

**APPENDIX A-F.4: PHASE II ENVIRONMENTAL SITE ASSESSMENT**

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## **PHASE II ENVIRONMENTAL SITE ASSESSMENT**

**3<sup>rd</sup> and Fairfax – 6300 to 6332 West 3<sup>rd</sup> Street**  
**Los Angeles, California**

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**Prepared For:**

**Wactor & Wick, LLP**  
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**Prepared By:**

**Northgate Environmental Management, Inc.**  
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**March 1, 2018**

**Project No. 2047.15.02S**

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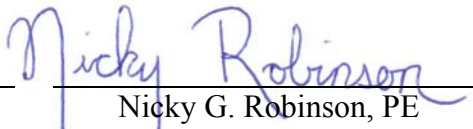
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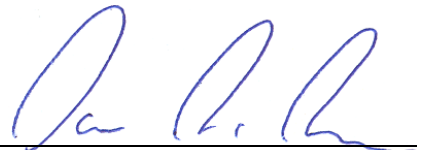
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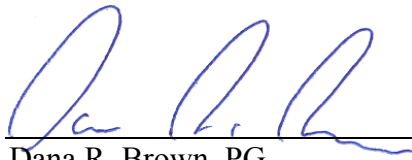
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## CERTIFICATION

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

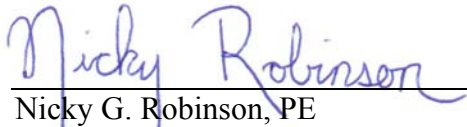


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## 1.0 INTRODUCTION

This report presents the results of a Phase II Environmental Site Assessment (ESA) performed by Northgate Environmental Management, Inc. (Northgate) for Wactor & Wick LLP (Wactor & Wick) on behalf of its client Holland Partner Group, at the 3<sup>rd</sup> and Fairfax property located at 6300 to 6332 West 3<sup>rd</sup> Street in Los Angeles, California (the Site). The Site consists of approximately 3.06 acres of land located southwest of the intersection of West 3<sup>rd</sup> Street and South Ogden Drive. The southern portion of the Site is developed with a commercial structure occupied by various retail stores and restaurants, and the northern portion of the Site consists of a paved parking lot. The Site comprises the eastern portions of Assessor's Parcel Numbers (APNs) 5509-018-003 and -009 in Los Angeles County. A Site Vicinity Map is shown on Figure 1 and a Site Plan is shown on Figure 2.

### 1.1 Objectives

The primary objective of the Phase II ESA was to assess the potential presence of soil, groundwater, and soil vapor quality impacts related to issues of environmental concern identified in a Phase I ESA prepared for the Site by Northgate dated January 30, 2018 (Northgate, 2018), and to present the data to allow the decision makers to understand the extent of contamination for excavation and disposal cost estimating.

### 1.2 Scope of Work

The scope of the Phase II work included the following:

- Site walk to mark the proposed boring locations, and notification to Underground Service Alert (USA) for underground utility clearance;
- Preparing a Site-specific Health and Safety Plan (HASP);
- Advancing 15 borings to depths of 25 to 30 feet below ground surface (bgs) for collecting soil samples at depths of 1', 5', 10', 15', 20', 25' and 30' bgs to provide adequate data density for accurately modeling the extent of soil contamination using the CTech EVS model and to determine presence and depth of groundwater;
- Selecting and analyzing three soil samples per boring (total of 45 soil samples) for total petroleum hydrocarbons as gasoline/carbon-chain (TPH-g/cc), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and polychlorinated biphenyls (PCBs), a total of 41 soil samples for Title 22 metals, a total of 15 soil samples for organochlorine pesticides (OCPs), and 15 samples for asbestos;
- Collecting and analyzing six groundwater samples for TPH and VOCs;



- Installing five temporary soil vapor sample probes at depths between 8 and 25 feet bgs for collecting and analyzing soil vapor samples for TPH and VOCs;
- Boring locations were selected based on the results of the Phase I ESA which located relevant former oil field improvements including an abandoned oil well, oil tanks and oilfield sumps, as well as adding additional borings to obtain data in other accessible portions of the Site. Note that no samples could be obtained beneath existing buildings, and therefore no data is available in these areas;
- Creating a three-dimensional model using the C Tech Development Corporation's Earth Volumetric Studio (EVS) V17.6 visualization package to estimate the TPH-d and TPHmo concentrations at cell center locations within a convex hull grid; and
- Preparing this report.



## **2.0 BACKGROUND**

### **2.1 Site Description**

The Site consists of approximately 3.06-acres of land located at 6300 to 6332 West 3<sup>rd</sup> Street in the City of Los Angeles, California. The Site consists of two parcels identified as Assessor's Parcel Numbers (APN) 5509-018-003 and -009 in Los Angeles County. The Site is currently developed with a commercial structure on the southern portion of the Site that is occupied by various retail stores and restaurants, and a parking lot in the northern portion of the Site. 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 at the Site (Northgate, 2018) that indicates that the Site (primarily the northern portion of the Site) was originally developed as part of the Salt Lake Oil Fields from the early 1900's through the early 1930s. The Salt Lake Oil Field was a regional oil production area that operated through the early 1930s, prior to regional development for residential and commercial land use. One oil well was installed to an approximate depth of 2,909 feet bgs on the northeastern corner of the Site in 1906 and was abandoned in 1930. Three "sumps" (bermed ponds where oil field liquids are collected) were possibly present in the central portion of the Site during that time. The Site remained vacant land until the central portion of the Site was developed in 1948 with a commercial structure that extended onto the adjacent property to the west. The remainder of the Site was utilized for parking. In 1962, the Site was redeveloped into the current configuration with a multi-tenant commercial structure on the southern portion of the Site and parking on the northern portion. The Site is located within the Los Angeles designated Methane Zone.

### **2.3 Regional and Local Geology and Hydrology**

The Site is located in the northern portion of the Los Angeles Basin. The basin is bound by the Santa Monica Mountains to the northwest and by the Santa Ana Mountains and San Joaquin Hills to the east and southeast. Sediments of the Lakewood and San Pedro formations of Pleistocene age extend to a maximum depth of 650 feet bgs in the area. A geotechnical investigation performed at the Site in 2017 indicated that subsurface soil at the Site consisted primarily of clays and sandy clays to depths of approximately 18 feet bgs underlain by interbedded layers of silty sand and sandy clay (KAI, 2017).



The Site is located within the southwestern portion Hollywood Groundwater Basin. The Hollywood Piedmont Slope and part of the La Brea Plain overlay the Hollywood Basin. A shallow perched zone of groundwater has been reported in the Site vicinity. The Exposition Aquifer, the first major aquifer beneath the Site, is present at about 120 feet bgs. Additional deeper aquifers beneath the Site include the Gardena/Gage, Lynwood, Silverado, and Sunnyside Aquifers (BEC, 2015).

Groundwater information collected in the Site vicinity by others indicates that groundwater has historically been encountered at depths between 20 and 30 feet bgs. Groundwater monitoring data from nearby sites indicates the groundwater flow direction has variably been directed towards the northwest (TRG, 2013) and the southwest (BEC, 2015). A geotechnical investigation performed at the Site in 2017 encountered groundwater at depths of approximately 18 feet bgs (KAI, 2017). Based on general topography and the regional groundwater flow direction, it is Northgate's opinion that groundwater flow at the Site is likely directed generally towards the southwest. However, dewatering or other pumping activities in the area can influence groundwater flow direction at properties that report groundwater flow directed towards the northwest.



### **3.0 INVESTIGATION METHODS**

Northgate conducted soil, groundwater, and soil vapor sampling at the Site between January 29 and 31, 2018. Sampling locations are shown on Figure 4. Field investigation procedures are summarized in Appendix A.

#### **3.1 Pre-Field Activities**

Before sampling activities began, Northgate met with Mr. Dan Austin, the property manager for Town and Country Shopping Center and conducted a walk-through 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 prepared a Site-specific HASP for the Phase II ESA. The HASP 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***

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 Goldak, Incorporated, an independent geophysical utility locating company, to identify underground utilities and other subsurface obstructions so that the sampling locations were “clear” of any subgrade features.

#### **3.2 Soil Sampling and Analysis**

Fifteen borings (B-1 through B-15) were advanced across the Site as shown on Figure 3, and as described below. In general the borings were advanced to a depth of 30 feet bgs with samples collected at 1, 5, 10, 15, 20, 25, and 30 feet bgs for logging, screening and selection of samples for analysis. The samples collected at 1, 10, and 20 feet bgs were analyzed for TPH, VOCs, SVOCs, Title 22 metals, and PCBs. The samples collected at 1 foot bgs were also analyzed for OCPs and asbestos.

- Boring B-1 was advanced in the northwestern corner of the Site in the location of a historic oil field sump.





- Boring B-2 was advanced in the northwestern corner of the Site in the location of a historic oil field aboveground storage tank (AST).
- Boring B-3 was advanced in the northern portion of the Site in the location of a historic oil field sump.
- Boring B-4 was advanced in the northeastern portion of the Site in the location of a historic oil field tank and in the vicinity of the abandoned historic oil well. In addition to testing the 1, 10 and 20' bgs samples, the sample collected at 15 feet bgs was analyzed for TPH and VOCs based on field indicators described in the boring logs.
- Boring B-5 was advanced in the central portion of the Site north of a historic oil field sump. This boring had to be relocated north of the historic sump based on building and utility locations.
- Boring B-6 was advanced in the southern portion of the Site south of the location of a historic oil field process tanks.
- Borings B-7 through B-15 were advanced in the parking lot area next to the buildings in order to obtain representative soil quality data. Borings B-7, B-8, and B-11 through B-15 were located in the northern parking lots areas and borings B-9 and B-10 were located in the southern parking lot and alley portion of the Site. Samples from boring B-15 were not analyzed for Title 22 metals. In addition to testing the 1, 10 and 20' bgs samples, the sample collected at 15 feet bgs in Borings B-8 and B-13 were analyzed for TPH and VOCs based on field indicators described in the boring logs. No sample was collected at 20 feet in B-13 as perched groundwater was encountered at 19.5 feet bgs.

All borings were advanced by BC2 Environmental of Orange, California, using a track-mounted Geoprobe rig. During 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 B.

Soil samples were collected from the borings at approximate 5-foot intervals. Sample intervals selected for non-volatile chemical analysis were cut from the liners, sealed with Teflon tape and plastic caps, labeled, and stored on ice in a cooler for transport to the testing laboratory under chain-of-custody control. Samples collected for TPH-g and VOC analysis were collected using Lock<sup>n</sup>Load<sup>TM</sup> sampler and preserved in ethanol and sodium bisulfate in volatile organic analysis (VOA) vials in compliance with Environmental Protection Agency (EPA) Method 5035.



After the sampling was completed, the borings were backfilled with hydrated bentonite and a concrete plug was placed at the surface to match existing conditions. Soil sampling methodology is further described in Appendix A.

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 TPH-g/cc using EPA Method 8015M, VOCs using EPA Method 8260, Title 22 metals using EPA Method 6010B/7471, SVOCs using EPA Method 8270C, PCBs using EPA Method 8082, OCPs using EPA Method 8081. In addition, soil samples collected at the surface, to depths of approximately 1 foot bgs, were submitted to Patriot Environmental Laboratory Services, Inc., a California ELAP-certified laboratory in Fullerton, California, for analysis for asbestos using polarized light microscopy (PLM).

### **3.3 Groundwater Sampling**

Grab-groundwater samples were collected from borings B-2, B-3, B-4, B-11, B-13, and B-14, the only borings where groundwater was encountered, by lowering a disposable microbailer through a temporary well screen installed in the Geoprobe drive rods to the bottom of the boring. The borings were advanced to depths ranging between 25 and 30 feet bgs, respectively with groundwater encountered at a depths of approximately 19 to 23 feet bgs.

The groundwater sample locations are described below.

- B-2 was collected at a depth of 21.1 feet bgs in boring B-2 located in the northwestern corner of the Site in the location of a historic oil field AST;
- B-3 was collected at a depth of 23.3 feet bgs in boring B-3 located in the northern portion of the Site in the location of a historic oil field sump;
- B-4 was collected at a depth of 22.5 feet bgs in boring B-4 located in the northeastern portion of the Site in the location of a historic oil field AST and in the vicinity of the abandoned historic oil well;
- B-11 was collected at a depth of 22.1 feet bgs in boring B-11 located in the northern parking lot to provide areal groundwater quality data;
- B-13 was collected at a depth of 19.65 feet bgs in boring B-13 located in the northern parking lot to provide areal groundwater quality data; and
- B-14 was collected at a depth of 20.6 feet bgs in boring B-14 located in the northern parking lots areas in order to provide areal groundwater quality data.



The samples were placed in laboratory-supplied sample bottles, stored on ice in a cooler, and transported to SunStar under chain-of-custody control for analysis for TPH-g/cc using EPA Method 8015M and for VOCs using EPA Method 8260B. Groundwater sampling methodology is further described in Appendix A.

### 3.4 Soil Vapor Survey

Temporary soil vapor probes (SVPs) were installed at five locations (Borings B-4, B-6, B-11, B-12, and B-15) across the Site as shown on Figure 4; however, soil vapor samples could not be collected from borings B-11 and B-12 due to lack of sufficient soil vapor flow. The SVPs were installed using 2-1/4 inch inside-diameter hollow drill rods. The probe consisted of a 3/8" x 1" Stone PolyPro vapor probe implant with 1/4-inch Speed Fit installed at 5 feet bgs. Nylaflo 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.

The SVP locations are described below.

- B-4-15.0 was installed at a depth of 15 feet bgs in boring B-4 located in the area of a historic oil field tank and in the vicinity of the abandoned historic oil well;
- B-6-10.0 was installed at a depth of 10 feet bgs in boring B-6 located in the area of a historic oil field process tanks;
- B-11-8.0 was installed at a depth of 8 feet bgs in boring B-11 located in the northern parking lots areas in order to obtain areal soil vapor quality data (no sample was able to be collected at this location);
- B-12-12.0 was installed at a depth of 12 feet bgs in boring B-12 located in the northern parking lots areas in order to obtain areal soil vapor quality data (no sample was able to be collected at this location); and
- B-15-25.0 was installed at a depth of 25 feet bgs in boring B-15 located in the northern parking lots areas in order to obtain areal soil vapor quality data.

After installation, each SVP was allowed to stabilize for two hours constructed in accordance with Department of Toxic Substances Control (DTSC) advisory for active soil gas investigations dated August, 2015 (DTSC, 2015)<sup>1</sup>. Prior to sampling, each probe was purged of approximately

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<sup>1</sup> DTSC, August, 2015. Advisory – Active Soil Gas Investigations.



three-well volumes of air. A vapor sample was then collected from each probe using a summa canister and flow regulator that maintained a flow rate of 150 milliliters per minute. There was insufficient airflow from SVPs installed in B-11 and B-12 so samples could not be collected. Each sample was transported to SunStar and analyzed for TPH-g using EPA Method TO-3, VOCs using EPA Method TO-15.

After the soil vapor survey was conducted, the SVPs were removed and the borings backfilled with hydrated bentonite to just below the surface and a concrete plug was placed at the surface to match existing conditions. Soil vapor sampling methodology is further described in Appendix A. Temporary vapor probe construction details are presented in Appendix C.

### **3.5 Data Evaluation Criteria**

Chemical test results from soil samples collected during this investigation were evaluated with respect to landfill disposal site acceptance criteria to determine whether the soil must be sent to Class I, II or III disposal facilities or could be used as unrestricted fill on any construction site in the area.

The groundwater sample test results are compared to the California Maximum Contaminant Levels (MCLs), the State primary drinking water standards and influent requirements for the [Los Angeles Regional Water Quality Control Board (LARWQCB) Order No. R4-2013-0098 General National Pollutant Discharge Elimination System (NPDES) Permit No. CAG994004 Waste Discharge Requirements for Discharges of Groundwater from Construction and Project Dewatering to Surface Water in Coastal Watersheds of Los Angeles and Ventura Counties (the NPDES Permit)].

Soil vapor sample test results are compared to EPA RSLs and DTSC SLs for residential and commercial land use. The RSLs and SLs have been developed for indoor air concentrations; therefore, RSLs and SLs for soil vapor were calculated using an attenuation factor. A non-Site specific, conservative attenuation factor of 0.002 was applied to the RSLs and SLs for indoor residential indoor air, and a conservative attenuation factor of 0.001 was applied to the RSLs and SLs for commercial indoor air to develop calculated SLs for soil vapor. The attenuation factors were derived from the DTSC *Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)* (DTSC, 2001). The purpose of this evaluation was to gain information about possible soil and groundwater contamination in the soil volume planned for excavation which was not reflected in the limited number of soil and groundwater samples collected.



## **4.0 INVESTIGATION RESULTS**

### **4.1 Subsurface Conditions**

All drilling locations were covered with approximately four to eight inches of asphalt. Subsurface soils encountered during drilling generally consisted of sand, silty sand, and clayey sand to approximately 5 feet bgs underlain by discontinuous interbedded sandy clayey silts and clayey silty sands to approximately 30 feet bgs, the total depth explored. Groundwater was encountered in only six of the 15 borings and was found to be located in the central portion of the parking lot, at depths ranging between approximately 19 and 23 feet bgs. The estimated lateral extent is shown on Figure 4; however, there may be other areas on the site where localized groundwater may be encountered. Boring logs are attached in Appendix B.

### **4.2 Analytical Results**

Chemical test results for soil samples analyzed during this investigation are presented on Tables 1 (TPH), 2 (VOCs, SVOCs, PCBs, OCPs, and Asbestos ), and 3 (Title 22 metals). The sampling shows that the most pervasive compounds of concern present in the subsurface are total petroleum hydrocarbons in two middle carbon ranges, C13-C28 (TPH-d) and C29-C40 (TPH-mo). Subject to site access limitations, this impacted soil is generally located in the northwestern portion of the parking lot (vicinity of borings B-2, B-11 and B-13) and the northeastern portion of the parking lot (vicinity of borings B-4, B-12, and B-15). No other compounds of concern were detected in soil, soil vapor or groundwater, other than relatively low concentrations of the chlorinated solvent TCE in two soil vapor samples that are coterminous with borings showing TPH soil contamination.

Groundwater sample test results are presented on Table 4 and soil vapor sample test results are presented on Table 5. Copies of the laboratory analytical reports are presented in Appendix D. Test results are discussed in detail the following sections.

#### ***4.2.1 Soil Sampling Analytical Results***

As shown on Table 1, total petroleum hydrocarbons as diesel (TPH-d) were reported above laboratory reporting limits (RLs) in 28 of the 47 samples analyzed, at concentrations up to 1,100 mg/kg. TPH-d was measured in soil above the groundwater protection RWQCB TPH Maximum SSL of 100 milligrams per kilogram (mg/kg) and the EPA RSL for residential land use of 110 mg/kg in 10 samples at concentrations ranging between 160 and 1,100 mg/kg. These elevated concentrations were generally reported in samples collected at 1 foot bgs in the northeastern and northwestern portions of the Site. However, the highest concentration



(1,100 mg/kg) was reported at a depth of 15 feet bgs from boring B-4, which is located in the eastern portion of that parking lot-part of the Site at one of the historic oil field tanks and in the vicinity of the abandoned historic oil well. The approximate lateral extent of TPH-d impacted soil is shown on Figures 5a (one foot bgs), 5b (five feet bgs), 5c (10 feet bgs), and 5d (15 feet bgs). Soil exceeding 100 mg/kg TPH-d would typically be sent to a Class III landfill or recycling facility for disposal purposes and would not be used for unrestricted fill.

Total petroleum hydrocarbons as motor oil (TPH-mo) were reported in 24 of the 47 samples analyzed, at detected concentrations ranging from 20 to 1,300 mg/kg. The TPH-mo detections were found primarily at the same sample locations with reported concentrations of TPH-d. Reported concentrations of TPH-mo exceeded the groundwater protection RWQCB TPH-mo Maximum SSL of 1,000 mg/kg in five soil samples, at concentrations up to 1,300 mg/kg. Four of the exceedances were measured in shallow soil samples collected at one foot bgs and one was collected at a depth of 15 feet bgs from boring B-4. None of the samples collected at 10 feet bgs contained TPH-mo above the SSL of 1,000 mg/kg. The reported concentrations of TPH-mo did not exceed the EPA soil RSLs for residential or commercial land use. The approximate lateral extent of TPH-mo impacted soil is shown on Figures 6. Soil exceeding 1,000 mg/kg would typically be sent to a Class III landfill or recycling facility for disposal purposes and would not be used for unrestricted fill.

Low concentrations of total petroleum hydrocarbons as gasoline (TPH-g) were measured in B-5 at 10 feet bgs, B-8 at 10 feet bgs, B-11 at 10 feet bgs, and B-12 at 1 foot bgs; however, the reported concentrations did not exceed any regulatory screening criteria.

As shown on Table 2, several gasoline-related VOCs, including benzene, ethylbenzene, toluene, m,p-xylene, and sec-butylbenzene, were measured above the laboratory RLs. However, none of these reported concentrations exceeded their respective regulatory screening criteria. No SVOCs, PCBs, OCPs, or asbestos were reported above their respective laboratory RLs in any of the samples analyzed.

Low concentrations of several metals, including barium, chromium, cobalt, copper, nickel, vanadium, and zinc were reported in all of the 47 samples analyzed, as shown on Table 3. In addition, cadmium was measured above the laboratory RL in one sample. None of the reported concentrations of metals exceeded their respective EPA RSLs or DTSC SLs for residential or commercial/industrial land use.



#### ***4.2.2 Groundwater Sampling Analytical Results***

Groundwater sample test results are shown on Table 4 and on Figure 7. TPH-d (carbon range C13 – C28) was the only TPH range contaminant reported in groundwater and was found in five of the six groundwater samples collected, at concentrations ranging between 520 and 2,000 µg/L. Although there is no California MCL for TPH-d, the reported concentrations of TPH-d exceed the EPA RSL for tapwater of 5.5 µg/L and the RWQCB NPDES discharge level of 100 µg/L.

With the exception of a concentration of 0.92 µg/L of toluene found only in Boring B-2, no VOCs were measured in any of the groundwater samples. The reported concentration of toluene is well below the California MCL of 1,000 µg/L.

