date:		
Comments:					
Cooler Policy: Failure to return cooler(s) within 30 days of receipt or if the returned cooler(s) are in unusable condition, will result in a \$50 per cooler fee for replacement costs.					

Check In Report



Barcode	Description	Due Date	In Date	Condition	From Emp/Loc	To Storage Location	Bin Qty	Status
0369	1000 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
0484	1000 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
0850	1000 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
0396	1000 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
0347	1000 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
0356	1000 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
0666	1000 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
0260	1000 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
0247	1000 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
0275	1000 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
0760	1000 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		



Check In Report

Barcode	Description	Due Date	In Date	Condition	From Emp/Loc	To Storage Location	Bin Qty	Status
0651	1000 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
0270	1000 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
0372	1000 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
0444	1000 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
0450	1000 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
0423	1000 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
0253	1000 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
4096	400 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
4076	400 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
4011	400 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
4032	400 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		

Check In Report

Barcode	Description	Due Date	In Date	Condition	From Emp/Loc	To Storage Location	Bin Qty	Status
4026	400 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
4054	400 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
4090	400 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
4092	400 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
4041	400 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
4047	400 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
4078	400 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
4042	400 cc	3/31/2024	3/26/2024 07:35 PM		General Office - Northgate Environmental	SunStar Labs South		
4010	400 cc	3/31/2024	3/26/2024 07:36 PM		General Office - Northgate Environmental	SunStar Labs South		
4055	400 cc	3/31/2024	3/26/2024 07:36 PM		General Office - Northgate Environmental	SunStar Labs South		
8703	150 cc	3/31/2024	3/26/2024 07:36 PM		General Office - Northgate Environmental	SunStar Labs South		



Check In Report

Barcode	Description	Due Date	In Date	Condition	From Emp/Loc	To Storage Location	Bin Qty	Status
8691	150 cc	3/31/2024	3/26/2024 07:36 PM		General Office - Northgate Environmental	SunStar Labs South		

WORK ORDER

T241339

Client: Northgate Environmental Management -- Aliso Viejo

Project Manager: Jeff Lee

Project: Holland Boomers

Project Number: 2047.28

Report To:

Northgate Environmental Management -- Aliso Viejo
Derrick Willis
92 Argonaut, Suite 100
Aliso Viejo, CA 92656

Date Due: 04/04/24 00:00 (7 day TAT)

Received By: Paul Berner

Date Received: 03/26/24 13:50

Logged In By: Steven Garcia

Date Logged In: 03/27/24 09:02

Samples Received at: **1.8°C**
Custody Seals No Received On Ice No
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confirmed No

Analysis	Due	TAT	Expires	Comments
T241339-01 B9 [Air] Sampled 03/25/24 11:30 (GMT-08:00) Pacific Time (US &				
TO-15	04/04/24 00:00	7	04/24/24 11:30	
T241339-02 B8 [Air] Sampled 03/25/24 11:52 (GMT-08:00) Pacific Time (US &				
TO-15	04/04/24 00:00	7	04/24/24 11:52	
T241339-03 B7 [Air] Sampled 03/25/24 12:15 (GMT-08:00) Pacific Time (US &				
TO-15	04/04/24 00:00	7	04/24/24 12:15	
T241339-04 B5 [Air] Sampled 03/25/24 12:39 (GMT-08:00) Pacific Time (US &				
TO-15	04/04/24 00:00	7	04/24/24 12:39	
T241339-05 B2 [Air] Sampled 03/25/24 13:12 (GMT-08:00) Pacific Time (US &				
TO-15	04/04/24 00:00	7	04/24/24 13:12	
T241339-06 B1 [Air] Sampled 03/25/24 13:37 (GMT-08:00) Pacific Time (US &				
TO-15	04/04/24 00:00	7	04/24/24 13:37	
T241339-07 B4 [Air] Sampled 03/25/24 13:56 (GMT-08:00) Pacific Time (US &				
TO-15	04/04/24 00:00	7	04/24/24 13:56	
T241339-08 B10 [Air] Sampled 03/26/24 09:27 (GMT-08:00) Pacific Time (US &				
TO-15	04/04/24 00:00	7	04/25/24 09:27	
T241339-09 B11 [Air] Sampled 03/26/24 09:47 (GMT-08:00) Pacific Time (US &				
TO-15	04/04/24 00:00	7	04/25/24 09:47	

WORK ORDER

T241339

Client: Northgate Environmental Management -- Aliso Viejo
Project: Holland Boomers

Project Manager: Jeff Lee
Project Number: 2047.28

Analysis	Due	TAT	Expires	Comments
T241339-10 B12 [Air] Sampled 03/26/24 10:09 (GMT-08:00) Pacific Time (US &				
TO-15	04/04/24 00:00	7	04/25/24 10:09	
T241339-11 B13 [Air] Sampled 03/26/24 10:34 (GMT-08:00) Pacific Time (US &				
TO-15	04/04/24 00:00	7	04/25/24 10:34	
T241339-12 B14 [Air] Sampled 03/26/24 10:59 (GMT-08:00) Pacific Time (US &				
TO-15	04/04/24 00:00	7	04/25/24 10:59	
T241339-13 B16 [Air] Sampled 03/26/24 11:22 (GMT-08:00) Pacific Time (US &				
TO-15	04/04/24 00:00	7	04/25/24 11:22	
T241339-14 B3 [Air] Sampled 03/26/24 11:49 (GMT-08:00) Pacific Time (US &				
TO-15	04/04/24 00:00	7	04/25/24 11:49	
T241339-15 B6 [Air] Sampled 03/26/24 12:13 (GMT-08:00) Pacific Time (US &				
TO-15	04/04/24 00:00	7	04/25/24 12:13	



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

02 April 2024

Derrick Willis
Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo, CA 92656
RE: Holland Boomers

Enclosed are the results of analyses for samples received by the laboratory on 03/26/24 13:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Lee
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/02/24 15:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B17-1	T241341-01	Soil	03/25/24 14:27	03/26/24 13:50
B18-1	T241341-04	Soil	03/25/24 15:00	03/26/24 13:50
B19-1	T241341-07	Soil	03/25/24 15:30	03/26/24 13:50

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager

Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/02/24 15:22

DETECTIONS SUMMARY

Sample ID: B17-1

Laboratory ID: T241341-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
4,4'-DDE	0.53	0.050	mg/kg	EPA 8081A	
4,4'-DDT	0.021	0.0050	mg/kg	EPA 8081A	
Toxaphene	0.93	0.20	mg/kg	EPA 8081A	

Sample ID: B18-1

Laboratory ID: T241341-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
4,4'-DDE	0.13	0.0050	mg/kg	EPA 8081A	
4,4'-DDT	0.0088	0.0050	mg/kg	EPA 8081A	
Toxaphene	0.36	0.020	mg/kg	EPA 8081A	

Sample ID: B19-1

Laboratory ID: T241341-07

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
4,4'-DDE	0.43	0.050	mg/kg	EPA 8081A	
4,4'-DDT	0.019	0.0050	mg/kg	EPA 8081A	
Toxaphene	0.80	0.20	mg/kg	EPA 8081A	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/02/24 15:22

B17-1
T241341-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	0.0050	mg/kg	1	24C0480	03/28/24	04/01/24	EPA 8081A	
gamma-BHC (Lindane)	ND	0.0050	"	"	"	"	"	"	
beta-BHC	ND	0.0050	"	"	"	"	"	"	
delta-BHC	ND	0.0050	"	"	"	"	"	"	
Heptachlor	ND	0.0050	"	"	"	"	"	"	
Aldrin	ND	0.0050	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0050	"	"	"	"	"	"	
gamma-Chlordane	ND	0.0050	"	"	"	"	"	"	
alpha-Chlordane	ND	0.0050	"	"	"	"	"	"	
Endosulfan I	ND	0.0050	"	"	"	"	"	"	
4,4'-DDE	0.53	0.050	"	10	"	"	"	"	
Dieldrin	ND	0.0050	"	1	"	"	"	"	
Endrin	ND	0.0050	"	"	"	"	"	"	
4,4'-DDD	ND	0.0050	"	"	"	"	"	"	
Endosulfan II	ND	0.0050	"	"	"	"	"	"	
4,4'-DDT	0.021	0.0050	"	"	"	"	"	"	
Endrin aldehyde	ND	0.0050	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0050	"	"	"	"	"	"	
Methoxychlor	ND	0.0050	"	"	"	"	"	"	
Endrin ketone	ND	0.0050	"	"	"	"	"	"	
Toxaphene	0.93	0.20	"	10	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		78.2 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		57.8 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/02/24 15:22