The groundwater samples collected from borings B-2 and B-3 were also tested for dissolved metals. None of the reported concentrations of metals exceeded their respective California MCLs. The test results are shown on Table 4.

#### ***4.2.3 Soil Vapor Analytical Results***

Soil vapor samples were collected from SVPs set in borings B-4, B-6, and B-15. Soil vapor samples could not be collected from SVPs set in borings B-11 and B-12 due to lack of flow. As shown on Table 5, TPH-g was reported in soil vapor from boring B-4 at a concentration of 11,600 micrograms per cubic meter (µg/m<sup>3</sup>). The reported concentration did not exceed the calculated residential soil vapor RSL of 15,500 µg/m<sup>3</sup> or the calculated commercial soil vapor RSL of 130,000 µg/m<sup>3</sup>. No residential or commercial SLs have been established for TPH-g. This TPH-g soil vapor detection indicates that there may have been a gasoline release in the area.

Trichloroethene (TCE) was reported in soil vapor in two wells, B-4 (at 15 feet bgs at 17 µg/m<sup>3</sup>) and B-15 (at 15 feet at 770 µg/m<sup>3</sup>). The reported concentration from B-15 exceeds the calculated EPA RSL for residential land use of 240 µg/m<sup>3</sup>. Both B-4 and B-15 also showed TPH-d and TPH-mo and benzene soil contaminants.

Toluene was reported in soil vapor from boring B-4 at a concentration of 15 µg/m<sup>3</sup>, which does not exceed the calculated residential or commercial soil vapor RSLs or SLs. Cyclohexane (another gasoline constituent) was reported at a concentration of 1,100 µg/m<sup>3</sup> in the sample from boring B-6. The result is well below the calculated residential RSL of 3,100,000 µg/m<sup>3</sup>.





Isopropyl alcohol (IPA) was also measured in soil vapor from boring B-6 at a concentration of  $3,100 \mu\text{g}/\text{m}^3$ , which is well below the calculated residential RSL of  $105,000 \mu\text{g}/\text{m}^3$  and commercial RSL of  $880,000 \mu\text{g}/\text{m}^3$ . Notably, because IPA was used as a leak detection compound during sampling, the detected IPA may be attributed to a faulty seal in the probe or dedicated sampling apparatus associated with the probe in B-6 only and is not derived from an on-site source.





## 5.0 THREE-DIMENSIONAL PLUME MODEL

Northgate calculated the approximate volume of soil beneath the Site that might require special handling or disposal during excavation activities due to the presence of contaminants reported in the subsurface soil. Testing performed at the Site during this investigation indicates that the most pervasive organic compounds present in the subsurface are total petroleum hydrocarbons in two carbon ranges, C13-C28 (TPH-d) and C29-C40 (TPH-mo). Model results are shown on Figures 5, 6, and 8-11.

### 5.1 Model Input Information & Assumptions

Fifteen borings were advanced to total depths of 20 to 30 feet bgs. As described in Section 3.2, soils samples were collected for chemical analysis at 1, 10, and 20 foot-foot depth intervals (with additional 15-foot intervals at certain locations based on field indicators). Figure 3 shows the locations of the borings on the site. The following data was input into the model:

- The surface coordinates of the 15 borings (all samples were assumed to be collected at the same x and y coordinates of the surface location);
- The depth below ground surface that the soil samples were collected;
- The concentration of TPH-d and TPH-mo in those samples;
- A proposed maximum depth of excavation of 18 feet bgs during construction;
- The geometry of the basement beneath the K-Mart store;
- The total soil volume to be excavated as part of site redevelopment is 55,000 cubic yards based on building excavation plans;
- The areal extent of the Site was based on a Google Earth™ image and assumes the Site is flat with no relief.
- The volume of the K-mart basement to be subtracted from the gross Site volume to 18 feet bgs was based on the building image from Google Earth™.
- There are 47 discrete analyses for each of the chemicals evaluated.

From this information, a three-dimensional model was created using the C Tech Development Corporation's Earth Volumetric Studio (EVS) V17.6 visualization package to estimate the TPH-d and TPH-mo concentrations at cell center locations within a convex hull grid. A convex hull generated grid system with a nominal spacing of approximately 1.4 and 2.0 feet in the x and y directions respectively and proportional gridding in the z direction of from 0.2 feet to 0.6 in the z direction was established as the estimation grid. The ground surface, the proposed bottom of the



excavation (18 ft bgs) and the basement configuration of the K-Mart were used as constraining boundaries for the model.

The model application applies estimation techniques by using analytical data results of TPH concentrations from soil samples collected at known x, y and z coordinates in boreholes to calculate the TPH concentrations at grid locations without direct analytical results. The volume of soil impacted with TPH concentrations above 100 mg/kg (for diesel), or 1,000 mg/kg (motor oil) is then calculated spatially by summing the volume of each grid cell that contains soil with estimated concentrations above 100 mg/kg or 1,000 mg/kg, as applicable.

## 5.2 Plume Depictions and Volumetric Results

Plume models were generated for two scenarios for each of the TPH constituents described, creating four plume models:

- A plume of the estimated volume of TPH-d at greater than 100 mg/kg (Figures 8a and 8b).
- A plume of the estimated volume of TPH-mo greater than 1,000 mg/kg (Figure 9a and 9b).
- A plume showing the estimated volume of TPH-d greater than the laboratory reporting limit of 10 mg/kg (Figures 10a and 10 b).
- A plume showing the estimated volume of TPH-mo greater than the laboratory reporting limit of 10 mg/kg (Figures 11a and 11b).

Figures 5a, 5b, and 5c show a horizontal slice through the estimated TPH-d 1,000 mg/kg plume at the ground surface (samples collected at 1-foot bgs), 5 feet bgs, and 10 feet bgs, respectively.

Figure 6 shows a horizontal slice through the plume at the ground surface of the TPHmo 1,000 mg/kg plume.

The Figure 8 and 9 series views are from the northeast looking southwest as the volume of contaminated soil is greatest on the northern portion of the Site. The Figure 10 and 11 series views are shown from the southwest looking northeast as the estimation of the low concentration plumes are relatively pervasive across the Site. Figures 8 through Figure 10 all have a two times vertical exaggeration to assist in visualization.

The volume of impacted soil in the each of the estimated plumes was calculated by the model using the volumetric tool in the EVS application. The table below provides the results of that calculation.



<b>Plume</b>	<b>Estimated Volume of Impacted Soil in cu yd</b>
TPH-d plume equal to or greater than 100 mg/kg	5,526 yd <sup>3</sup>
TPH-mo plume equal to or greater than 1000 mg/kg	69 yd <sup>3</sup>
TPH-d plume equal to or greater than 10 mg/kg	43,641 yd <sup>3</sup>
TPH-mo plume equal to or greater than 10 mg/kg	47,006 yd <sup>3</sup>

Notably, the estimated confidence at the lower concentrations approaching (10 mg/kg) decreases fairly rapidly because the lowest values included in the dataset are very close to the 10 mg/kg value, which creates a significant upward bias (overestimation) of the volume estimation at or near the 10 mg/kg estimated concentration.



## **6.0 CONCLUSIONS AND RECOMMENDATIONS**

This investigation included the analysis of 47 soil samples, five groundwater samples, and three soil vapor samples, collected from 15 borings and three soil vapor probes advanced in areas of the former oilfield production facilities that included storage tanks and sumps and a former oil and gas well, and in other areas to provide spatial coverage. Conclusions regarding subsurface conditions based on the chemical test results are presented below.

### **6.1 Soil**

Petroleum hydrocarbons, primarily TPH-d, were detected above screening levels for residential and commercial land use in the soil at certain areas of the Site. Impacted soil above RWQCB TPH Maximum SSLs and EPA RSLs for residential and commercial land use was determined to be located primarily in the northeastern and northwestern portion of the Site. The impacts were primarily encountered in the very shallow soils, but extended to 15 feet bgs in three areas located in the north central part of the Site near the former oil well complex.

Based on the analytical data used in the model (not considering SCAQMD Rule 1166 – as discussed below), approximately 5,500 cubic yards (which is ten percent (10%) of the 55,000 cubic yards of soil extending from the ground surface down to the proposed construction excavation depth of 18 feet), would need to be disposed of or sent to a soil recycling facility as TPH contaminated soil. The model further estimates that the remaining 90% of soil (approximately 50,000 yards) of the excavated volume of soil would not need to be disposed of as TPH contaminated soil because the TPH concentrations in that volume are likely below RWQCB SSLs.

The 5,500 yards of TPH-impacted soil excavated during construction must be either disposed of at a licensed Class III disposal facility, at a licensed soil recycling or disposal facility permitted to accept such soil, or treated on-site in a licensed treatment process, or be used as landfill cover at a licensed facility.

#### **6.1.1 SCAQMD Rule 1166**

The excavation or grading of soil at a site containing VOC material including gasoline, diesel, crude oil, lubricant, waste oil, adhesive, paint, stain, solvent, resin, monomer, and/or any other material containing VOCs is subject to Rule 1166, and would require a mitigation plan (“1166 permit”). Such a plan would require segregation of the soil during excavation based on the soil analytical data, and field vapor readings generated by a properly calibrated photo ionization detector (“PID”) conducted during excavation, compliance with South Coast Air



Quality Management District (SCAQMD) VOC emissions mitigation requirements, and soil management and health and safety plans to ensure worker health and safety. Soil that shows vapors exceeding 50 ppm on the PID will need to properly disposed of or treated off-site, as required by Rule 1166. Based on experience at other sites, the 1166 requirement could increase the volume of contaminated soil above the estimated 5,500 cubic yards estimated by the model. However, the probability of a significant increase above 5,500 yards may be mitigated by the minimally volatile nature of the TPH detected at the Site.

## **6.2 Groundwater**

The perched groundwater beneath the Site is impacted with TPH-d. Given that groundwater is encountered at depths at about 20 feet bgs or deeper and excavation for the proposed development does not exceed 18 feet bgs, it is not anticipated that groundwater will be encountered during redevelopment. However, if groundwater is encountered and must be disposed of, then treatment will be required prior to discharge to the storm drain or the sanitary sewer.

## **6.3 Soil Vapor**

TCE was reported in soil vapor in two samples collected from the northeastern portion of the Site in an area showing soil contamination exceeding unrestricted use levels. No source for the TCE was found in soil or groundwater. No other VOCs or TPH-g were detected above regulatory screening criteria in any of the three soil vapor samples collected during the investigation.

Because the Site is located within the Los Angeles designated Methane Zone, methane mitigation in compliance with parameters of the Los Angeles Department of Building and Safety will be required, which if properly designed, can be protective of human health and safety by mitigating any potential vapor intrusion and human health risks related to impacted groundwater or off-gassing from any impacted soil located below the total excavation depth.



## 7.0 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.



## 8.0 REFERENCES

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- Regional Water Quality Control Board (RWQCB), 1996. *Interim Site Assessment & Cleanup Guidebook.* May.
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## TABLES





**TABLE 1**  
**Summary of Soil Analytical Results - Total Petroleum Hydrocarbons**

			Total Petroleum Hydrocarbons EPA Method 8015B		
Sample Identification	Sample Top (Feet bgs)	Date Sampled	C6-C12 (TPH-g)	C13-C28 (TPH-d)	C29-C40 (TPH-mo)
			mg/kg	mg/kg	mg/kg
B-1-1.0	1	1/29/2018	<0.350	87	920
B-1- 10.0	10	1/29/2018	<0.430	17	<10
B-1- 20.0	20	1/29/2018	<0.290	<10	<10
B-2- 1.0	1	1/29/2018	<0.380	<b>260</b>	860
B-2- 10.0	10	1/29/2018	<0.350	<10	<10
B-2- 20.0	20	1/29/2018	<0.410	11	<10
B-3-1.0	1	1/30/2018	<0.350	33	180
B-3-10.0	10	1/30/2018	<0.350	18	<10
B-3-20.0	20	1/30/2018	<0.390	14	<10
B- 4-1.0	1	1/31/2018	<0.400	<b>210</b>	<b>1,300</b>
B- 4-10.0	10	1/31/2018	<0.500	<10	<10
B- 4-15.0	15	1/31/2018	<0.400	<b>1,100</b>	<b>1,000</b>
B- 4-20.0	20	1/31/2018	<0.330	31	42
B-5-1.0	1	1/30/2018	<0.330	81	280
B-5-10.0	10	1/30/2018	0.380	68	65
B-5-20.0	20	1/30/2018	<0.360	<10	<10
B-6- 1.0	1	1/29/2018	<0.320	<b>160</b>	<b>1,000</b>
B-6- 10.0	10	1/29/2018	<0.380	<10	<10
B-6- 20.0	20	1/29/2018	<0.330	<10	<10
B-7-1.0	1	1/30/2018	<10	<10	67
B-7-10.0	10	1/30/2018	<10	<10	<10
B-7-20.0	20	1/30/2018	<10	<10	<10
B- 8-1.0	1	1/31/2018	<10	35	120
B- 8-10.0	10	1/31/2018	21	<b>180</b>	150
B- 8-15.0	15	1/31/2018	<10	46	48
B- 8-20.0	20	1/31/2018	<10	<10	<10
B-9-1.0	1	1/30/2018	<10	<10	110
B-9-10.0	10	1/30/2018	<10	<10	<10
B-9-20.0	20	1/30/2018	<10	31	20
B- 10-1.0	1	1/31/2018	<0.370	<10	63
B- 10-10.0	10	1/31/2018	<0.420	<10	<10
B- 10-20.0	20	1/31/2018	<0.440	25	11
B-11- 1.0	1	1/29/2018	<0.320	<b>180</b>	<b>1,100</b>
B-11- 10.0	10	1/29/2018	0.500	<b>770</b>	780
B-11- 20.0	20	1/29/2018	<0.340	<10	<10

**TABLE 1**  
**Summary of Soil Analytical Results - Total Petroleum Hydrocarbons**

			Total Petroleum Hydrocarbons EPA Method 8015B		
Sample Identification	Sample Top (Feet bgs)	Date Sampled	C6-C12 (TPH-g)	C13-C28 (TPH-d)	C29-C40 (TPH-mo)
			mg/kg	mg/kg	mg/kg
B- 12-1.0	1	1/31/2018	23	<b>260</b>	950
B- 12-10.0	10	1/31/2018	<10	46	<10
B- 12-20.0	20	1/31/2018	<10	<10	<10
B-13-1.0	1	1/30/2018	<0.320	<b>250</b>	890
B-13-10.0	10	1/30/2018	<0.390	22	<10
B-13-15.0	15	1/30/2018	<0.350	15	<10
B-14-1.0	1	1/30/2018	<0.340	<10	49
B-14-10.0	10	1/30/2018	<0.500	24	110
B-14-20.0	20	1/30/2018	<0.640	<10	<10
B- 15-1.0	1	1/31/2018	<0.370	<b>490</b>	<b>1,200</b>
B- 15-10.0	10	1/31/2018	<0.430	47	<10
B- 15-20.0	20	1/31/2018	<0.360	<10	<10
REGULATORY SCREENING CRITERIA					
RWQCB TPH Max SSL <20 feet Above Groundwater			100	100	1,000
EPA Residential Soil RSLs			82	110	2,500
EPA Commercial Soil RSLs			420	600	33,000
DTSC Residential Soil SLs (cancer endpoint)			NE	NE	NE
DTSC Commercial Soil SLs (cancer endpoint)			NE	NE	NE

**Notes/Abbreviations:**

<	Not detected at or above the indicated laboratory method reporting limit
--	Not tested
<b>Bold</b>	Detected above one or more regulatory screening levels
bgs	Below ground surface
DTSC	Department of Toxic Substance Control
EPA	United States Environmental Protection Agency
mg/kg	Milligrams per kilogram (units)
NA	Not available
ND	Not detected
NE	Not established
RSL	EPA Region 9 Regional Screening Level, updated November 2017
RWQCB	Regional Water Quality Control Board - Los Angeles Region
SL	Screening levels, updated January 2018
SSL	RWQCB Maximum Soil Screening Levels - Distance to groundwaterless 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

**TABLE 2**  
**Summary of Soil Analytical Results - Volatile Organic Compounds,**  
**Semi-Volatile Organic Compounds, Polychlorinated Biphenyls,**  
**Organochlorine Pesticides, and Asbestos**

			Volatile Organic Compounds EPA Method 8260B						SVOCs EPA 8270C	PCBs EPA 8082	PLM EPA 8081A	Asbestos
Sample Identification	Sample Top (Feet bgs)	Date Sampled	Benzene	Ethylbenzene	m,p-Xylene	Toluene	sec-Butylbenzene	Other VOCs	SVOCs	PCBs	OCPs	Total Asbestos
			ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%
B-1-1.0	1	1/29/2018	<1.4	<1.4	<2.9	14	<1.4	ND	ND	ND	ND	ND
B-1- 10.0	10	1/29/2018	<1.7	<1.7	<3.3	<1.7	<1.7	ND	ND	ND	--	--
B-1- 20.0	20	1/29/2018	<1.5	<1.5	<3.1	<1.5	<1.5	ND	ND	ND	--	--
B-2- 1.0	1	1/29/2018	<1.5	<1.5	<3.1	<1.5	<1.5	ND	ND	ND	ND	ND
B-2- 10.0	10	1/29/2018	4.1	<1.6	<3.2	<1.6	<1.6	ND	ND	ND	--	--
B-2- 20.0	20	1/29/2018	<2.4	<2.4	<4.7	<2.4	<2.4	ND	ND	ND	--	--
B-3-1.0	1	1/30/2018	<1.7	<1.7	<3.5	<1.7	<1.7	ND	ND	ND	ND	ND
B-3-10.0	10	1/30/2018	2.2	<1.7	<3.5	<1.7	<1.7	ND	ND	ND	--	--
B-3-20.0	20	1/30/2018	7.6	<1.9	<3.8	2.3	<1.9	ND	ND	ND	--	--
B- 4-1.0	1	1/31/2018	<1.9	<1.9	<3.8	<1.9	<1.9	ND	ND	ND	ND	ND
B- 4-10.0	10	1/31/2018	3.2	<1.8	<3.5	<1.8	<1.8	ND	ND	ND	--	--
B- 4-15.0	15	1/31/2018	2.4	<2.2	<4.5	<2.2	<2.2	ND	ND	--	--	--
B- 4-20.0	20	1/31/2018	3.3	<1.7	<3.4	<1.7	<1.7	ND	ND	ND	--	--
B-5-1.0	1	1/30/2018	<1.7	<1.7	<3.3	<1.7	<1.7	ND	ND	ND	ND	ND
B-5-10.0	10	1/30/2018	3.6	<1.7	<3.5	<1.7	<1.7	ND	ND	ND	--	--
B-5-20.0	20	1/30/2018	<1.8	<1.8	<3.6	<1.8	<1.8	ND	ND	ND	--	--
B-6- 1.0	1	1/29/2018	<1.9	<1.9	<3.9	<1.9	<1.9	ND	ND	ND	ND	ND
B-6- 10.0	10	1/29/2018	<1.7	<1.7	<3.4	<1.7	<1.7	ND	ND	ND	--	--
B-6- 20.0	20	1/29/2018	<1.8	<1.8	<3.6	<1.8	<1.8	ND	ND	ND	--	--
B-7-1.0	1	1/30/2018	<1.9	<1.9	<3.8	<1.9	<1.9	ND	ND	ND	ND	ND
B-7-10.0	10	1/30/2018	<1.8	<1.8	<3.6	<1.8	<1.8	ND	ND	ND	--	--
B-7-20.0	20	1/30/2018	<2.9	<2.9	<5.8	<2.9	<2.9	ND	ND	ND	--	--
B- 8-1.0	1	1/31/2018	<1.9	<1.9	<3.8	<1.9	<1.9	ND	ND	ND	ND	ND
B- 8-10.0	10	1/31/2018	<1.8	<1.8	<3.6	<1.8	2.0	ND	ND	ND	--	--
B- 8-15.0	15	1/31/2018	<1.8	<1.8	<3.6	<1.8	5.8	ND	ND	--	--	--
B- 8-20.0	20	1/31/2018	3.2	<1.8	<3.7	<1.8	<1.8	ND	ND	ND	--	--
B-9-1.0	1	1/30/2018	<2.0	<2.0	<4.1	<2.0	<2.0	ND	ND	ND	ND	ND
B-9-10.0	10	1/30/2018	<1.9	<1.9	<3.8	<1.9	<1.9	ND	ND	ND	--	--
B-9-20.0	20	1/30/2018	<2.0	<2.0	<4.0	<2.0	<2.0	ND	ND	ND	--	--
B- 10-1.0	1	1/31/2018	<1.9	<1.9	<3.8	<1.9	<1.9	ND	ND	ND	ND	ND
B- 10-10.0	10	1/31/2018	1.7	<1.7	<3.4	<1.7	<1.7	ND	ND	ND	--	--
B- 10-20.0	20	1/31/2018	1.9	<1.7	<3.5	<1.7	<1.7	ND	ND	ND	--	--
B-11- 1.0	1	1/29/2018	<1.8	2.1	4.6	<1.8	<1.8	ND	ND	ND	ND	ND
B-11- 10.0	10	1/29/2018	<1.8	<1.8	<3.6	<1.8	<1.8	ND	ND	ND	--	--
B-11- 20.0	20	1/29/2018	2.1	<1.7	<3.3	<1.7	<1.7	ND	ND	ND	--	--
B- 12-1.0	1	1/31/2018	<1.9	<1.9	<3.8	<1.9	<1.9	ND	ND	ND	ND	ND
B- 12-10.0	10	1/31/2018	<1.7	<1.7	<3.4	<1.7	<1.7	ND	ND	ND	--	--
B- 12-20.0	20	1/31/2018	<1.8	<1.8	<3.6	<1.8	<1.8	ND	ND	ND	--	--
B-13-1.0	1	1/30/2018	<1.7	<1.7	<3.4	<1.7	<1.7	ND	ND	ND	ND	ND
B-13-10.0	10	1/30/2018	2.4	<2.1	<4.2	<2.1	<2.1	ND	ND	ND	--	--
B-13-15.0	15	1/30/2018	4.4	<1.7	<3.4	<1.7	<1.7	ND	ND	ND	--	--
B-14-1.0	1	1/30/2018	<1.6	<1.6	<3.3	<1.6	<1.6	ND	ND	ND	ND	ND
B-14-10.0	10	1/30/2018	<2.1	<2.1	<4.3	<2.1	<2.1	ND	ND	ND	--	--
B-14-20.0	20	1/30/2018	<2.0	<2.0	<4.0	<2.0	<2.0	ND	ND	ND	--	--
B- 15-1.0	1	1/31/2018	<1.8	<1.8	<3.7	<1.8	<1.8	ND	ND	ND	ND	ND
B- 15-10.0	10	1/31/2018	2.1	<1.9	<3.8	<1.9	<1.9	ND	ND	ND	--	--
B- 15-20.0	20	1/31/2018	<2.6	<2.6	<5.2	<2.6	<2.6	ND	ND	ND	--	--

**TABLE 2**  
**Summary of Soil Analytical Results - Volatile Organic Compounds,  
Semi-Volatile Organic Compounds, Polychlorinated Biphenyls,  
Organochlorine Pesticides, and Asbestos**

			Volatile Organic Compounds EPA Method 8260B					SVOCs EPA 8270C	PCBs EPA 8082	PLM EPA 8081A	Asbestos	
Sample Identification	Sample Top (Feet bgs)	Date Sampled	Benzene	Ethylbenzene	m,p-Xylene	Toluene	sec-Butylbenzene	Other VOCs	SVOCs	PCBs	OCPs	Total Asbestos
			ug/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
REGULATORY SCREENING CRITERIA												
RWQCB TPH Maximum SSLs for Sample Top at 1 Foot bgs			14	1,953	4,883	419	NE	NA	NA	NA	NA	NA
RWQCB TPH Maximum SSLs for Sample Top at 10 Foot bgs			9	1,260	3,150	270	NE	NA	NA	NA	NA	NA
RWQCB TPH Maximum SSLs for Sample Top at 15 Foot bgs			9	1,260	3,150	270	NE	NA	NA	NA	NA	NA
RWQCB TPH Maximum SSLs for Sample Top at 20 Foot bgs			9	1,260	3,150	270	NE	NA	NA	NA	NA	NA
EPA Residential Soil RSLs			1,200	5,800	550,000	4,900,000	7,800,000	NA	NA	NA	NA	NA
EPA Commercial Soil RSLs			5,100	25,000	2,400,000	47,000,000	120,000,000	NA	NA	NA	NA	NA
DTSC Residential Soil SLs (cancer endpoint)			330	NE	NE	1,100,000*	2,200,000*	NA	NA	NA	NA	NA
DTSC Commercial Soil SLs (cancer endpoint)			1,400	NE	NE	5,400,000*	12,000,000*	NA	NA	NA	NA	NA

**Notes/Abbreviations:**

<	Not detected at or above the indicated laboratory method reporting limit
--	Not tested
*	Noncancer endpoint value used as cancer endpoint value was not established
bgs	Below ground surface
<b>Bold</b>	Detected above one or more regulatory screening levels
DTSC	Department of Toxic Substance Control
EPA	United States Environmental Protection Agency
NA	Not available
ND	Not detected
NE	Not established
OCPs	Organochlorine pesticides
PCBs	Polychlorinated biphenyls
PLM	Polarized light microscopy
RSL	EPA Region 9 Regional Screening Level, updated November 2017
RWQCB	Regional Water Quality Control Board - Los Angeles Region
SL	Screening levels, updated January 2018
SSL	RWQCB Maximum Soil Screening Levels - Distance to groundwater less than 20 feet, Interim Site Assessment Cleanup Guidance, May 1996.
SVOCs	Semi-volatile organic compounds
TPH	Total petroleum hydrocarbons
ug/kg	Micrograms per kilogram (units)
VOCs	Volatile organic compounds

**TABLE 3**  
**Summary of Soil Analytical Results - Title 22 Metals**

			Title 22 Metals EPA Method 6010B																	Mercury EPA 7471A
Sample Identification	Sample Top (Feet bgs)	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury	
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
B-1-1.0	1	1/29/2018	<3.0	<5.0	110	<1.0	<2.0	26	13	9.8	<3.0	<5.0	16	<5.0	<2.0	<2.0	46	51	<0.1	
B-1- 10.0	10	1/29/2018	<3.0	<5.0	46	<1.0	<2.0	22	12	11	<3.0	<5.0	23	<5.0	<2.0	<2.0	36	36	<0.1	
B-1- 20.0	20	1/29/2018	<3.0	<5.0	47	<1.0	<2.0	17	6.7	5.4	<3.0	<5.0	11	<5.0	<2.0	<2.0	19	16	<0.1	
B-2- 1.0	1	1/29/2018	<3.0	<5.0	56	<1.0	<2.0	22	12	5.0	<3.0	<5.0	13	<5.0	<2.0	<2.0	39	32	<0.1	
B-2- 10.0	10	1/29/2018	<3.0	<5.0	54	<1.0	<2.0	23	12	9.3	<3.0	<5.0	19	<5.0	<2.0	<2.0	26	33	<0.1	
B-2- 20.0	20	1/29/2018	<3.0	<5.0	91	<1.0	<2.0	35	17	15	<3.0	<5.0	26	<5.0	<2.0	<2.0	34	37	<0.1	
B-3-1.0	1	1/30/2018	<3.0	<5.0	79	<1.0	<2.0	15	9.6	8.5	<3.0	<5.0	9.3	<5.0	<2.0	<2.0	31	27	<0.1	
B-3-10.0	10	1/30/2018	<3.0	<5.0	60	<1.0	<2.0	22	11	8.0	<3.0	<5.0	21	<5.0	<2.0	<2.0	27	34	<0.1	
B-3-20.0	20	1/30/2018	<3.0	<5.0	39	<1.0	<2.0	18	8.9	8.1	<3.0	<5.0	16	<5.0	<2.0	<2.0	27	30	<0.1	
B- 4-1.0	1	1/31/2018	<3.0	<5.0	84	<1.0	<2.0	19	11	10	<3.0	<5.0	13	<5.0	<2.0	<2.0	36	46	<0.1	
B- 4-10.0	10	1/31/2018	<3.0	<5.0	39	<1.0	<2.0	19	9.0	7.3	<3.0	<5.0	15	<5.0	<2.0	<2.0	27	24	<0.1	
B-5-1.0	1	1/30/2018	<3.0	<5.0	110	<1.0	<2.0	19	11	9.2	<3.0	<5.0	13	<5.0	<2.0	<2.0	37	47	<0.1	
B-5-10.0	10	1/30/2018	<3.0	<5.0	76	<1.0	<2.0	17	9.4	8.2	<3.0	<5.0	17	<5.0	<2.0	<2.0	25	36	<0.1	
B-5-20.0	20	1/30/2018	<3.0	<5.0	35	<1.0	<2.0	16	7.2	7.2	<3.0	<5.0	12	<5.0	<2.0	<2.0	25	22	<0.1	
B-6- 1.0	1	1/29/2018	<3.0	<5.0	79	<1.0	<2.0	27	13	12	<3.0	<5.0	15	<5.0	<2.0	<2.0	55	55	<0.1	
B-6- 10.0	10	1/29/2018	<3.0	<5.0	71	<1.0	<2.0	19	9.1	15	<3.0	<5.0	20	<5.0	<2.0	<2.0	21	38	<0.1	
B-6- 20.0	20	1/29/2018	<3.0	<5.0	120	<1.0	<2.0	19	8.8	12	<3.0	<5.0	18	<5.0	<2.0	<2.0	31	35	<0.1	
B-7-1.0	1	1/30/2018	<3.0	<5.0	75	<1.0	<2.0	22	12	8.0	<3.0	<5.0	15	<5.0	<2.0	<2.0	42	45	<0.1	
B-7-10.0	10	1/30/2018	<3.0	<5.0	37	<1.0	<2.0	15	5.5	5.0	<3.0	<5.0	12	<5.0	<2.0	<2.0	20	17	<0.1	
B-7-20.0	20	1/30/2018	<3.0	<5.0	38	<1.0	<2.0	12	5.0	5.1	<3.0	<5.0	13	<5.0	<2.0	<2.0	14	11	<0.1	
B- 8-1.0	1	1/31/2018	<3.0	<5.0	92	<1.0	<2.0	20	9.5	8.5	<3.0	<5.0	14	<5.0	<2.0	<2.0	33	33	<0.1	
B- 8-10.0	10	1/31/2018	<3.0	<5.0	53	<1.0	<2.0	9.5	6.4	6.0	<3.0	<5.0	7.8	<5.0	<2.0	<2.0	21	20	<0.1	
B- 8-20.0	20	1/31/2018	<3.0	<5.0	140	<1.0	<2.0	30	12	15	<3.0	<5.0	21	<5.0	<2.0	<2.0	34	49	<0.1	
B-9-1.0	1	1/30/2018	<3.0	<5.0	83	<1.0	<2.0	6.5	6.2	16	<3.0	<5.0	6.1	<5.0	<2.0	<2.0	16	38	<0.1	
B-9-10.0	10	1/30/2018	<3.0	<5.0	55	<1.0	<2.0	19	8.3	11	<3.0	<5.0	18	<5.0	<2.0	<2.0	23	33	<0.1	
B-9-20.0	20	1/30/2018	<3.0	<5.0	79	<0.91	2.6	14	11	8.6	<2.7	<4.5	16	<4.5	<1.8	<1.8	19	28	<0.1	
B- 10-1.0	1	1/31/2018	<3.0	<5.0	86	<1.0	<2.0	19	10	9.6	<3.0	<5.0	12	<5.0	<2.0	<2.0	39	54	<0.1	
B- 10-10.0	10	1/31/2018	<3.0	<5.0	180	<1.0	<2.0	18	11	6.4	<3.0	<5.0	10	<5.0	<2.0	<2.0	41	56	<0.1	
B- 10-20.0	20	1/31/2018	<3.0	<5.0	35	<1.0	<2.0	11	6.6	7.5	<3.0	<5.0	9.7	<5.0	<2.0	<2.0	18	21	<0.1	
B-11- 1.0	1	1/29/2018	<3.0	<5.0	87	<1.0	<2.0	18	11	8.5	<3.0	<5.0	12	<5.0	<2.0	<2.0	36	35	<0.1	
B-11- 10.0	10	1/29/2018	<3.0	<5.0	73	<1.0	<2.0	26	23	12	<3.0	<5.0	29	<5.0	<2.0	<2.0	33	37	<0.1	
B-11- 20.0	20	1/29/2018	<3.0	<5.0	79	<1.0	<2.0	29	15	14	<3.0	<5.0	26	<5.0	<2.0	<2.0	52	47	<0.1	

TABLE 3  
Summary of Soil Analytical Results - Title 22 Metals

			Title 22 Metals EPA Method 6010B																	Mercury EPA 7471A
Sample Identification	Sample Top (Feet bgs)	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury	
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
B- 12-1.0	1	1/31/2018	<3.0	<5.0	91	<1.0	<2.0	18	9.6	11	<3.0	<5.0	14	<5.0	<2.0	<2.0	33	34	<0.1	
B- 12-10.0	10	1/31/2018	<3.0	<5.0	51	<1.0	<2.0	27	4.8	4.6	<3.0	<5.0	9.8	<5.0	<2.0	<2.0	22	20	<0.1	
B- 12-20.0	20	1/31/2018	<3.0	<5.0	81	<1.0	<2.0	18	14	13	<3.0	<5.0	15	<5.0	<2.0	<2.0	23	30	<0.1	
B-13-1.0	1	1/30/2018	<3.0	<5.0	64	<1.0	<2.0	20	12	6.6	<3.0	<5.0	13	<5.0	<2.0	<2.0	40	32	<0.1	
B-13-10.0	10	1/30/2018	<3.0	<5.0	58	<1.0	<2.0	19	11	10	<3.0	<5.0	20	<5.0	<2.0	<2.0	30	32	<0.1	
B-13-15.0	15	1/30/2018	<3.0	<5.0	370	<1.0	<2.0	18	19	11	<3.0	<5.0	28	<5.0	<2.0	<2.0	46	34	<0.1	
B-14-1.0	1	1/30/2018	<3.0	<5.0	78	<1.0	<2.0	28	15	6.1	<3.0	<5.0	18	<5.0	<2.0	<2.0	50	41	<0.1	
B-14-10.0	10	1/30/2018	<3.0	<5.0	39	<1.0	<2.0	19	8.3	7.3	<3.0	<5.0	18	<5.0	<2.0	<2.0	20	19	<0.1	
B-14-20.0	20	1/30/2018	<3.0	<5.0	33	<1.0	<2.0	14	7.2	5.6	<3.0	<5.0	12	<5.0	<2.0	<2.0	20	16	<0.1	
REGULATORY SCREENING CRITERIA																				
EPA Residential Soil RSLs			31	0.68	15,000	160	71	NE	23	3,100	80 <sup>1</sup>	390	1,500	390	390	0.78	390	23,000	10	
EPA Commercial Soil RSLs			470	3.0	220,000	2,300	980	NE	350	47,000	320 <sup>1</sup>	5,800	22,000	5,800	5,800	12	5,800	350,000	43	
DTSC Residential Soil SLs (cancer endpoint)			NE	0.11	1,600	NE	2,100	120,000	NE	NE	80*	NE	15,000	NE	390*	NE	390*	NE	1.0*	
DTSC Commercial Soil SLs (cancer endpoint)			NE	0.36	6,900	NE	9,300	1,800,000	NE	NE	320*	NE	54,000	NE	1,500*	NE	1,000*	NE	4.5*	

Notes/Abbreviations:

- <
- Not detected at or above the indicated laboratory method reporting limit
- 
- Not tested
- <sup>1</sup>
- California Human Health Screening Level (CHHSL) used for lead
- bgs
- Below ground surface
- DTSC
- Department of Toxic Substance Control
- EPA
- United States Environmental Protection Agency
- mg/kg
- Milligrams per kilogram (units)
- NA
- Not available
- ND
- Not detected
- NE
- Not established
- RSL
- EPA Region 9 Regional Screening Level, updated November 2017
- SL
- Screening levels, updated January 2018

**TABLE 4**  
**Summary of Groundwater Analytical Results - Total Petroleum Hydrocarbons,  
Volatile Organic Compounds, and Title 22 Metals**

			Total Petroleum Hydrocarbons EPA Method 8015B			Volatile Organic Compounds EPA Method 8260B		Title 22 Metals EPA Method 6010B/7471		
Sample Identification	Sample Depth (Feet bgs)	Date Sampled	C13-C28 (TPH-d) Extractable	C29-C40 (TPH-mo) Extractable	C6-C12 (TPH-g) Purgeable	Toluene	Other VOCs	Barium	Molybdenum	Other Metals
			µg/L	µg/L	µg/L	ug/L	ug/L	ug/L	ug/L	ug/L
B-2	21	1/29/2018	<b>520</b>	<500	<50	0.92	ND	150	<50	ND
B-3	23	1/30/2018	<b>2,000</b>	<500	<50	<0.50	ND	110	62	ND
B-4	23	1/31/2018	<b>1,700</b>	<500	<50	<0.50	ND	--	--	--
B-11	22	1/30/2018	<500	<500	<50	<0.50	ND	--	--	--
B-13	20	1/30/2018	<b>1,200</b>	<500	<50	<0.50	ND	--	--	--
B-14	20	1/30/2018	<b>710</b>	<500	<50	<0.50	ND	--	--	--
<b>REGULATORY SCREENING CRITERIA</b>										
California MCL			NE	NE	NE	1,000	NA	2,000	NA	NA
EPA Tapwater RSL			5.5	31	800	1,100	NA	3,800	100	NA

**Notes/Abbreviations:**

<	Not detected at or above the indicated laboratory method reporting limit
--	Not tested
<b>Bold</b>	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 2017
NA	Not available
ND	Not detected
NE	Not established
RSL	EPA Region 9 Regional Screening Level, updated November 2017
RWQCB	Regional Water Quality Control Board - Los Angeles region
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/L	Micrograms per liter (units)
VOCs	Volatile organic compounds

**TABLE 5**  
**Summary of Soil Vapor Analytical Results - Total Petroleum Hydrocarbons and Volatile Organic Compounds**

			Volatile Organic Compounds EPA Method TO-15					TPH-g EPA Method TO-3/TO-14m
Sample Identification	Sample Top	Date Sampled	Cyclohexane	Isopropyl alcohol	Toluene	Trichloroethene	Other VOCs	TPH-g
			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
B-4-15.0	15	1/31/2018	<3.5	<13	15	17	ND	11,600
B-6-10.0	10	1/31/2018	1,100	3,100	<190	<270	ND	<7,170
B-15-25.0	25	1/31/2018	<170	<130	<190	770	ND	<7,170
<b>REGULATORY SCREENING CRITERIA</b>								
Residential Indoor Air RSLs <sup>1</sup>			6,300	210	5,200	0.48	NA	31
Attenuation Factor			0.002	0.002	0.002	0.002	NA	0.002
<b>Calculated EPA Residential Soil Vapor RSLs</b>			<b>3,150,000</b>	<b>105,000</b>	<b>2,600,000</b>	<b>240</b>	<b>NA</b>	<b>15,500</b>
Commercial/Industrial Indoor Air RSLs <sup>1</sup>			26,000	880	22,000	3.0	NA	130
Attenuation Factor			0.001	0.001	0.001	0.001	NA	0.001
<b>Calculated EPA Industrial Soil Vapor RSLs</b>			<b>26,000,000</b>	<b>880,000</b>	<b>22,000,000</b>	<b>3,000</b>	<b>NA</b>	<b>130,000</b>
DTSC Residential SLs (cancer endpoint) <sup>1</sup>			NE	NE	310*	NE	NA	NA
Attenuation Factor			0.002	0.002	0.002	0.002	NA	NA
<b>Calculated DTSC Residential Soil Vapor SLs</b>			<b>NE</b>	<b>NE</b>	<b>155,000</b>	<b>NE</b>	<b>NA</b>	<b>NA</b>
DTSC Commercial/Industrial SLs (cancer endpoint) <sup>1</sup>			NE	NE	1,300*	NE	NA	NA
Attenuation Factor			0.001	0.001	0.001	0.001	NA	NA
<b>Calculated DTSC Industrial Soil Vapor SLs</b>			<b>NE</b>	<b>NE</b>	<b>1,300,000</b>	<b>NE</b>	<b>NA</b>	<b>NA</b>

**Notes/Abbreviations:**

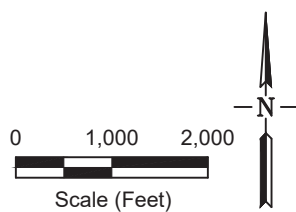
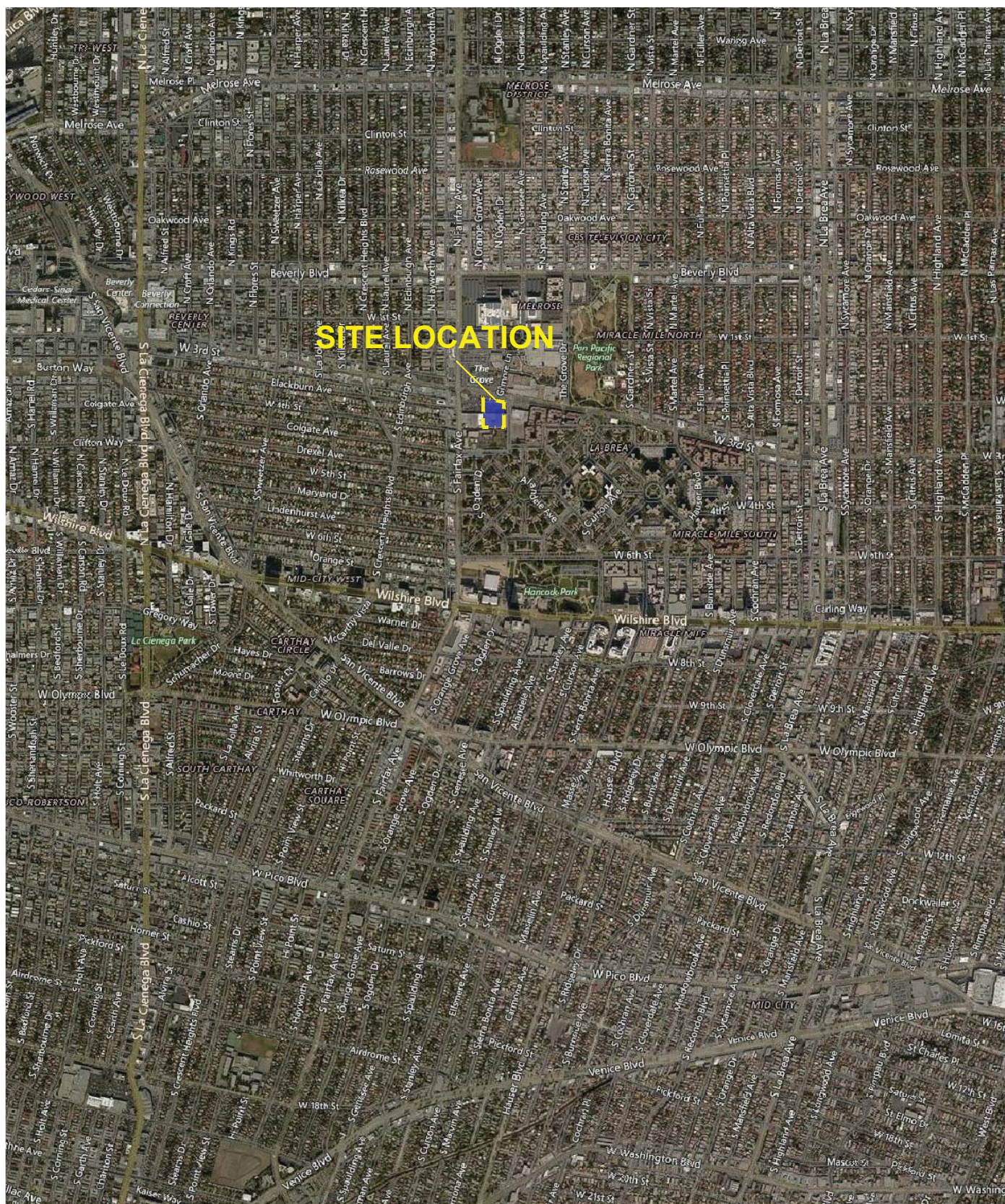
- \* Non cancer endpoint value used as cancer endpoint value not established
- Bold** Calculated screening criteria for soil vapor based on quotient of screening criteria for air and attenuation factor
- Bold** Exceedance of screening criteria
- <sup>1</sup> Value provided is for indoor air, not soil vapor
- bgs Below ground surface
- DTSC Department of Toxic Substance Control
- EPA United States Environmental Protection Agency
- NA Not available
- ND Not detected
- NE Note Established
- RSL EPA Region 9 Regional Screening Level, updated November 2017
- SL Screening Levels, updated January 2018
- µg/m<sup>3</sup> Units are in micrograms per meter cubed
- VOCs Volatile organic compounds