B18-1

T241341-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	0.0050	mg/kg	1	24C0480	03/28/24	04/01/24	EPA 8081A	
gamma-BHC (Lindane)	ND	0.0050	"	"	"	"	"	"	
beta-BHC	ND	0.0050	"	"	"	"	"	"	
delta-BHC	ND	0.0050	"	"	"	"	"	"	
Heptachlor	ND	0.0050	"	"	"	"	"	"	
Aldrin	ND	0.0050	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0050	"	"	"	"	"	"	
gamma-Chlordane	ND	0.0050	"	"	"	"	"	"	
alpha-Chlordane	ND	0.0050	"	"	"	"	"	"	
Endosulfan I	ND	0.0050	"	"	"	"	"	"	
4,4'-DDE	0.13	0.0050	"	"	"	"	"	"	
Dieldrin	ND	0.0050	"	"	"	"	"	"	
Endrin	ND	0.0050	"	"	"	"	"	"	
4,4'-DDD	ND	0.0050	"	"	"	"	"	"	
Endosulfan II	ND	0.0050	"	"	"	"	"	"	
4,4'-DDT	0.0088	0.0050	"	"	"	"	"	"	
Endrin aldehyde	ND	0.0050	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0050	"	"	"	"	"	"	
Methoxychlor	ND	0.0050	"	"	"	"	"	"	
Endrin ketone	ND	0.0050	"	"	"	"	"	"	
Toxaphene	0.36	0.020	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		74.5 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		46.2 %	35-140		"	"	"	"	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/02/24 15:22

B19-1

T241341-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	0.0050	mg/kg	1	24C0480	03/28/24	04/01/24	EPA 8081A	
gamma-BHC (Lindane)	ND	0.0050	"	"	"	"	"	"	
beta-BHC	ND	0.0050	"	"	"	"	"	"	
delta-BHC	ND	0.0050	"	"	"	"	"	"	
Heptachlor	ND	0.0050	"	"	"	"	"	"	
Aldrin	ND	0.0050	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0050	"	"	"	"	"	"	
gamma-Chlordane	ND	0.0050	"	"	"	"	"	"	
alpha-Chlordane	ND	0.0050	"	"	"	"	"	"	
Endosulfan I	ND	0.0050	"	"	"	"	"	"	
4,4'-DDE	0.43	0.050	"	10	"	"	"	"	
Dieldrin	ND	0.0050	"	1	"	"	"	"	
Endrin	ND	0.0050	"	"	"	"	"	"	
4,4'-DDD	ND	0.0050	"	"	"	"	"	"	
Endosulfan II	ND	0.0050	"	"	"	"	"	"	
4,4'-DDT	0.019	0.0050	"	"	"	"	"	"	
Endrin aldehyde	ND	0.0050	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0050	"	"	"	"	"	"	
Methoxychlor	ND	0.0050	"	"	"	"	"	"	
Endrin ketone	ND	0.0050	"	"	"	"	"	"	
Toxaphene	0.80	0.20	"	10	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		52.6 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		28.2 %		35-140	"	"	"	"	S-GC

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/02/24 15:22

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 24C0480 - EPA 3550C ECD/GCMS

Blank (24C0480-BLK1)

Prepared: 03/28/24 Analyzed: 04/01/24

alpha-BHC	ND	0.0050	mg/kg							
gamma-BHC (Lindane)	ND	0.0050	"							
beta-BHC	ND	0.0050	"							
delta-BHC	ND	0.0050	"							
Heptachlor	ND	0.0050	"							
Aldrin	ND	0.0050	"							
Heptachlor epoxide	ND	0.0050	"							
gamma-Chlordane	ND	0.0050	"							
alpha-Chlordane	ND	0.0050	"							
Endosulfan I	ND	0.0050	"							
4,4'-DDE	ND	0.0050	"							
Dieldrin	ND	0.0050	"							
Endrin	ND	0.0050	"							
4,4'-DDD	ND	0.0050	"							
Endosulfan II	ND	0.0050	"							
4,4'-DDT	ND	0.0050	"							
Endrin aldehyde	ND	0.0050	"							
Endosulfan sulfate	ND	0.0050	"							
Methoxychlor	ND	0.0050	"							
Endrin ketone	ND	0.0050	"							
Toxaphene	ND	0.020	"							
Surrogate: Tetrachloro-meta-xylene	0.00916		"	0.0100		91.6	35-140			
Surrogate: Decachlorobiphenyl	0.00901		"	0.0100		90.1	35-140			