## FIGURES







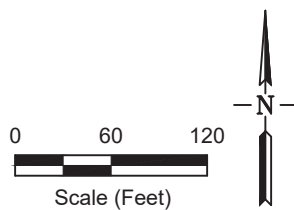
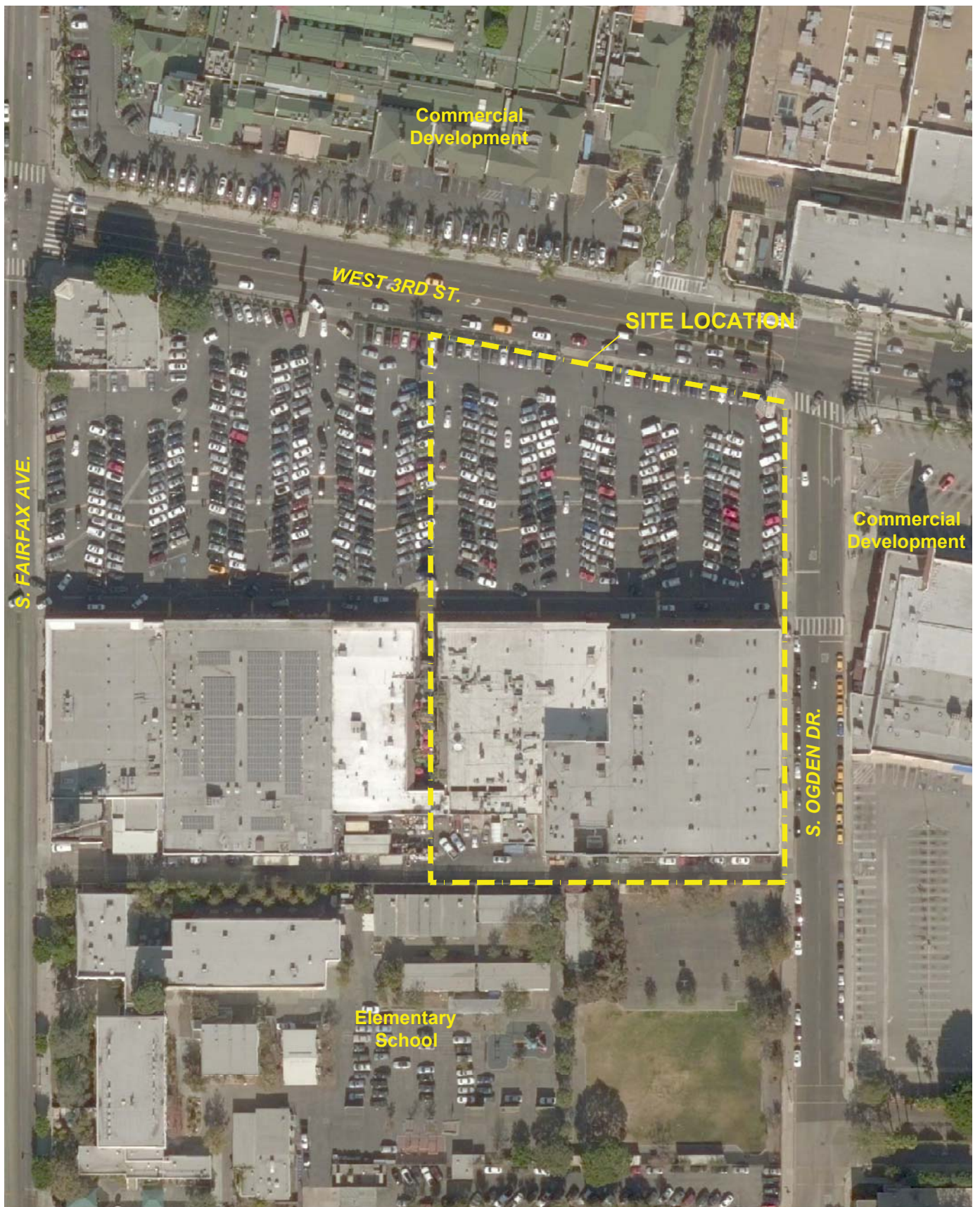
**FIGURE 1**  
**Site Vicinity Map**

Phase II Environmental Site Assessment  
3rd and Fairfax - 6300 to 6332 West 3rd Street  
Los Angeles, California



Project No. 2047.15

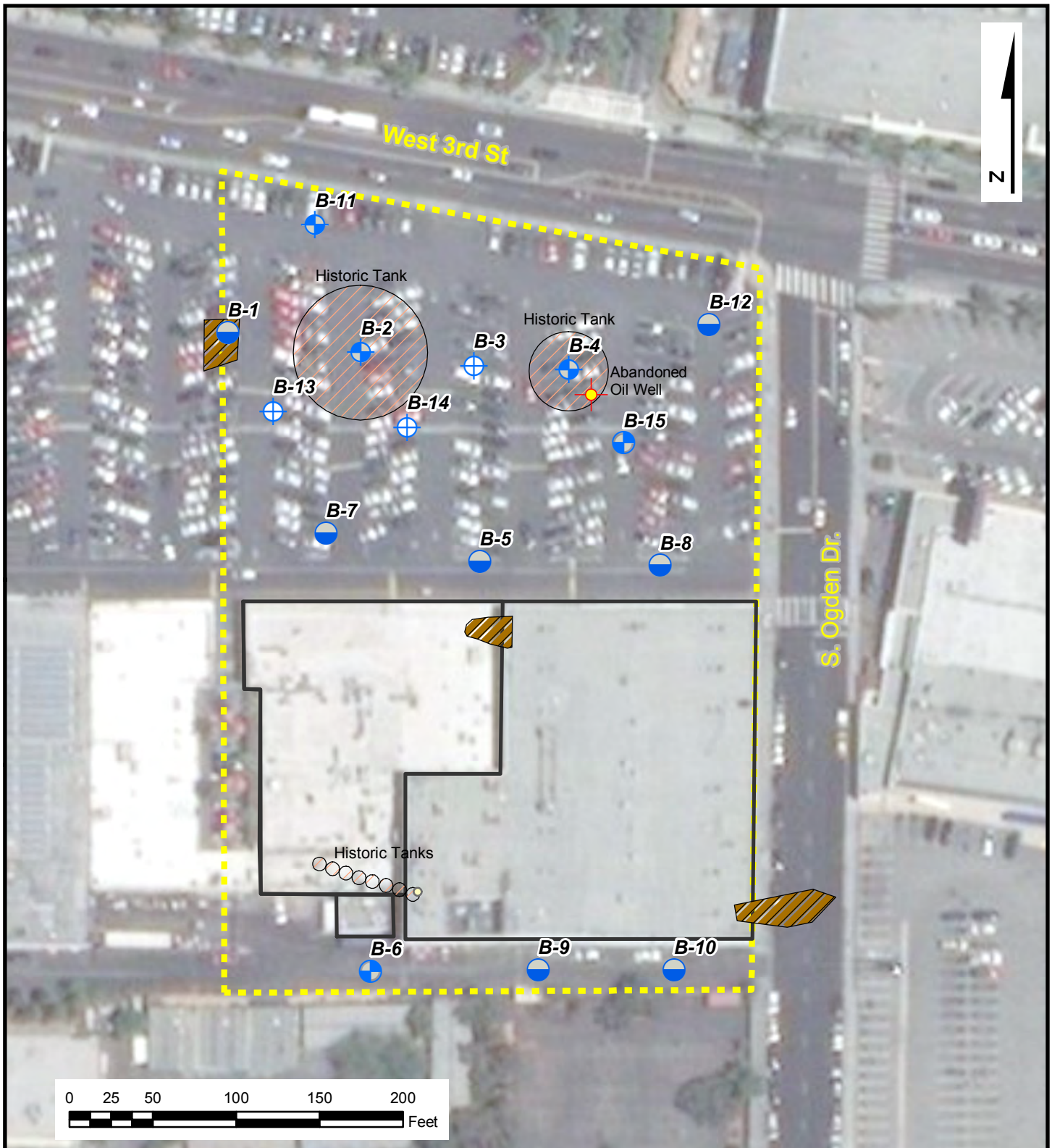




**FIGURE 2**  
**Site Plan**

Phase II Environmental Site Assessment  
3rd and Fairfax - 6300 to 6332 West 3rd Street  
Los Angeles, California





## Legend

### SampleType








- |   |  |
|---|--|
|  Soil                        |  Historic Sumps     |
|  Soil and Groundwater        |  Historic Tanks     |
|  Soil, Groundwater and Vapor |  Abandoned Oil Well |
|  Soil and Vapor              |  |

Figure 3

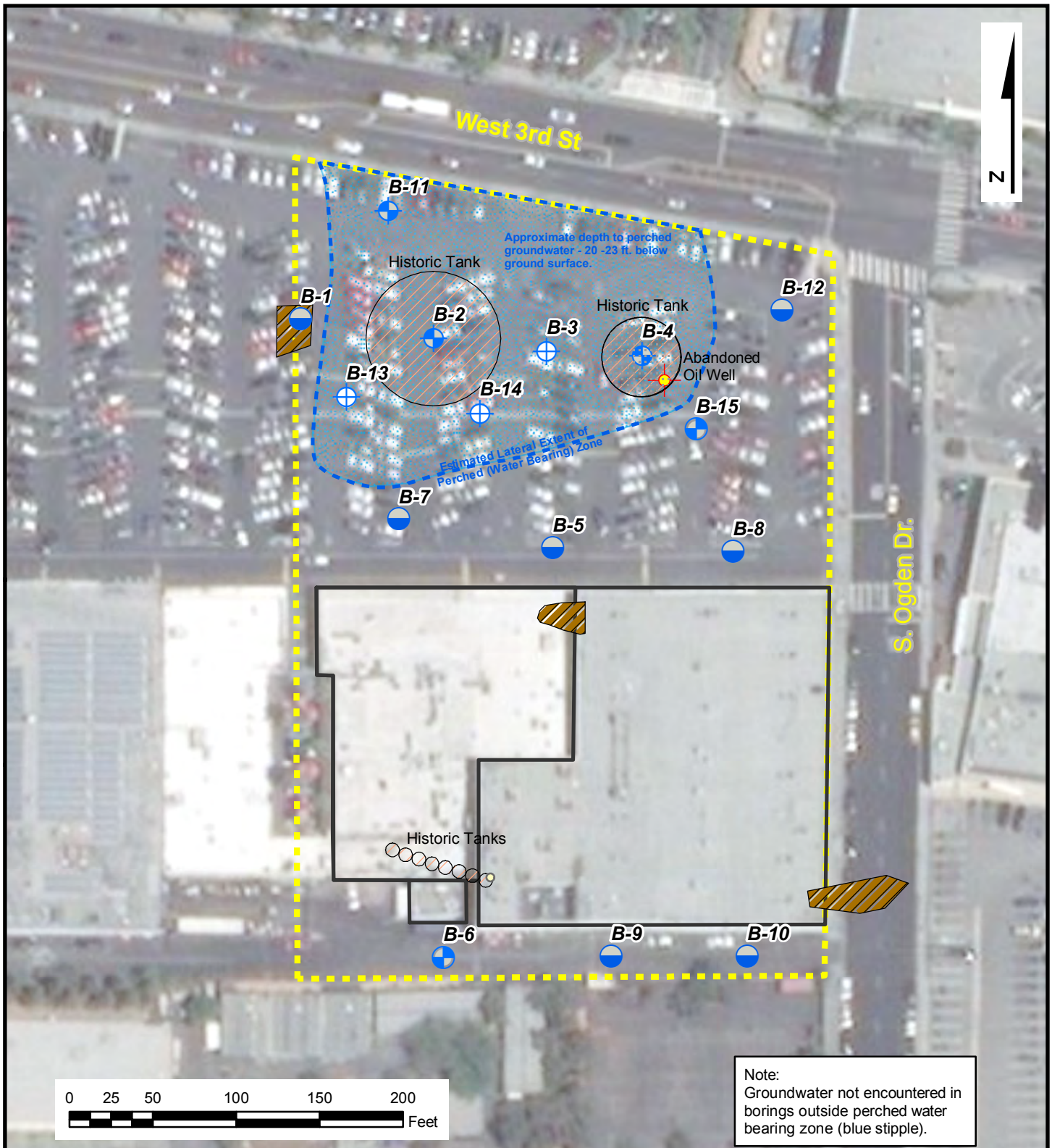
## Boring Location Map

3rd and Fairfax  
Los Angeles, California

DATE:  
2/20/2018

PROJECT NUMBER:  
2047.15

 northgate  
environmental management, inc.



## Legend

### SampleType









-  Soil
-  Soil and Groundwater
-  Soil, Groundwater and Vapor
-  Soil and Vapor
-  Historic Sumps
-  Historic Tanks
-  Perched Water Bearing Zone
-  Abandoned Oil Well

Figure 4

### Estimated Lateral Extent of Perched Water Bearing Zone

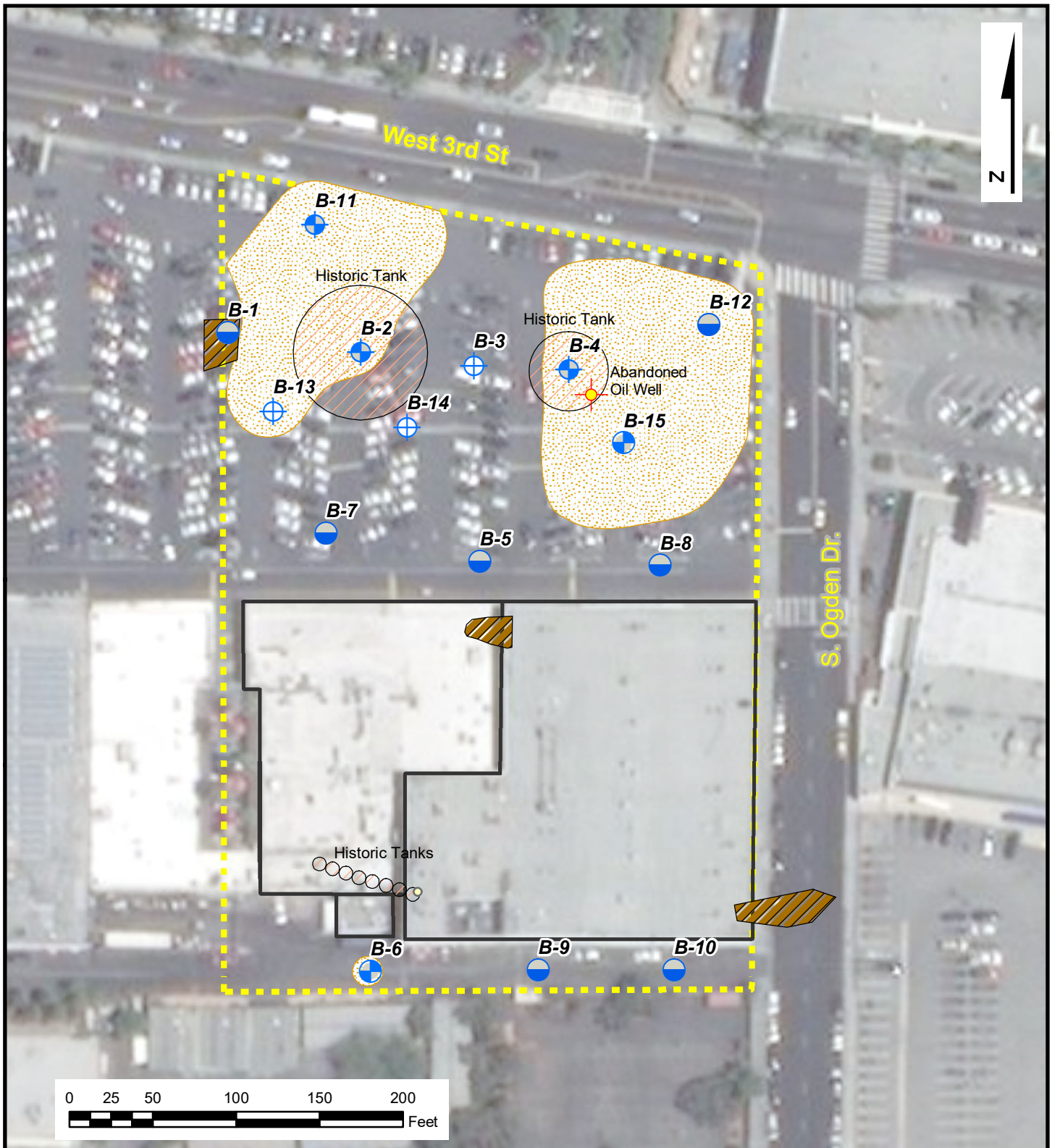
3rd and Fairfax  
Los Angeles, California

DATE:  
2/20/2018

PROJECT NUMBER:  
2047.15







## Legend

### SampleType









-  Soil
-  Soil and Groundwater
-  Soil, Groundwater and Vapor
-  Soil and Vapor
-  Historic Sumps
-  Historic Tanks
-  TPHd > 100 mg/kg
-  Abandoned Oil Well

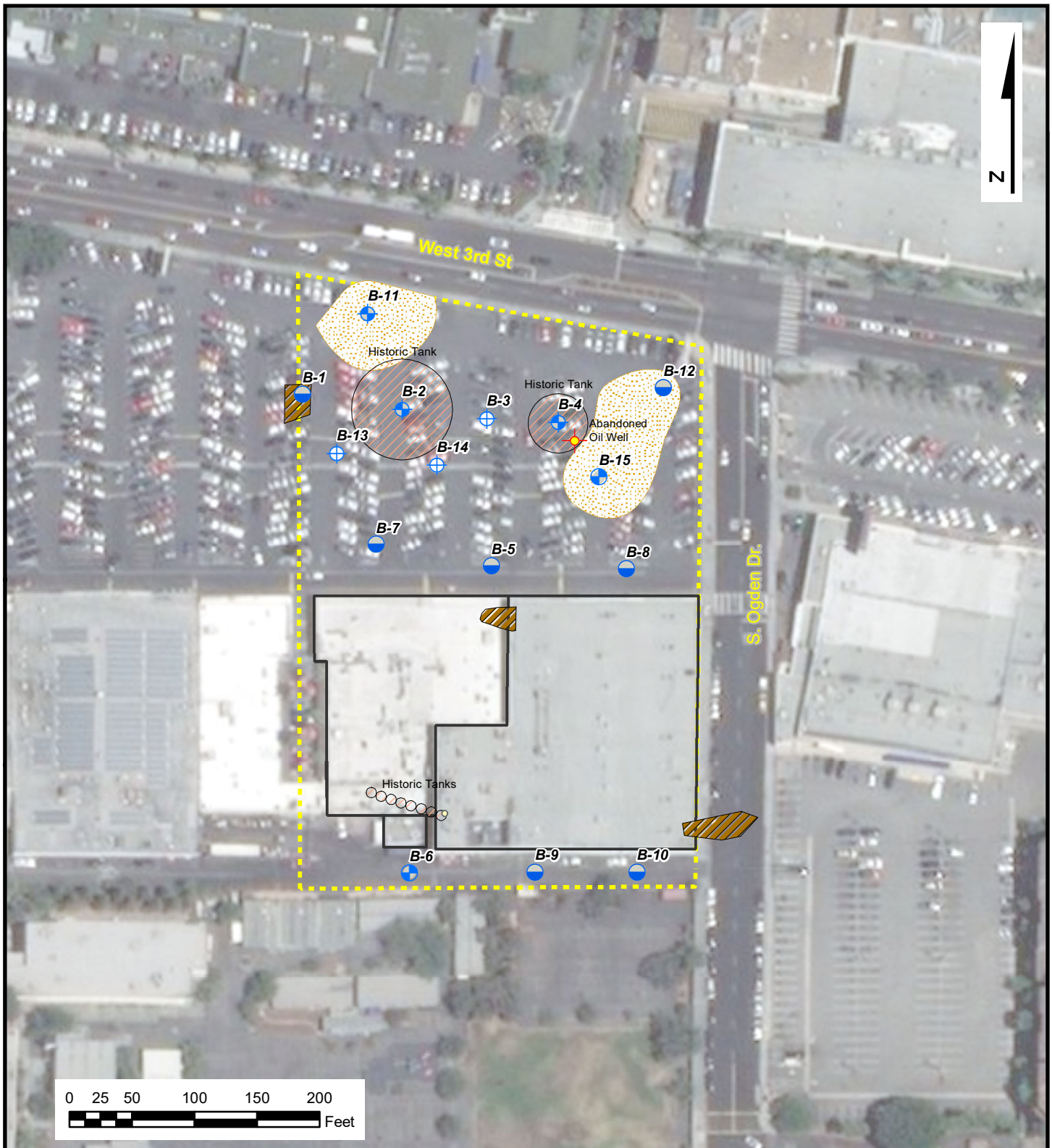
Figure 5a

Total Petroleum Hydrocarbon – Diesel  
(Greater Than 100 mg/kg)  
In Upper 1 Foot of Subsurface  
3rd and Fairfax  
Los Angeles, California

DATE:  
2/20/2018

PROJECT NUMBER:  
2047.15

 northgate  
environmental management, inc.



## Legend

### SampleType









- |   |                             |   |                    |
|---|-----------------------------|---|--------------------|
|  | Soil                        |  | Historic Sumps     |
|  | Soil and Groundwater        |  | Historic Tanks     |
|  | Soil, Groundwater and Vapor |  | TPHd > 100 mg/kg   |
|  | Soil and Vapor              |  | Abandoned Oil Well |

Figure 5b

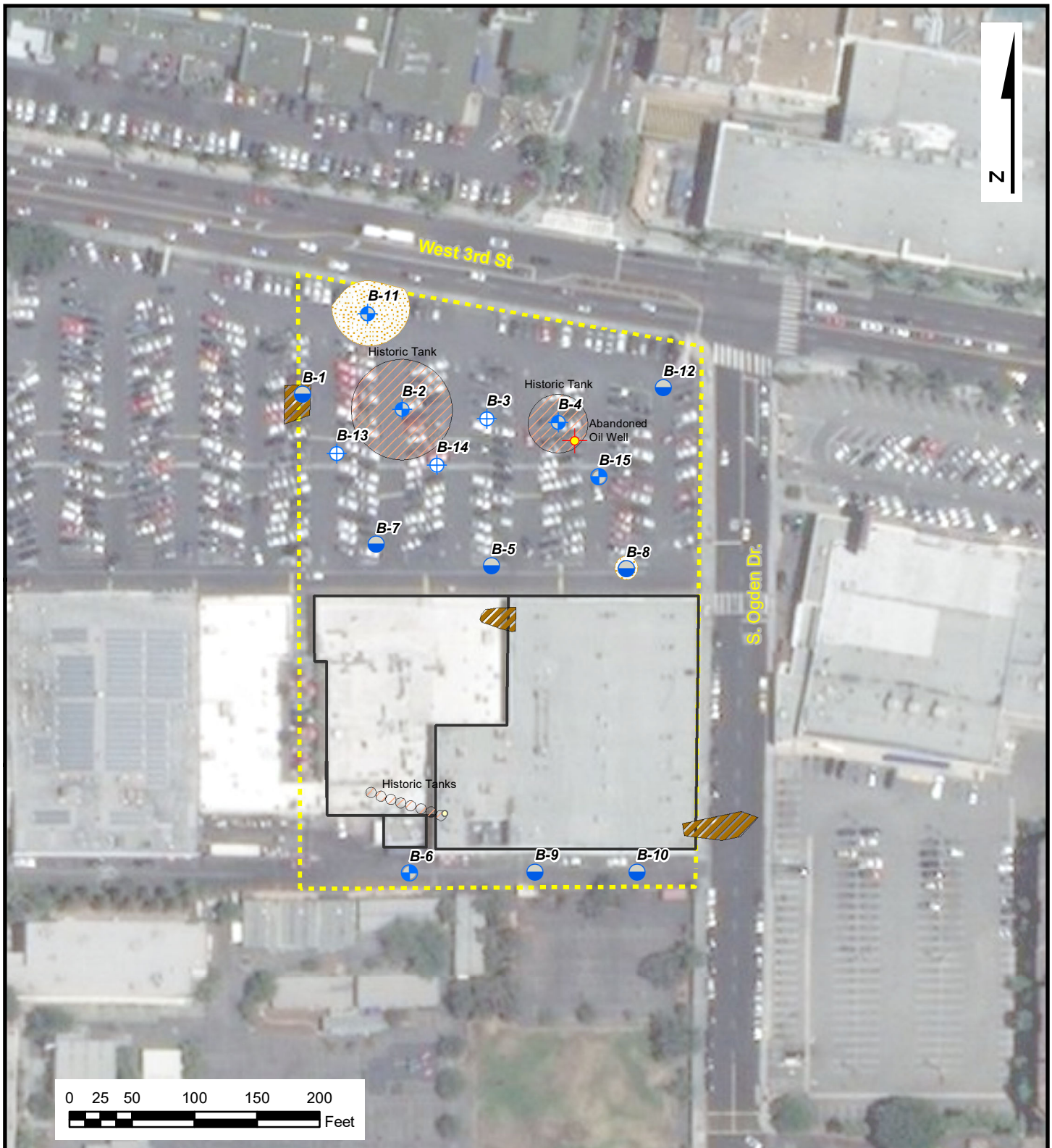
Total Petroleum Hydrocarbon – Diesel  
(Greater Than 100 mg/kg)  
5 Feet Below Ground Surface  
3rd and Fairfax  
Los Angeles, California

DATE:  
2/20/2018

PROJECT NUMBER:  
2047.15

 northgate  
environmental management, inc.





## Legend

### SampleType









-  Soil
-  Soil and Groundwater
-  Soil, Groundwater and Vapor
-  Soil and Vapor
-  Historic Sumps
-  Historic Tanks
-  TPHd >100 mg/kg
-  Abandoned Oil Well

Figure 5c

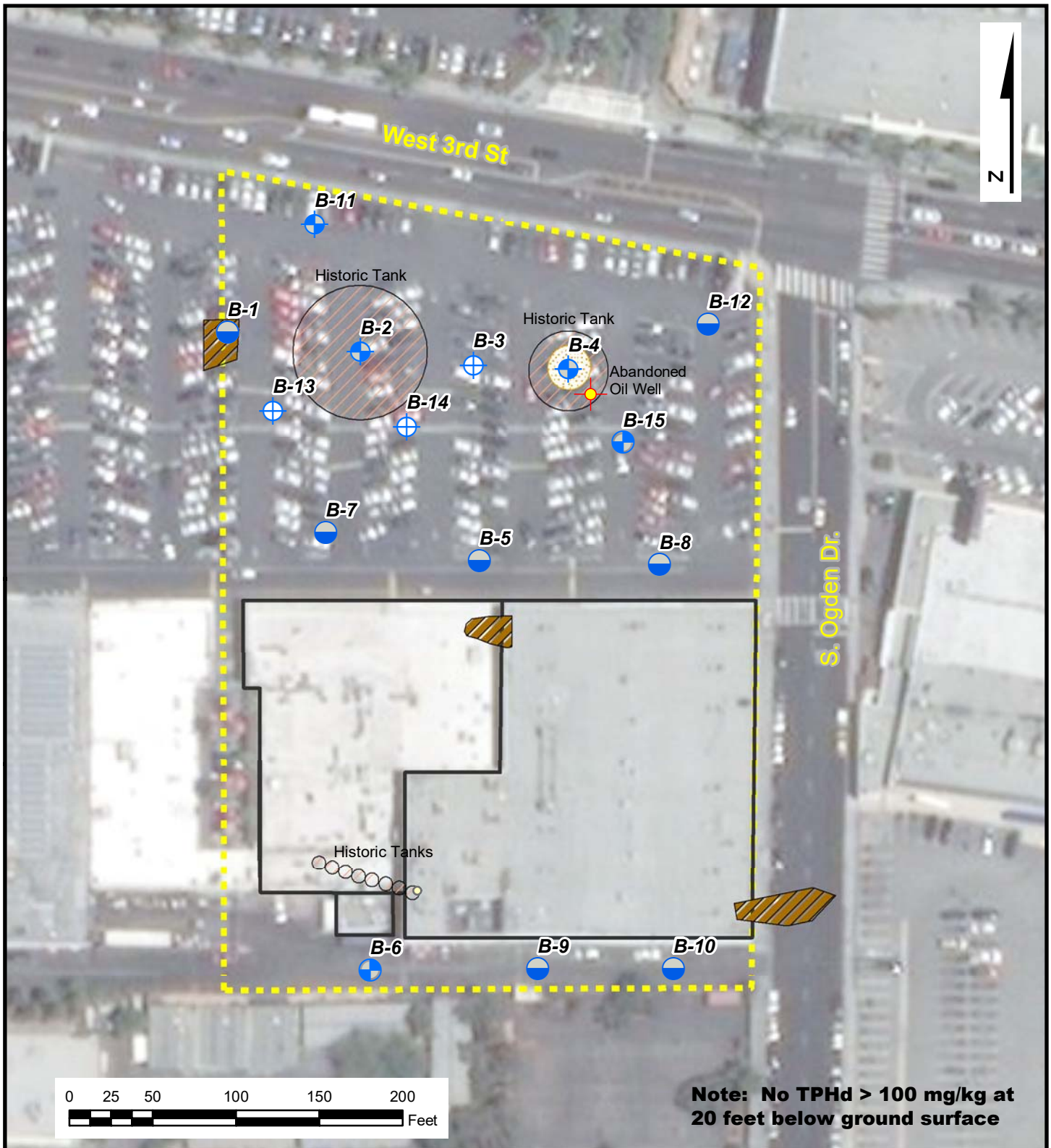
Total Petroleum Hydrocarbon – Diesel  
(Greater Than 100 mg/kg)  
Ten Feet Below Ground Surface  
3rd and Fairfax  
Los Angeles, California

DATE:  
2/20/2018

PROJECT NUMBER:  
2047.15

 northgate  
environmental management, inc.





## Legend

### SampleType









-  Soil
-  Soil and Groundwater
-  Soil, Groundwater and Vapor
-  Soil and Vapor
-  Historic Sumps
-  Historic Tanks
-  Abandoned Oil Well
-  TPHd > 100 mg/kg

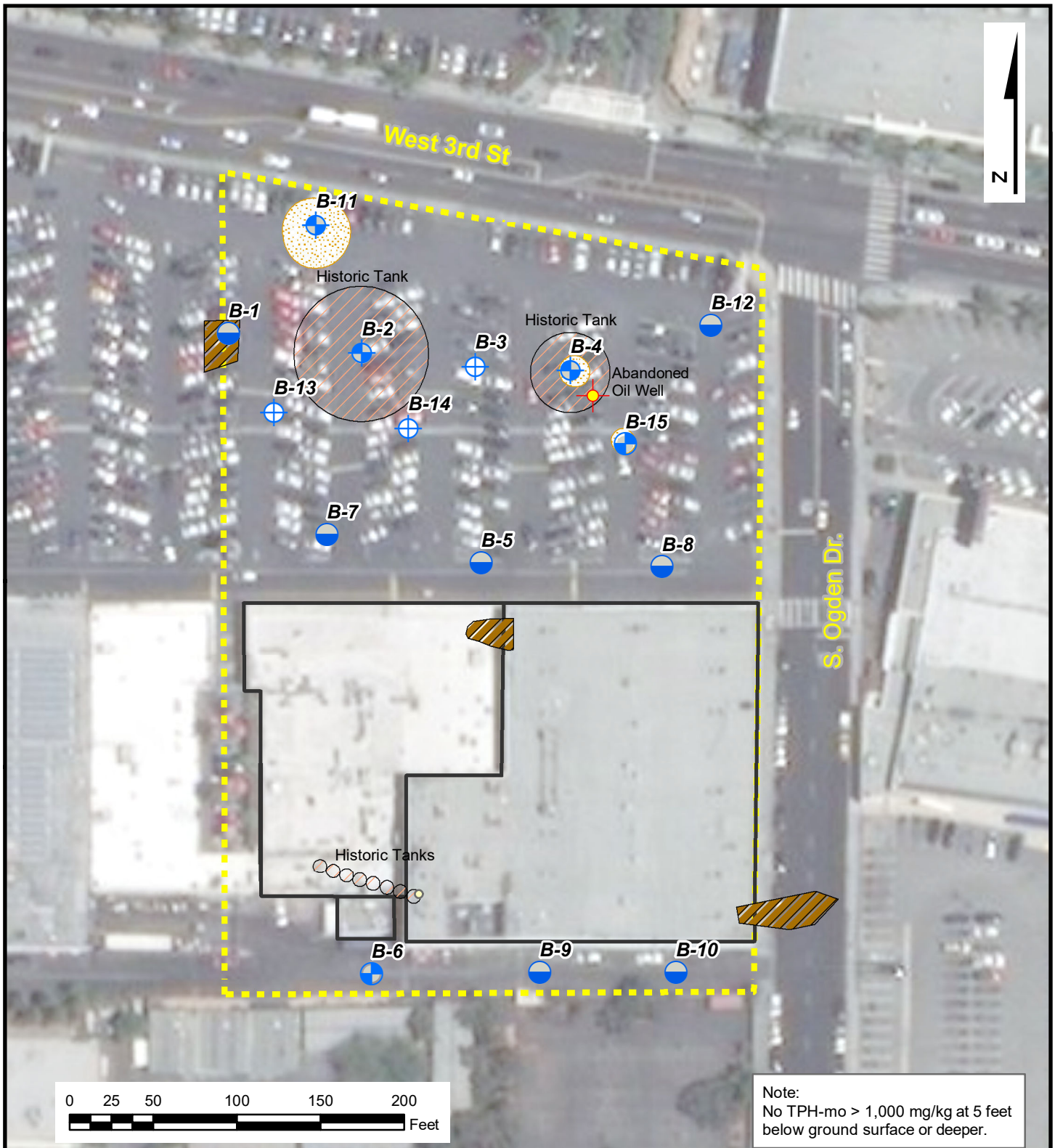
Figure 5d

Total Petroleum Hydrocarbon – Diesel  
(Greater Than 100 mg/kg)  
Fifteen Feet Below Ground Surface  
3rd and Fairfax  
Los Angeles, California

DATE:  
2/20/2018

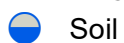
PROJECT NUMBER:  
2047.15

 northgate  
environmental management, inc.



## Legend

### SampleType



Soil



Soil and Groundwater



Soil, Groundwater and Vapor



Soil and Vapor



Historic Sumps



Historic Tanks



TPHmo > 1,000 mg/kg



Abandoned Oil Well

Figure 6

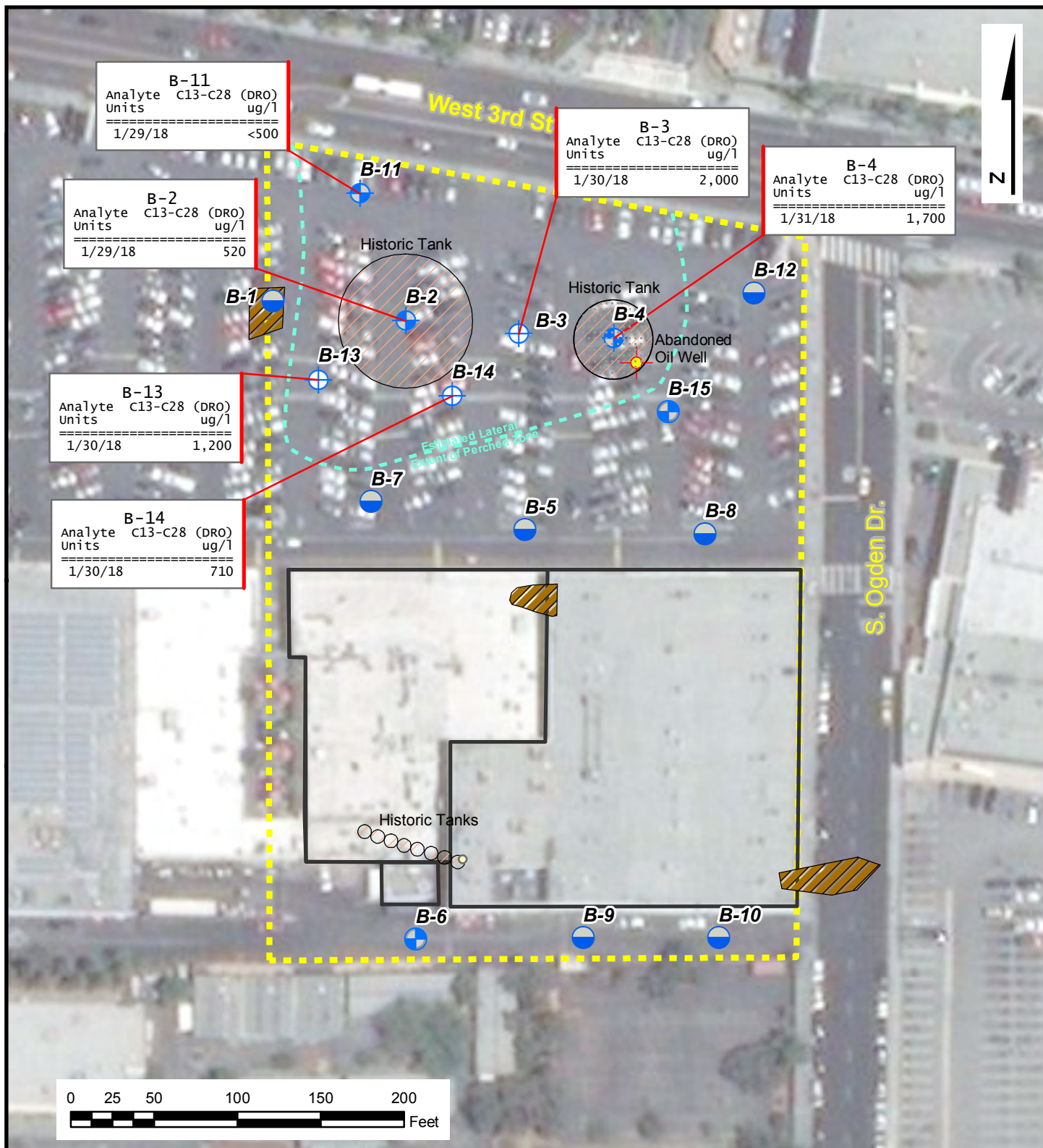
Total Petroleum Hydrocarbon – Motor Oil  
(Greater Than 1,000 mg/kg)  
Within Upper 1 Foot of Subsurface  
3rd and Fairfax  
Los Angeles, California

DATE:  
2/20/2018

PROJECT NUMBER:  
2047.15

 northgate  
environmental management, inc.





## Legend

### SampleType

- Soil
- Soil and Groundwater
- Soil, Groundwater and Vapor
- Soil and Vapor
- Historic Sumps
- Historic Tanks
- Perched Zone
- Abandoned Oil Well

Figure 7

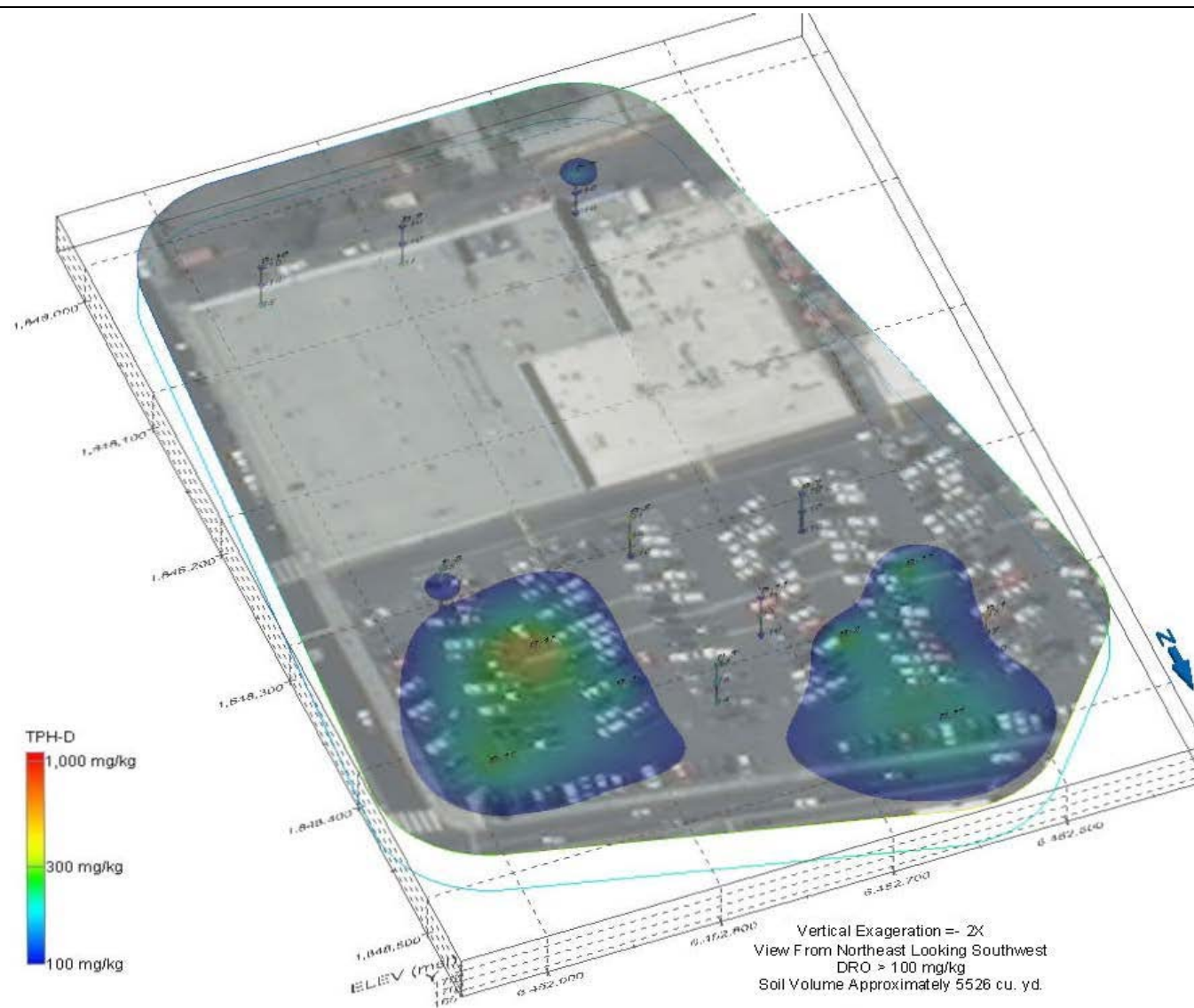
Total Petroleum Hydrocarbon  
Diesel (TPHd) In Groundwater

3rd and Fairfax  
Los Angeles, California

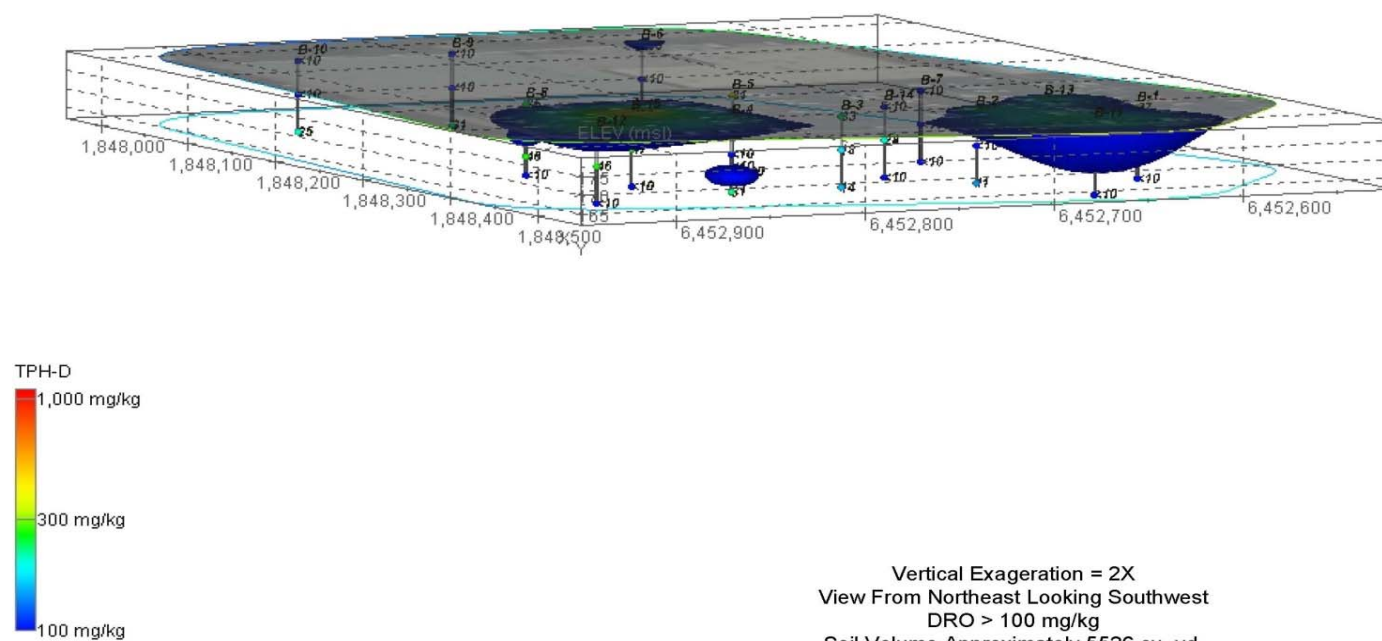
DATE:  
2/20/2018

PROJECT NUMBER:  
2047.15

northgate  
environmental management, inc.