LCS (24C0480-BS1)

Prepared: 03/28/24 Analyzed: 04/01/24

gamma-BHC (Lindane)	0.0441	0.0050	mg/kg	0.0404	109	40-120	
Heptachlor	0.0450	0.0050	"	0.0400	112	40-120	
Aldrin	0.0376	0.0050	"	0.0400	94.0	40-120	
Dieldrin	0.0415	0.0050	"	0.0402	103	40-120	
Endrin	0.0435	0.0050	"	0.0402	108	40-120	
4,4'-DDT	0.0437	0.0050	"	0.0404	108	33-147	
Surrogate: Tetrachloro-meta-xylene	0.0104		"	0.0100	104	35-140	
Surrogate: Decachlorobiphenyl	0.00981		"	0.0100	98.1	35-140	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/02/24 15:22

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 24C0480 - EPA 3550C ECD/GCMS

LCS Dup (24C0480-BSD1)

Prepared: 03/28/24 Analyzed: 04/01/24

gamma-BHC (Lindane)	0.0401	0.0050	mg/kg	0.0404		99.1	40-120	9.53	30	
Heptachlor	0.0405	0.0050	"	0.0400		101	40-120	10.5	30	
Aldrin	0.0330	0.0050	"	0.0400		82.5	40-120	13.1	30	
Dieldrin	0.0373	0.0050	"	0.0402		92.7	40-120	10.7	30	
Endrin	0.0397	0.0050	"	0.0402		98.8	40-120	9.12	30	
4,4'-DDT	0.0401	0.0050	"	0.0404		99.2	33-147	8.59	30	
Surrogate: Tetrachloro-meta-xylene	0.00944		"	0.0100		94.4	35-140			
Surrogate: Decachlorobiphenyl	0.00904		"	0.0100		90.4	35-140			

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Northgate Environmental Management -- Aliso Viejo
92 Argonaut, Suite 100
Aliso Viejo CA, 92656

Project: Holland Boomers
Project Number: 2047.28
Project Manager: Derrick Willis

Reported:
04/02/24 15:22

Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager



SunStar
Laboratories, Inc.

Chain of Custody Record

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commerce Drive, Lake Forest, CA 92630
949-297-5020

Client: Northgate Environmental Management, Inc.
Address: 92 Argonaut Suite 100, Aliso Viejo
Phone: 714 664 6726 Fax: _____
Project Manager: Derrick Willis

Date: 3/26/2024 Page: 1 Of 1
Project Name: Holland Boomers
Collector: Ricardo Munoz Client Project #: 2047.28
Batch #: 241341 EDF #: Report END

Laboratory ID #	Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8081 OCPs	Comments/Preservative	Total # of containers
01	B17-1	3/25/24	1427	Soil	jar											X		
02	B17-3		1429															
03	B17-5		1433															
04	B18-1		1500													X		
05	B18-3		1502															
06	B18-5		1504															
07	B19-1		1530													X		
08	B19-3		1532															
09	B19-5		1534															
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>3/26/2024 13:50</u>																		
Received by: (signature) <u>[Signature]</u> Date / Time <u>3/26/24 13:50</u>																		
Relinquished by: (signature) _____ Date / Time _____																		
Received by: (signature) _____ Date / Time _____																		
Relinquished by: (signature) _____ Date / Time _____																		
Received by: (signature) _____ Date / Time _____																		
Total # of containers <u>9</u>																		
Chain of Custody seals Y/N/NA <u>NA</u>																		
Seals intact? Y/N/NA <u>NA</u>																		
Received good condition/cold <u>✓</u>																		
Turn around time: <u>5th</u>																		
Notes <u>1.86</u>																		
Total # of containers																		