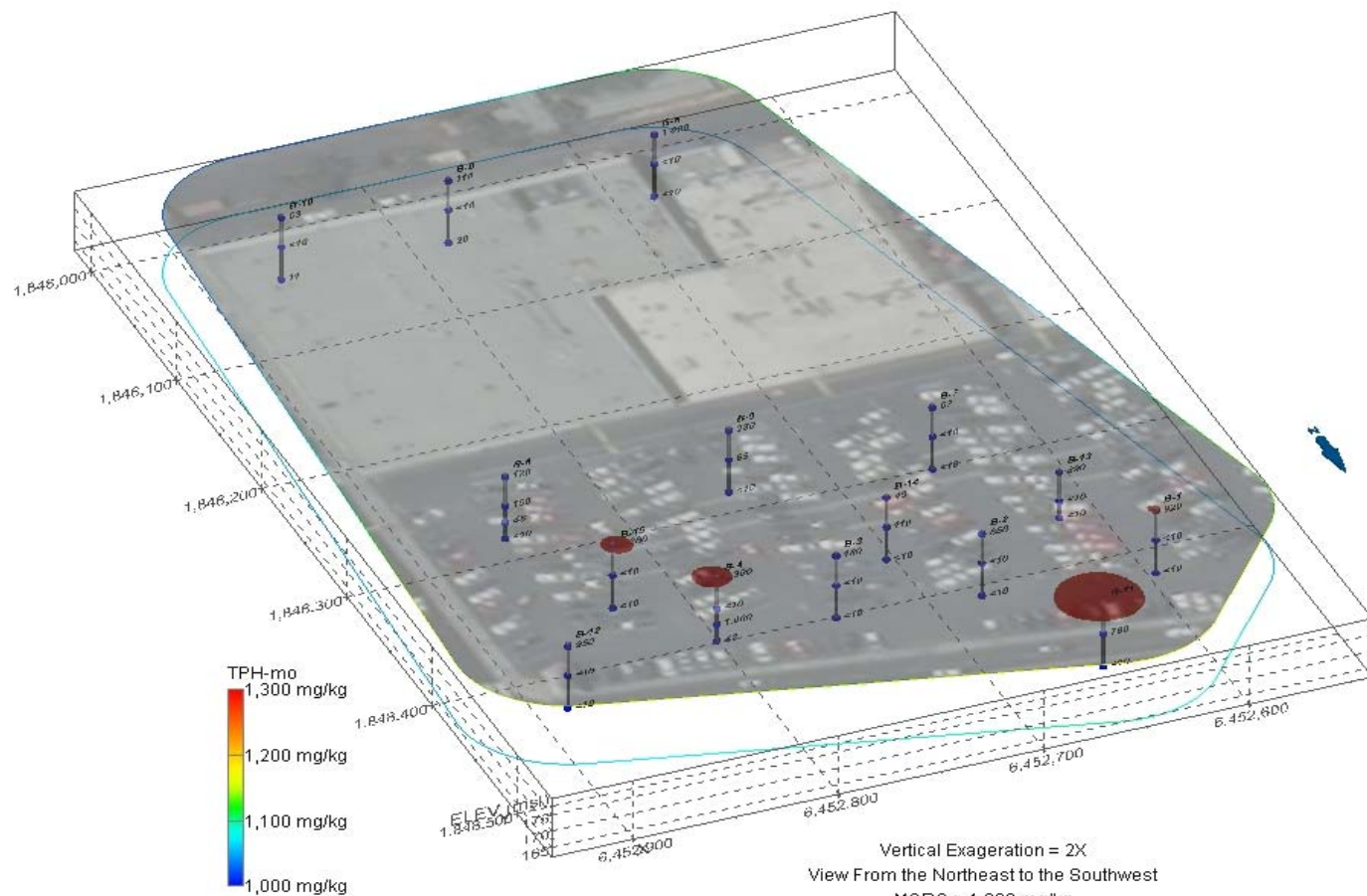
**FIGURE 8a**  
**Total Petroleum Hydrocarbon - Diesel (Greater than 100 mg/kg), High View - 3D**  
 Phase II Environmental Site Assessment  
 3<sup>rd</sup> and Fairfax - 6300 to 6332 West 3<sup>rd</sup> Street  
 Los Angeles, California



**FIGURE 8b**  
**Total Petroleum Hydrocarbon - Diesel (Greater than 100 mg/kg), Low View - 3D**

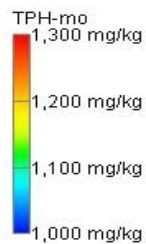
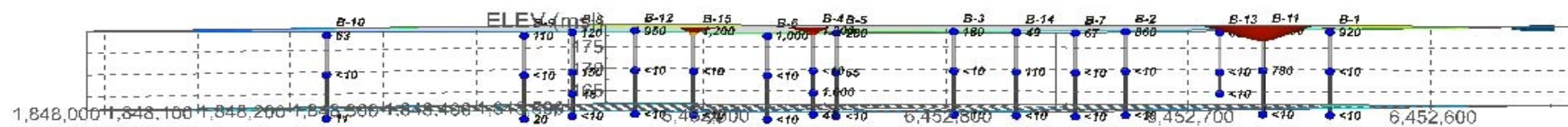
Phase II Environmental Site Assessment  
3<sup>rd</sup> and Fairfax - 6300 to 6332 West 3<sup>rd</sup> Street  
Los Angeles, California





**FIGURE 9a**  
**Total Petroleum Hydrocarbon - Motor Oil**  
**(Greater than 1,000 mg/kg), High View - 3D**

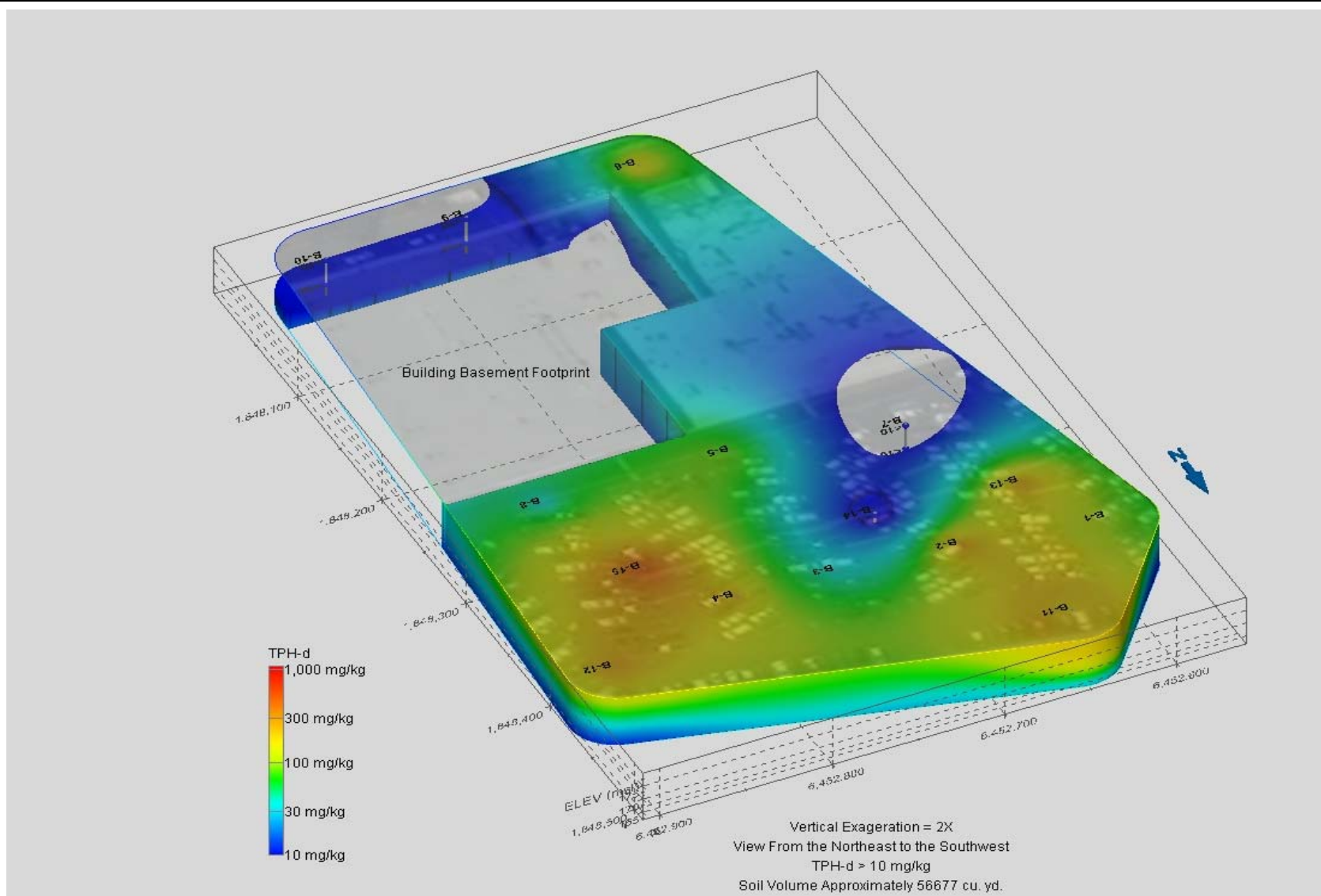
Phase II Environmental Site Assessment  
3<sup>rd</sup> and Fairfax - 6300 to 6332 West 3<sup>rd</sup> Street  
Los Angeles, California



Vertical Exaggeration = 2X  
 View From the Northeast to the Southwest  
 MORO > 1,000 mg/kg  
 Soil Volume Approximately 69 cu. yd.

**FIGURE 9b**  
**Total Petroleum Hydrocarbon - Motor Oil**  
**(Greater than 1,000 mg/kg), Low View - 3D**

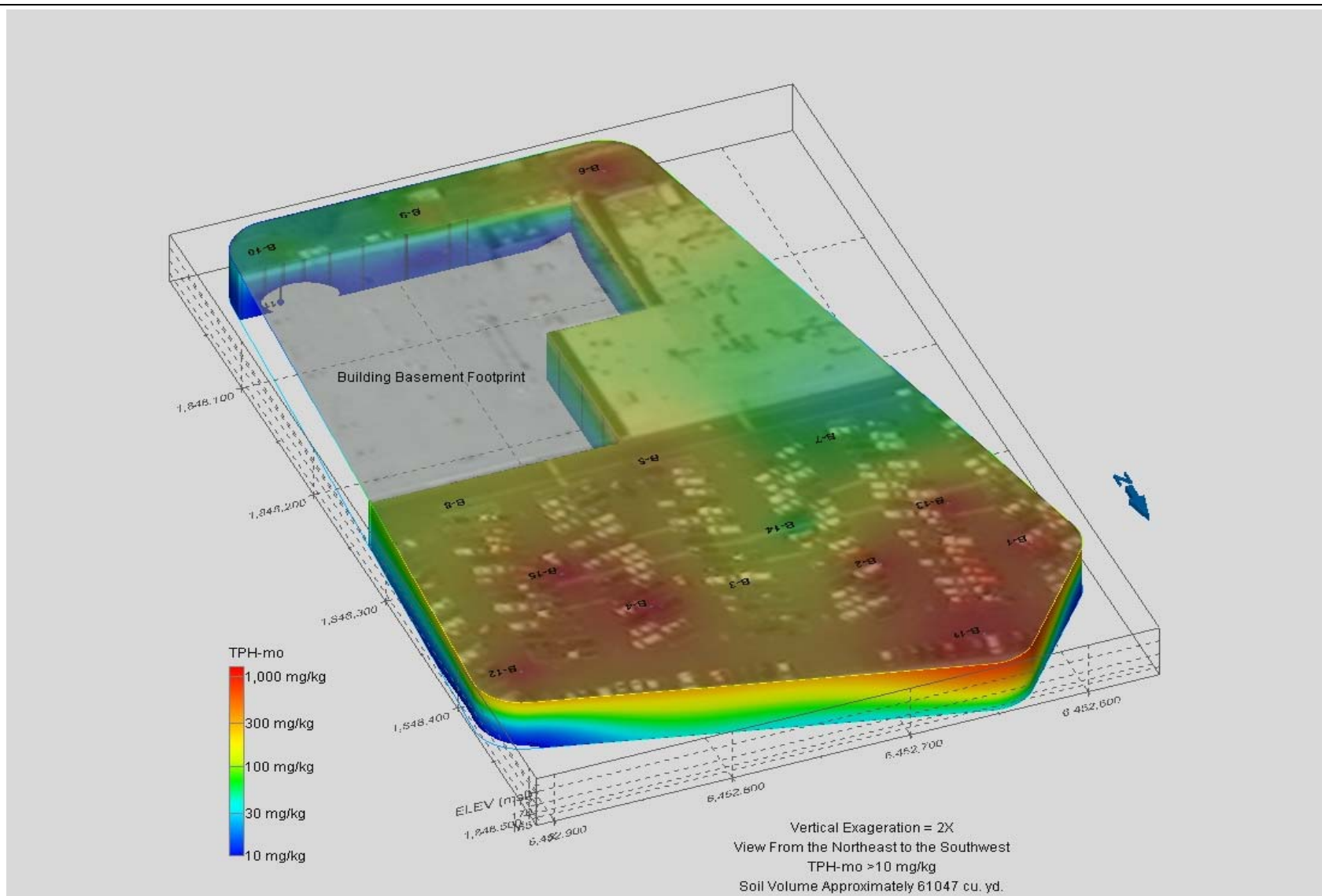
Phase II Environmental Site Assessment  
 3<sup>rd</sup> and Fairfax - 6300 to 6332 West 3<sup>rd</sup> Street  
 Los Angeles, California



**FIGURE 10**  
**Total Petroleum Hydrocarbon - Diesel**  
**(All Detections) - 3D**

Phase II Environmental Site Assessment  
 3<sup>rd</sup> and Fairfax - 6300 to 6332 West 3<sup>rd</sup> Street  
 Los Angeles, California





**FIGURE 11**  
**Total Petroleum Hydrocarbon - Motor Oil**  
**(All Detections) - 3D**

Phase II Environmental Site Assessment  
 3<sup>rd</sup> and Fairfax - 6300 to 6332 West 3<sup>rd</sup> Street  
 Los Angeles, California

**APPENDIX A**  
**FIELD PROCEDURES**



## **APPENDIX A – FIELD PROCEDURES**

### **Drilling of Soil Borings**

Prior to advancing the borings, proposed locations were outlined with white paint. Northgate then notified DigAlert (Underground Service Alert of Southern California) at least 48 hours prior to drilling activities, as required by law. As an additional precaution, Northgate contracted with Goldak, Incorporated, an independent geophysical utility locating company, to identify underground utilities and other subsurface obstructions so that the sampling locations were “clear” of any subgrade features. After underground features had been identified and underground utilities had been marked, boring locations were finalized.

All borings were advanced using 2.25” (outer diameter) direct-push drilling rods, with soil samples collected in advance of the bit face using a core sampler. Soil borings were advanced using a truck-mounted Geoprobe™ 6600 direct push rig. The borings were advanced using 2.25 inch diameter hollow rods. The lead drilling rod contained a removable 1.5 inch core sampler that was retrieved at the end of each run. Acetate sleeves were used as liners for the core sampler to collect undisturbed soil samples as the rods were advanced. Borings were advanced to depths of up to 30 feet bgs. All borings were located on private property, none were located in streets or sidewalks.

### **Installation of Temporary Monitoring Wells**

Groundwater samples were collected from six separate boring locations using temporary monitoring wells installed with a direct-push drilling rig. The borings only remained open long enough to collect a groundwater sample before conversion to temporary soil vapor monitoring probes. Following collection of soil vapor samples, the borings were abandoned by backfilling with neat cement grout placed using the tremie method.

Polyvinyl chloride (PVC) well casing were installed in the deep borings to create temporary monitoring wells. The PVC casing terminated in five-feet of 0.010-inch slotted one inch SCH 40 PVC well screen, and threaded bottom cap. The screen was installed so it extended five feet into the saturated zone. The depth to static water within the well casing was determined, and the saturated thickness was calculated in order to facilitate well purging prior to sampling.



Groundwater samples were collected from the temporary wells using new, disposable Teflon bailers following purging of three casing volumes of water from the wells. Upon completion of groundwater and soil vapor sampling, the borings were abandoned by first removing the PVC well casing, and then backfilling with neat cement grout. The grout contained 3% by weight bentonite powder, and was emplaced using the tremie method from total depth to within three inches of the surface. The upper three inches were backfilled with asphalt patch or concrete to match the existing grade.

### **Installation of Temporary Soil Vapor Monitoring Probes**

Temporary soil vapor probes (SMPs) were constructed in the five of the soil borings. Temporary SMPs were constructed inside the drill rods after they had advanced to total depth. Single completion SMPs were constructed at each location, with the probes set at various depths at each location between approximately 8 and 25 feet bgs.

The SMPs consisted of 6-inch long stainless steel implants set at the desired probe depths. Teflon tubing (0.33 inch diameter) was connected from the implant to the ground surface, and terminated above the existing surface with a valve. 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.

At the completion of vapor sampling, the borings were abandoned by removing the tubing and backfilling the borings with neat cement grout containing 3% hydrated bentonite powder. The upper three inches of the borings were abandoned using cold-patch asphalt or concrete to match the existing surface (see attached figure).


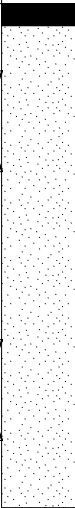
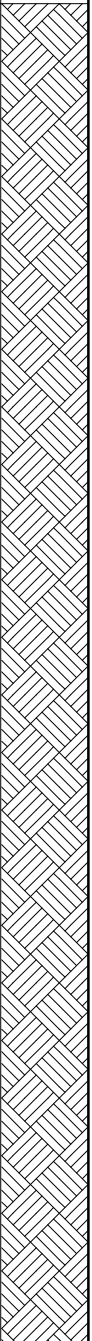

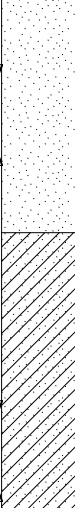
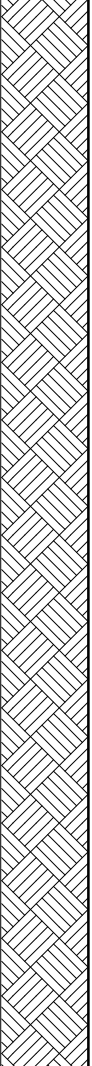


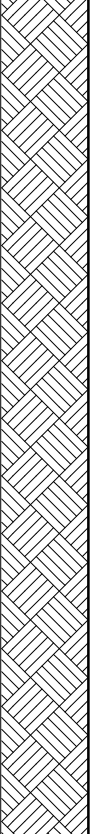

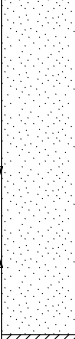
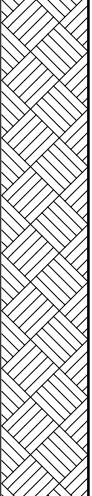

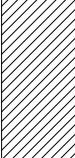
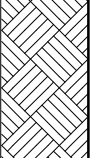


**APPENDIX B**  
**BORING LOGS**



# Boring Log

Project Number: 2047.15		Boring No.: B-1	
Project Name: Holland 3rd & Fairfax		Logged by: G. Baader	
Location: 6300 West 3rd St. Los Angeles		Date Started: 01/29/18	Date Completed: 01/29/18
Drilling Contractor: BC2		Total Depth (ft bgs): 32.0	Depth to Water (ft bgs): NA
Drilling Method: Direct Push		Borehole Dia. (in): 2.25	Surface Elevation (ft MSL):
Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Boring abandoned with neat cement grout containing 3% bentonite powder. Groundwater not encountered.			