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T241341
 Client Name: Northgate Project: Holland Boomers
 Delivered by: ☒ Client ☐ SunStar Courier ☐ GLS ☐ FedEx ☐ Other
 If Courier, Received by: _____ Date/Time Courier Received: _____
 Lab Received by: Paul Date/Time Lab Received: 3/26/24 1350
 Total number of coolers received: 1 Thermometer ID: SC-1 Calibration due: 11/17/2024

Temperature: Cooler #1	<u>1.7</u> °C +/- the CF (+ 0.1°C) = <u>1.8</u> °C corrected temperature
Temperature: Cooler #2	°C +/- the CF (+ 0.1°C) = °C corrected temperature
Temperature: Cooler #3	°C +/- the CF (+ 0.1°C) = °C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria? ☒ Yes ☐ No ☐ N/A
If NO:	
Samples received on ice?	☐ Yes ☐ No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	☐ Yes → Acceptable ☐ No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample ☒ Yes ☐ No* ☒ N/A
 Sample containers intact ☒ Yes ☐ No*
 Sample labels match Chain of Custody IDs ☒ Yes ☐ No*
 Total number of containers received match COC ☒ Yes ☐ No*
 Proper containers received for analyses requested on COC ☒ Yes ☐ No*
 Proper preservative indicated on COC/containers for analyses requested ☐ Yes ☐ No* ☒ N/A
 Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: M.L 3/26/24

Comments:

WORK ORDER

T241341

Client: Northgate Environmental Management -- Aliso Viejo
Project: Holland Boomers
Project Manager: Jeff Lee
Project Number: 2047.28

Report To:

Northgate Environmental Management -- Aliso Viejo
Derrick Willis
92 Argonaut, Suite 100
Aliso Viejo, CA 92656

Date Due: 04/02/24 17:00 (5 day TAT)
Received By: Paul Berner
Logged In By: Steven Garcia
Date Received: 03/26/24 13:50
Date Logged In: 03/27/24 09:15

Samples Received at: 1.8°C
Custody Seals: No
Containers Intact: Yes
COC/Labels Agree: Yes
Preservation Confirmed: No

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

T241341-01 B17-1 [Soil] Sampled 03/25/24 14:27 (GMT-08:00) Pacific Time (US & 8081 Pesticides	04/02/24 15:00	5	04/08/24 14:27	
--	----------------	---	----------------	--

T241341-02 B17-3 [Soil] Sampled 03/25/24 14:29 (GMT-08:00) Pacific Time (US HOLD & [NO ANALYSES]				
---	--	--	--	--

T241341-03 B17-5 [Soil] Sampled 03/25/24 14:33 (GMT-08:00) Pacific Time (US HOLD & [NO ANALYSES]				
---	--	--	--	--

T241341-04 B18-1 [Soil] Sampled 03/25/24 15:00 (GMT-08:00) Pacific Time (US & 8081 Pesticides	04/02/24 15:00	5	04/08/24 15:00	
--	----------------	---	----------------	--

T241341-05 B18-3 [Soil] Sampled 03/25/24 15:02 (GMT-08:00) Pacific Time (US HOLD & [NO ANALYSES]				
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T241341-06 B18-5 [Soil] Sampled 03/25/24 15:04 (GMT-08:00) Pacific Time (US HOLD & [NO ANALYSES]				
---	--	--	--	--

T241341-07 B19-1 [Soil] Sampled 03/25/24 15:30 (GMT-08:00) Pacific Time (US & 8081 Pesticides	04/02/24 15:00	5	04/08/24 15:30	
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WORK ORDER

T241341

Client: Northgate Environmental Management -- Aliso Vieja

Project Manager: Jeff Lee

Project: Holland Boomers

Project Number: 2047.28

Analysis	Due	TAT	Expires	Comments
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T241341-08 B19-3 [Soil] Sampled 03/25/24 15:32 (GMT-08:00) Pacific Time (US HOLD & [NO ANALYSES])				
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T241341-09 B19-5 [Soil] Sampled 03/25/24 15:34 (GMT-08:00) Pacific Time (US HOLD & [NO ANALYSES])				
---	--	--	--	--