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill			
1	B-1-1.0 07:55			Asphalt	4 inches of asphalt	6.5	6.5				
2				SP	Poorly Graded Sand (SP): Dark brown 10YR (3/3), slightly moist, loose. 95% fine sand, 5% non-plastic fines. No odor or staining.						
3											
4											
5	B-1-5.0 08:14			SP		1.2	1.2				
6											
7											
8											
9	B-1-10.0 08:19			SC	Clayey sand (SC): Yellowish brown, medium stiff, damp. 80% fine sand, 20% moderate to non-plastic fines. No odor or staining.	6.1	6.1				
10											
11											
12											
13	B-1-15.0 08:21			SP	Poorly Graded Sand (SP): Medium brown, medium dense, damp. 95% fine sand, 5% non-plastic fines. No odor or staining.	5.1	5.1				
14											
15											
16											
17				CL	Lean Clay with Sand (CL): Yellowish brown, medium stiff, damp. 15% fine sand, 85% moderate-plastic fines. No odor or staining.						
18											
19											

# Boring Log


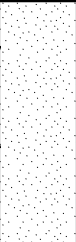
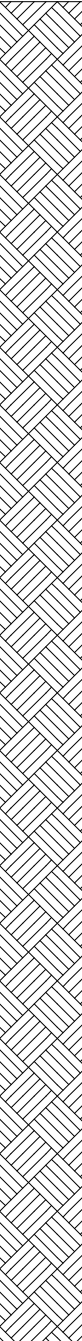


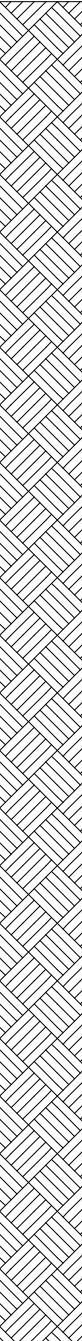

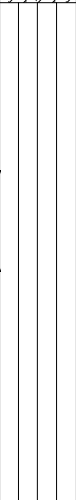
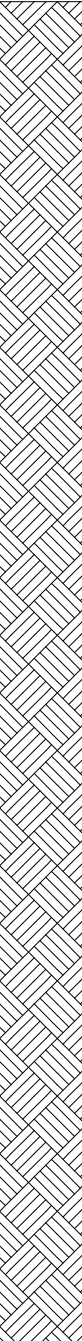


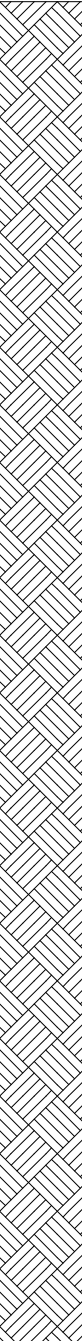


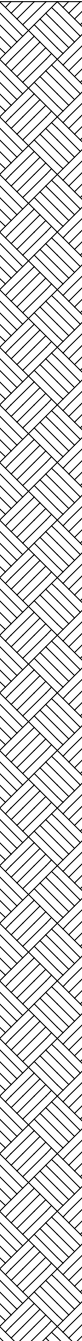

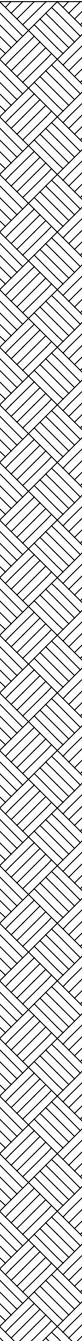

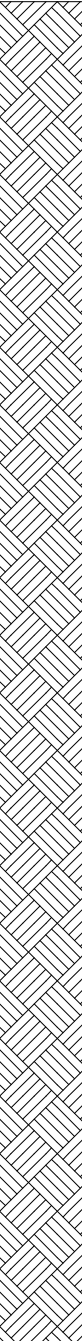

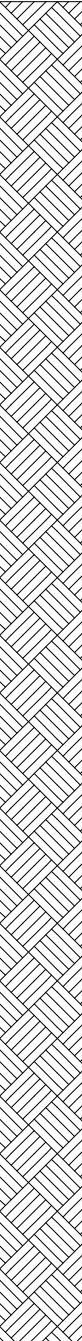

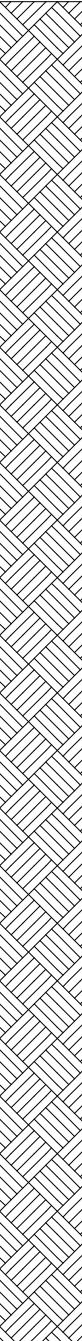
<b>Project Number: 2047.15</b>	<b>Boring No.: B-1</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/29/18</b>	<b>Date Completed: 01/29/18</b>

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-1-20.0 08:29	X			Lean Clay with Sand (CL): Yellowish brown, medium stiff, damp. 15% fine sand, 85% moderate-plastic fines. No odor or staining.		7.3	
22								
23								
24								
25	B-1-25.0 09:15	X					9.2	
26		X		CL				
27								
28								
29								
30	B-1-30.0 09:22	X					9.6	
31		X						
32								
33					Total Depth = 32.0 feet			
34								
35								
36								
37								
38								
39								
40								
41								
42								

# Boring Log

<b>Project Number: 2047.15</b>	<b>Boring No.: B-2</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/29/18</b>	<b>Date Completed: 01/29/18</b>
<b>Drilling Contractor: BC2</b>	<b>Total Depth (ft bgs): 25.0</b>	<b>Depth to Water (ft bgs): 21.15</b>
<b>Drilling Method: Direct Push</b>	<b>Borehole Dia. (in): 2.25</b>	<b>Surface Elevation (ft MSL):</b>


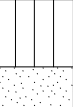

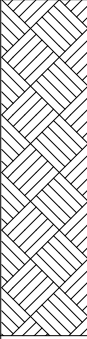


**Remarks:** Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Collected groundwater sample B-2 @ 14:30 in temporary well constructed in boring. Boring abandoned with neat cement grout containing 3% bentonite powder.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B-2-1.0 13:30			Asphalt	4 inches of asphalt	31.7	5.0	
2				SP	Poorly Graded Sand (SP): Dark brown, slightly moist, loose. 95% fine sand, 5% non-plastic fines. Moderate hydrocarbon odor, no staining.			
3				SP				
4	B-2-5.0 13:42			SC	Clayey sand (SC): Yellowish brown, medium stiff, damp. 80% fine sand, 20% moderate to non-plastic fines. No odor or staining.	5.0	7.6	
5				SC				
6				SC				
7	B-2-10.0 13:48			ML	Sandy Silt (ML): Olive green to greenish-gray, soft to medium-stiff, damp. 30% fine sand, 70% non to moderate-plastic fines. No odor or staining.	7.6	6.3	
8				ML				
9				ML				
10	B-2-15.0 13:55			ML		6.3		
11				ML				
12				ML				
13								
14								
15								
16								
17								
18								
19								



# Boring Log



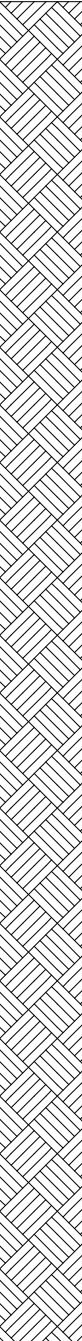





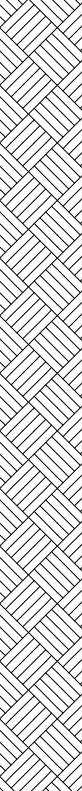






<b>Project Number: 2047.15</b>	<b>Boring No.: B-2</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/29/18</b>	<b>Date Completed: 01/29/18</b>

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-2-20.0 14:00			ML	Sandy Silt (ML): Olive green to greenish-gray, soft to medium-stiff, damp. 30% fine sand, 70% non to moderate-plastic fines. No odor or staining.		8.6	
22				SP	Poorly Graded Sand (SP): Greenish gray, loose, damp. 95% fine sand, 5% non-plastic fines. No odor or staining.			
23					Static water level after groundwater sampling = 21.1' bgs			
24					First water observed during drilling = 21.15' bgs			
25	B-2-25.0 14:12				Total Depth = 25.0 feet		8.7	
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

# Boring Log

<b>Project Number: 2047.15</b>	<b>Boring No.: B-3</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/30/18</b>	<b>Date Completed: 01/30/18</b>
<b>Drilling Contractor: BC2</b>	<b>Total Depth (ft bgs): 30.0</b>	<b>Depth to Water (ft bgs): 22.85</b>
<b>Drilling Method: Direct Push</b>	<b>Borehole Dia. (in): 2.25</b>	<b>Surface Elevation (ft MSL):</b>

**Remarks:** Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Collected groundwater sample B-3 @ 12:05 in temporary well constructed in boring. Boring abandoned with neat cement grout containing 3% bentonite powder.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B-3-1.0 10:35			Asphalt	4 inches of asphalt	3.3	3.3	
2				SM	Silty Sand (SM): Very dark greyish brown, loose, damp. 60% fine sand, 40% non-plastic fines. No odor or staining.			
3								
4	B-3-5.0 10:44			SC	Clayey Sand (SC): Very dark grey, medium dense, slightly moist. 70% fine to coarse sand, 30% moderate to non-plastic fines. No odor or staining.	4.3	4.3	
5								
6								
7	B-3-10.0 10:48			CL	Lean Clay with Sand (CL): Dark grey 5Y (6/1), soft, damp. 20% fine sand, 80% moderate to high-plastic fines. No odor or staining.	3.3	3.3	
8								
9								
10	B-3-15.0 10:52			ML	Silt (ML): Very dark grey 5Y (3/1), soft, moist. 10% fine sand, 90% low to moderate-plastic fines. No odor or staining.	3.9	3.9	
11								
12								
13				MH	Elastic Silt (MH): Dark grey 5Y (4/1), soft, moist. 10% fine sand, 90% moderate-plastic fines. No odor or staining.			
14								
15								
16								
17								
18								
19								



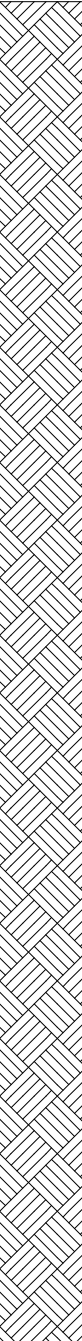

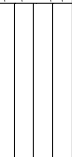
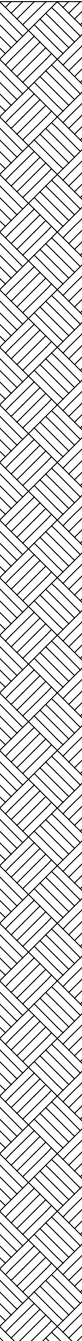

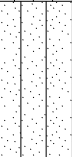
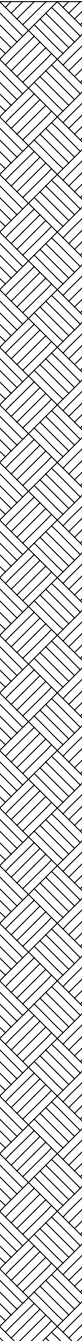


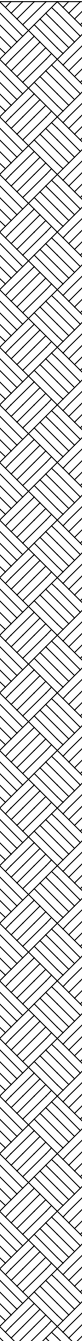


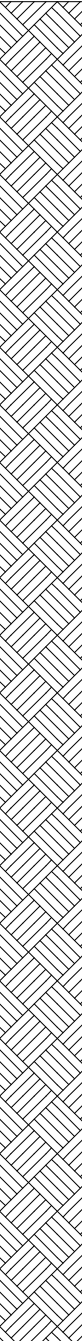
# Boring Log

<b>Project Number: 2047.15</b>	<b>Boring No.: B-3</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/30/18</b>	<b>Date Completed: 01/30/18</b>

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-3-20.0 10:57	X			Elastic Silt (MH): Dark grey 5Y (4/1), soft, moist. 10% fine sand, 90% moderate-plastic fines. No odor or staining.		2.5	
22								
23					First water observed during drilling = 22.85' bgs	▽		
24				MH	Static water level after groundwater sampling = 23.52' bgs	▼		
25	B-3-25.0 11:00	X					2.7	
26		X						
27								
28				SP	Poorly Graded Sand (SP): Dark olive gray 5Y (3/2), loose, moist to wet. 95% fine to coarse sand, 5% moderate-plastic fines. No odor or staining.			
29								
30	B-3-30.0 11:12	X			Total Depth = 30.0 feet		0.1	
31		X						
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

# Boring Log

Project Number: 2047.15		Boring No.: B-4	
Project Name: Holland 3rd & Fairfax		Logged by: G. Baader	
Location: 6300 West 3rd St. Los Angeles		Date Started: 01/31/18	Date Completed: 01/31/18
Drilling Contractor: BC2		Total Depth (ft bgs): 30.0	Depth to Water (ft bgs): 22.12
Drilling Method: Direct Push		Borehole Dia. (in): 2.25	Surface Elevation (ft MSL):
Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Collected groundwater sample B-4 @ 10:25 in temporary well. Temporary soil vapor probe B-4-15.0 constructed. Boring abandoned with hydrated bentonite.			

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B-4-1.0 09:35			Asphalt	4 inches of asphalt	18.5	14.2	
2				SP	Poorly Graded Sand (SP): Black 5Y (7.5/1), loose, moist. 95% fine to coarse sand, trace of gravel. 5% moderate-plastic fines. Very faint petroleum odor, no staining.			
3				ML	Silt (ML): Very dark grey 5Y (3/1), medium stiff, moist. 30%- very fine to coarse sand with trace gravels. 70%+ low to moderate-plastic fines. No odor or staining.			
4	B-4-5.0 09:46			ML		7.3	38.4	
5								
6								
7	B-4-10.0 09:50			SM	Silty Sand (SM): Dark olive gray 5Y (3/2), loose, damp. 70% fine to very coarse sand, 10% fine subangular gravel, 20% moderate to non-plastic fines. No odor or staining.	38.4		
8								
9								
10	B-4-15.0 09:55			SP	Poorly Graded Sand (SP): Dark greyish brown 10Y (4/2), loose, moist. 95% fine to coarse sand, trace of gravel. 5% moderate-plastic fines. Moderate petroleum odor, no staining.			
11								
12								
13				SM	Silty Sand (SM): Olive brown 2.5Y (4/3), loose to medium stiff, damp. 60% very fine to fine sand, 40% non-plastic fines. No odor or staining.			
14								
15								
16								
17								
18								
19								




















# Boring Log

<b>Project Number: 2047.15</b>	<b>Boring No.: B-4</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/31/18</b>	<b>Date Completed: 01/31/18</b>

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-4-20.0 10:00	X		SM	Silty Sand (SM): Olive brown 2.5Y (4/3), loose to medium stiff, damp. 60% very fine to fine sand, 40% non-plastic fines. No odor or staining.		15.5	
22					First water observed during drilling = 22.12' bgs Static water level after groundwater sampling = 22.5' bgs	▽		
23				MH	Elastic Silt with Sand (MH): Olive grey 5Y (5/2), soft, moist. 20% fine sand, 80% non to moderate-plastic fines. No odor or staining.			
24								
25	B-4-25.0 10:05	X		MH			11.4	
26		X						
27								
28				SM	Silty Sand (SM): Dark olive 5Y (3/2), loose to medium dense, wet. 65% fine sand, 35% non-plastic fines. No odor or staining.			
29								
30	B-4-30.0 10:09	X			Total Depth = 30.0 feet		5.6	
31		X						
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

# Boring Log

Project Number: 2047.15		Boring No.: B-5	
Project Name: Holland 3rd & Fairfax		Logged by: G. Baader	
Location: 6300 West 3rd St. Los Angeles		Date Started: 01/30/18	Date Completed: 01/30/18
Drilling Contractor: BC2		Total Depth (ft bgs): 30.0	Depth to Water (ft bgs): NA
Drilling Method: Direct Push		Borehole Dia. (in): 2.25	Surface Elevation (ft MSL):
Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Boring abandoned with neat cement grout containing 3% bentonite powder. Groundwater not encountered.			

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B-5-1.0 07:31	X		Asphalt	4 inches of asphalt			
2		X		SC	Clayey sand (SC): Black 10YR (7/1), medium dense, slightly moist. 70% fine to coarse sand, trace of gravel. 30% moderate to non-plastic fines. Moderate hydrocarbon odor, no discoloration or staining.		0.8	
3		X						
4		X						
5	B-5-5.0 07:50	X			At 5.0' no odor or staining		4.1	
6		X						
7		X						
8		X		CL	Lean Clay (CL): Very dark grey 5Y (3/1), soft, damp. 5% fine sand, 95% moderate to high-plastic fines. No odor or staining.			
9		X						
10	B-5-10.0 07:55	X					2.7	
11		X						
12		X						
13		X						
14		X						
15	B-5-15.0 07:58	X		SC	Increasing to 10% fine sand and moist at 15.0'		10.1	
16		X						
17		X						
18		X						
19		X			Clayey sand (SC): Very dark grey 5Y (3/1), medium dense, slightly moist. 70% fine sand, 5% fine gravel, 25% moderate to non-plastic fines. No odor or staining.			



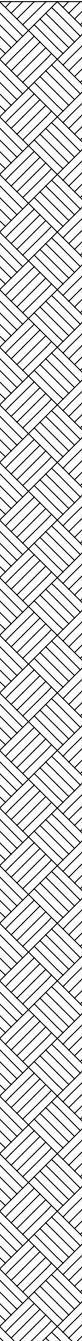


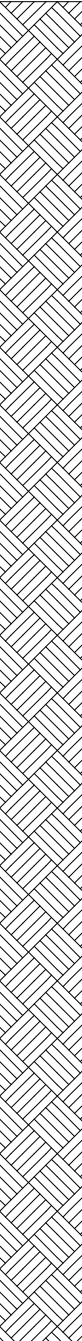

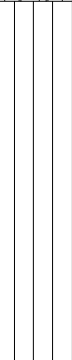
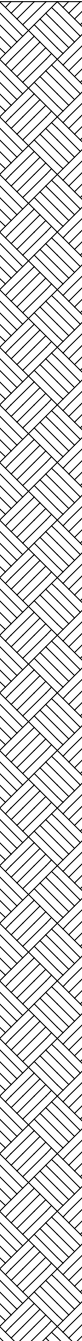


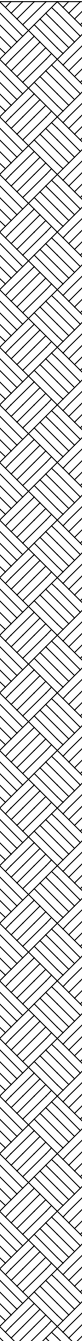

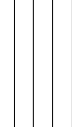
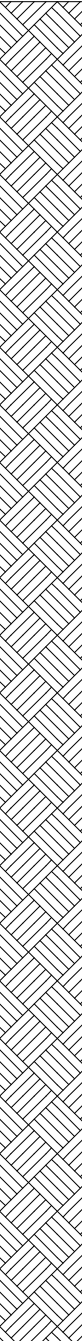
# Boring Log

<b>Project Number: 2047.15</b>	<b>Boring No.: B-5</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/30/18</b>	<b>Date Completed: 01/30/18</b>

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-5-20.0 08:03	X		SC			2.1	
22					Lean Clay with Sand (CL): Dark yellowish brown 10YR (4/6), medium dense, slightly moist. 15% fine sand, 85% moderate to high-plastic fines. No odor or staining.			
23								
24								
25	B-5-25.0 08:10	X		CL	Color change to Dark yellowish brown 10YR (4/4) at 25.0'		1.1	
26		X						
27								
28								
29								
30	B-5-30.0 08:23	X			Total Depth = 30.0 feet		1.0	
31		X						
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

# Boring Log


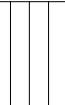




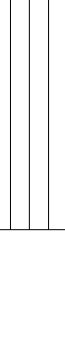

Project Number: 2047.15		Boring No.: B-6	
Project Name: Holland 3rd & Fairfax		Logged by: G. Baader	
Location: 6300 West 3rd St. Los Angeles		Date Started: 01/29/18	Date Completed: 01/29/18
Drilling Contractor: BC2		Total Depth (ft bgs): 30.0	Depth to Water (ft bgs): NA
Drilling Method: Direct Push		Borehole Dia. (in): 2.25	Surface Elevation (ft MSL):
Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Temporary soil vapor probe B-6-10.0 constructed. Boring abandoned with hydrated bentonite. Groundwater not encountered.			

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B-6-1.0 15:37			Asphalt	4 inches of asphalt	5.6	5.6	
2				SP	Poorly Graded Sand (SP): Greenish gray 2Gley (5/1), loose, dry. 95% fine to very coarse sand. 5% moderate-plastic fines. No odor or staining.			
3								
4	B-6-5.0 15:45			SM	Silty Sand (SM): Dark grayish brown 2.5Y (4/2), loose, slightly moist. 70% very fine to medium sand, 10% fine subangular gravel, 20% moderate to non-plastic fines. No odor or staining.	8.9	8.9	
5								
6								
7	B-6-10.0 15:51			ML	Sandy Silt (ML): Light grey 2.5Y (7/1), soft, slightly moist. 30% very fine to coarse sand, 70% low to moderate-plastic fines. No odor or staining. Mottled appearance.	10.2	10.2	
8								
9								
10	B-6-15.0 15:56			CL	Lean Clay (CL): Light grey 10YR (7/1), medium stiff, damp. 5% fine sand, 95% moderate to high-plastic fines. No odor or staining. Mottled appearance.	7.4	7.4	
11								
12								
13				ML	Sandy Silt (ML): Light grey 2.5Y (7/1), very stiff, slightly moist. 30% very fine to coarse sand, 70% low to moderate-plastic fines. No odor or staining. Mottled appearance.			
14								
15								
16								
17								
18								
19								




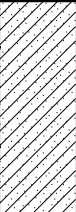
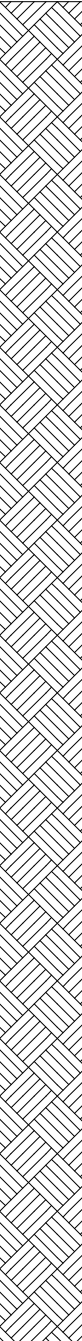

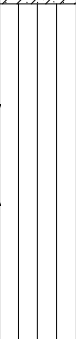
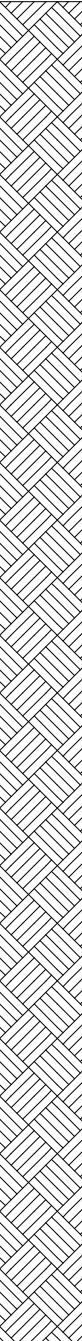

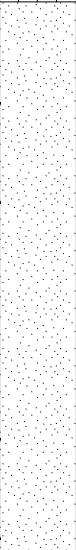
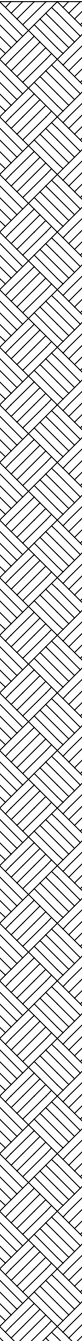

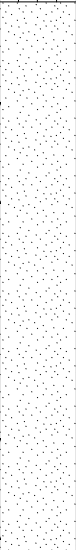
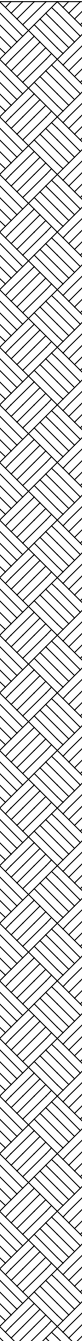
# Boring Log

<b>Project Number: 2047.15</b>	<b>Boring No.: B-6</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/29/18</b>	<b>Date Completed: 01/29/18</b>

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-6-20.0 16:01			ML	Sandy Silt (ML): Light grey 2.5Y (7/1), very stiff, slightly moist. 30% very fine to coarse sand, 70% low to moderate-plastic fines. No odor or staining. Mottled appearance.	5.0	5.0	
22				CL	Lean Clay (CL): Dary grey 10YR (4/1), soft, slightly moist. 15% fine sand, 85% moderate to high-plastic fines. No odor or staining.			
23								
24								
25								
26	B-6-25.0 16:06			CL				
27								
28								
29								
30	B-6-30.0 16:15			ML	Sandy Silt (ML): Greenish grey 2Gley (5/1), soft, slightly moist. 30% very fine to medium sand, 70% low to moderate-plastic fines. No odor or staining.	5.0	5.0	
31				ML				
32								
33								
34								
35					Total Depth = 30.0 feet			
36								
37								
38								
39								
40								
41								
42								

# Boring Log

Project Number: 2047.15		Boring No.: B-7	
Project Name: Holland 3rd & Fairfax		Logged by: G. Baader	
Location: 6300 West 3rd St. Los Angeles		Date Started: 01/30/18	Date Completed: 01/30/18
Drilling Contractor: BC2		Total Depth (ft bgs): 30.0	Depth to Water (ft bgs): NA
Drilling Method: Direct Push		Borehole Dia. (in): 2.25	Surface Elevation (ft MSL):
Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Boring abandoned with neat cement grout containing 3% bentonite powder. Groundwater not encountered.			

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B-7-1.0 14:44			Asphalt	4 inches of asphalt		5.9	
2				SC	Clayey sand (SC): Black 10YR (2/1), medium dense, slightly moist. 60% very fine to coarse sand, 40% moderate to high-plastic fines. No odor or staining.			
3								
4	B-7-5.0 14:50			ML	Sandy Silt (ML): Olive gray 5Y (4/2), soft, slightly moist. 30% fine sand, 70% non to moderate-plastic fines. No odor or staining.		2.2	
5								
6								
7	B-7-10.0 14:53			SP	Poorly Graded Sand (SP): Very dark gray 5Y (3/1), slightly moist, loose. 80% fine to coarse sand, 20% moderate-plastic fines. No odor or staining.		2.8	
8								
9								
10	B-7-15.0 14:56			SP	Increasing to 90% sand at 15.0'		3.4	
11								
12								
13								
14								
15								
16								
17								
18								
19								

# Boring Log

<b>Project Number: 2047.15</b>	<b>Boring No.: B-7</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/30/18</b>	<b>Date Completed: 01/30/18</b>

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill		
21	B-7-20.0 14:59			SP	Poorly Graded Sand (SP): Very dark gray 5Y (3/1), slightly moist, loose. 80% fine to coarse sand, 20% moderate-plastic fines. No odor or staining.		3.2			
22				CL	Lean Clay with Sand (CL): Dark yellowish brown 10YR (5/4), medium stiff, slightly moist. 20% fine sand, 80% moderate to high-plastic fines. No odor or staining.					
23										
24										
25	B-7-25.0 15:04			CL			2.4			
26										
27			MH	Elastic Silt (MH): Yellowish brown 10YR (5/6), medium stiff, slightly moist. 25% very fine to medium sand, 75% low to moderate-plastic fines. No odor or staining.						
28										
29										
30	B-7-30.0 15:07					Total Depth = 30.0 feet		3.4		
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										



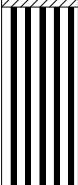
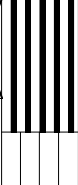
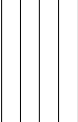
# Boring Log

Project Number: 2047.15		Boring No.: B-8	
Project Name: Holland 3rd & Fairfax		Logged by: G. Baader	
Location: 6300 West 3rd St. Los Angeles		Date Started: 01/31/18	Date Completed: 01/31/18
Drilling Contractor: BC2		Total Depth (ft bgs): 30.0	Depth to Water (ft bgs): NA
Drilling Method: Direct Push		Borehole Dia. (in): 2.25	Surface Elevation (ft MSL):
Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Boring abandoned with neat cement grout containing 3% bentonite powder. Groundwater not encountered.			

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B-8-1.0 07:25			Asphalt	4 inches of asphalt			
2					Lean Clay with Sand (CL): Dark brown 7.5YR (3/3), medium stiff, slightly moist. 20% very fine to coarse sand, 80% moderate to high-plastic fines. No odor or staining.		0.3	
3								
4				CL				
5	B-8-5.0 07:28				Moderate to strong petroleum odor at 5.0'		80	
6								
7								
8								
9					Clayey sand (SC): Olive gray 5Y (4/2), loose to medium dense, slightly moist. 60% very fine to medium sand, 40% moderate to high-plastic fines. Moderate hydrocarbon odor, no discoloration or staining.			
10	B-8-10.0 07:33						31.1	
11								
12								
13				SC				
14								
15	B-8-15.0 07:39				Color change to Olive gray 5Y (5/2) with faint hydrocarbon odor at 15.0'		34.2	
16								
17								
18								
19				CL	Lean Clay (CL): Olive gray 5Y (5/2), slightly moist, very stiff. 10% fine sand, 90% moderate-plasticity fines. No odor or staining.			



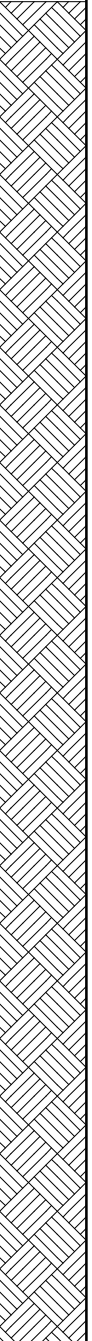
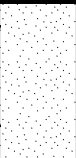



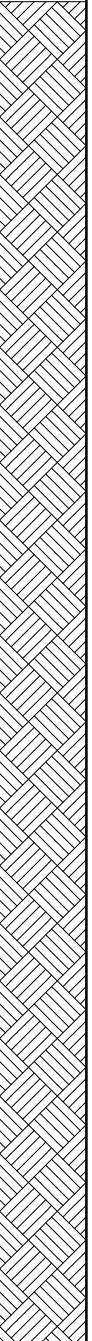


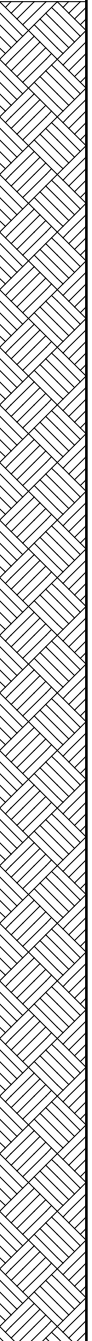


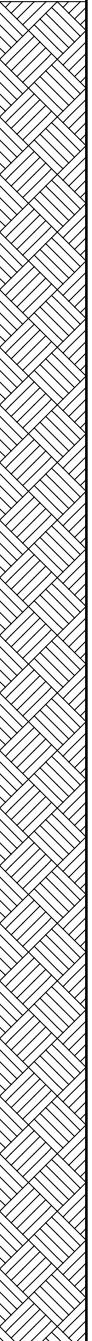
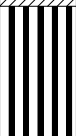
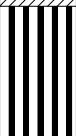
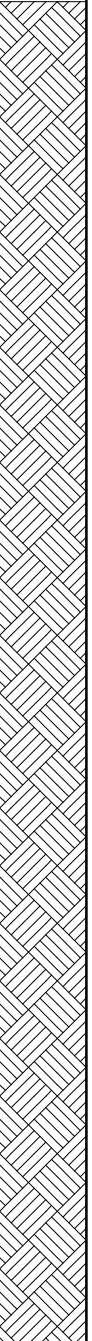
# Boring Log

<b>Project Number: 2047.15</b>	<b>Boring No.: B-8</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/31/18</b>	<b>Date Completed: 01/31/18</b>

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-8-20.0 07:44	X		CL	Lean Clay (CL): Olive gray 5Y (5/2), slightly moist, very stiff. 10% fine sand, 90% moderate-plasticity fines. No odor or staining.		3.5	
22				MH	Elastic Silt (MH): Yellowish brown 10YR (5/6), very stiff, slightly moist. 15% fine sand, 85% moderate to high-plastic fines. No odor or staining.		5.0	
23								
24								
25	B-8-25.0 07:50	X		MH				
26		X						
27				ML	Sandy Silt (ML): Yellowish brown 10YR (5/6), very stiff, slightly moist. 30% very fine to medium sand, 70% non to moderate-plastic fines. No odor or staining.			
28								
29								
30	B-8-30.0 07:54	X			Total Depth = 30.0 feet		7.8	
31		X						
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								



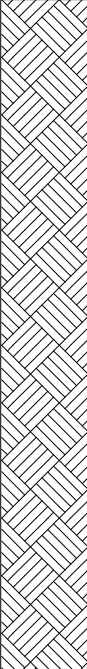


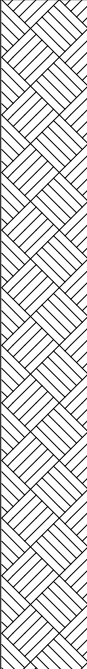

# Boring Log

Project Number: 2047.15		Boring No.: B-9	
Project Name: Holland 3rd & Fairfax		Logged by: G. Baader	
Location: 6300 West 3rd St. Los Angeles		Date Started: 01/30/18	Date Completed: 01/30/18
Drilling Contractor: BC2		Total Depth (ft bgs): 30.0	Depth to Water (ft bgs): NA
Drilling Method: Direct Push		Borehole Dia. (in): 2.25	Surface Elevation (ft MSL):
Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Boring abandoned with neat cement grout containing 3% bentonite powder. Groundwater not encountered.			

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B-9-1.0 16:30			Asphalt	8 inches of asphalt		1.4	
2				SP	Poorly Graded Sand (SP): Dark grey 5Y (4/1), loose, slightly moist. 95% fine to very coarse sand, 5% non to moderate-plastic fines. No odor or staining.			
3				SC	Clayey sand (SC): Very dark grey 5Y (3/1), loose to medium dense, slightly moist. 60% very fine to medium sand, 40% moderate to high-plastic fines. No odor or staining.			
4	B-9-5.0 16:40			SC	Lean Clay with Sand (CL): Gray 5Y (5/1), medium stiff, slightly moist. 20% very fine to medium sand, 80% moderate to high-plastic fines. No odor or staining.		3.0	
5								
6								
7	B-9-10.0 16:43			CL	Lean Clay with Sand (CL): Gray 5Y (5/1), medium stiff, slightly moist. 20% very fine to medium sand, 80% moderate to high-plastic fines. No odor or staining.		3.2	
8								
9								
10	B-9-15.0 16:50			CL	Lean Clay with Sand (CL): Gray 5Y (5/1), medium stiff, slightly moist. 20% very fine to medium sand, 80% moderate to high-plastic fines. No odor or staining.		2.2	
11								
12								
13				MH	Elastic Silt (MH): Olive gray 5Y (4/2), soft, slightly moist. 5% fine sand, 95% moderate to non-plastic fines. No odor or staining.			
14								
15								
16								
17								
18								
19								



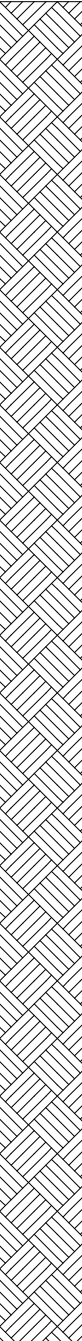


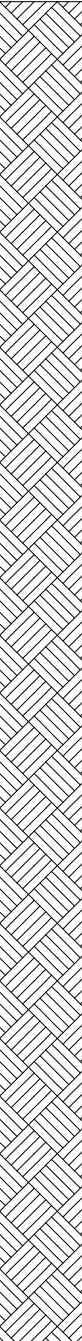


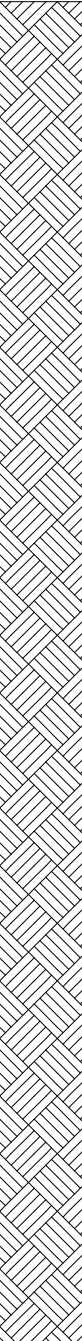


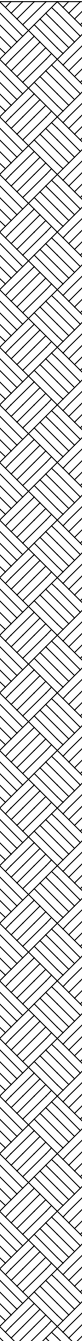

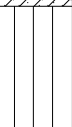
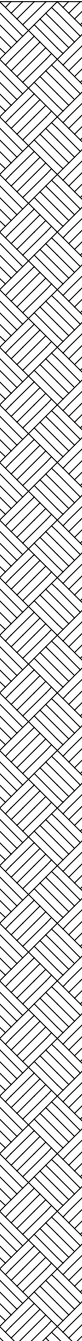
# Boring Log

<b>Project Number: 2047.15</b>	<b>Boring No.: B-9</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/30/18</b>	<b>Date Completed: 01/30/18</b>

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-9-20.0 16:57			MH	Elastic Silt (MH): Olive gray 5Y (4/2), soft, slightly moist. 5% fine sand, 95% moderate to non-plastic fines. No odor or staining.		1.9	
22								
23								
24								
25	B-9-25.0 17:05			CL	Lean Clay with Sand (CL): Olive gray 5YR (4/2), medium stiff, slightly moist. 30% fine sand, 70% moderate to high-plastic fines. No odor or staining.		2.6	
26								
27								
28								
29								
30	B-9-30.0 17:08				Total Depth = 30.0 feet		2.1	
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

# Boring Log

Project Number: 2047.15		Boring No.: B-10	
Project Name: Holland 3rd & Fairfax		Logged by: G. Baader	
Location: 6300 West 3rd St. Los Angeles		Date Started: 01/31/18	Date Completed: 01/31/18
Drilling Contractor: BC2		Total Depth (ft bgs): 30.0	Depth to Water (ft bgs): NA
Drilling Method: Direct Push		Borehole Dia. (in): 2.25	Surface Elevation (ft MSL):
Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Boring abandoned with neat cement grout containing 3% bentonite powder. Groundwater not encountered.			

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B-10-1.0 13:12			Asphalt	4 inches of asphalt	5.4	9.0	
2				SP	Poorly Graded Sand (SP): Dark greyish brown 2.5Y (4/2), loose, slightly moist. 95% fine sand, trace gravel, 5% non to moderate-plastic fines. No odor or staining.			
3								
4	B-10-5.0 13:15			SM	Silty sand (SM): Very dark greyish brown 2.5Y (3/2), loose to medium dense, slightly moist. 60% very fine to medium sand, 40% moderate to non-plastic fines. No odor or staining.	9.5	10.5	
5								
6								
7	B-10-10.0 13:18			MH	Elastic Silt (MH): Dark greyish brown 10YR (4/2), soft to medium stiff, slightly moist. 5% very fine to medium sand, 95% moderate to high-plastic fines. No odor or staining.	10.5	10.5	
8								
9								
10	B-10-15.0 13:20			SC	Clayey Sand (SC): Very dark grayish brown 10YR (3/2), soft to medium-stiff, slightly moist. 60% fine sand, 40% moderate to high-plastic fines. No odor or staining.	10.5	10.5	
11								
12								
13				ML	Silt with Sand (ML): Dark gray 5Y (4/1), medium dense, slightly moist. 40% very fine to medium sand, 60% non-plastic fines. No odor or staining.	10.5	10.5	
14								
15								

DRB-ENVIRO BORING 2047.15 3RD AND FAIRFAX.GPJ 2/22/18




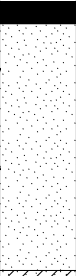
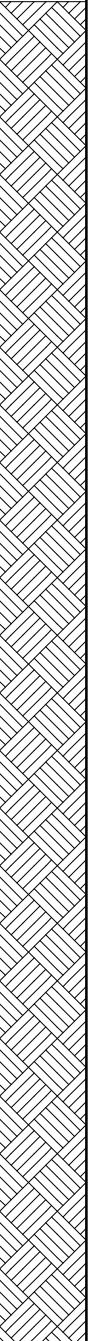


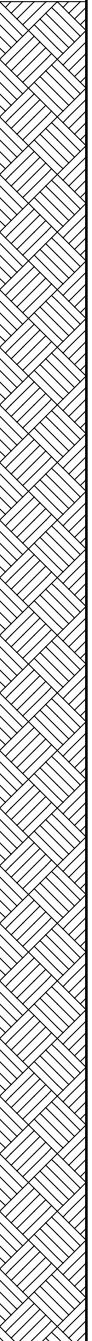


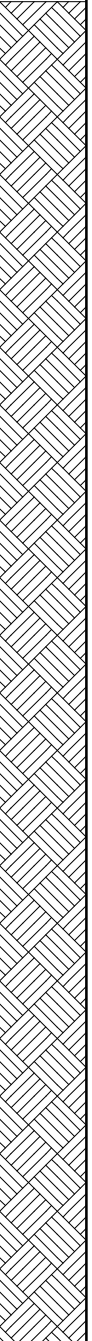


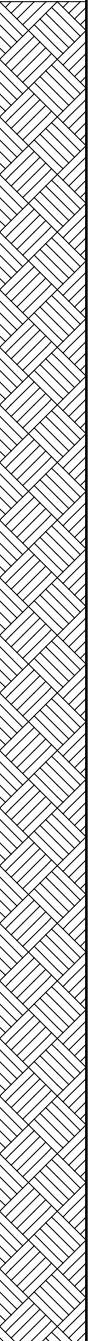
# Boring Log

<b>Project Number: 2047.15</b>	<b>Boring No.: B-10</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/31/18</b>	<b>Date Completed: 01/31/18</b>

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-10-20.0 13:24	X		ML	Silt with Sand (ML): Dark gray 5Y (4/1), medium dense, slightly moist. 40% very fine to medium sand, 60% non-plastic fines. No odor or staining.		9.7	
22								
23								
24								
25	B-10-25.0 13:28	X		MH	Elastic Silt (MH): Dark gray 10YR (4/1), stiff, slightly moist. 10% fine sand, 90% moderate-plastic fines. No odor or staining.		7.6	
26		X						
27								
28								
29								
30	B-10-30.0 13:32	X			Total Depth = 30.0 feet		8.8	
31		X						
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

# Boring Log

Project Number: 2047.15		Boring No.: B-11	
Project Name: Holland 3rd & Fairfax		Logged by: G. Baader	
Location: 6300 West 3rd St. Los Angeles		Date Started: 01/29/18	Date Completed: 01/29/18
Drilling Contractor: BC2		Total Depth (ft bgs): 28.0	Depth to Water (ft bgs): 22.1
Drilling Method: Direct Push		Borehole Dia. (in): 2.25	Surface Elevation (ft MSL):
Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Temporary vapor well B-11-8.0 constructed in boring. Boring abandoned with hydrated bentonite.			

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B-11-1.0 10:00			Asphalt	4 inches of asphalt	14.6	14.6	
2				SP	Poorly Graded Sand (SP): Dark brown 10YR (3/3), slightly moist, loose. 95% fine sand, 5% non-plastic fines. No odor or staining.			
3								
4	B-11-5.0 10:11			SC	Clayey Sand (SC): Medium brown 10YR (5/3), medium dense, slightly moist. 80% fine sand, 20% moderate to high-plastic fines. No odor or staining.	5.7	5.7	
5								
6								
7	B-11-10.0 10:15			CL	Lean Clay with Sand (CL): Greenish gray Gley (6/1) to brown 7.5YR (2/2), medium-stiff to stiff, slightly moist to moist. 30% fine sand, 70% non to moderate-plastic fines. No odor or staining.	25.3	25.3	
8								
9								
10	B-11-15.0 10:20					14.6	14.6	
11								
12								
13								
14								
15								
16								
17								
18					Mottled appearance at 19.0'			
19								

# Boring Log



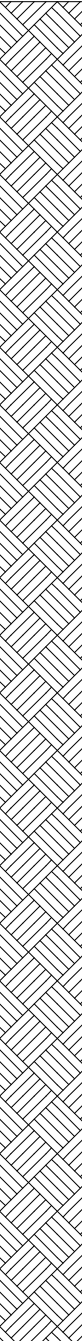


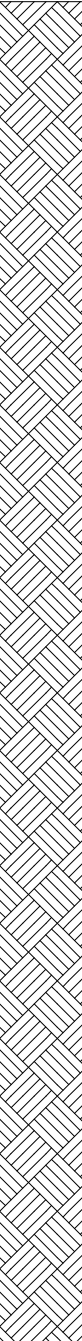


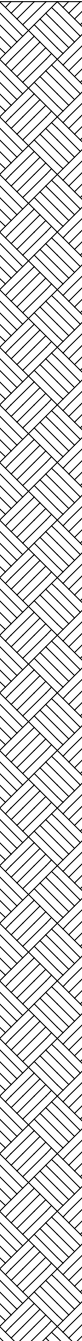


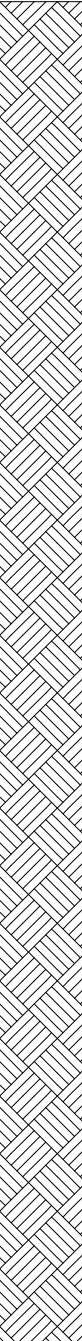


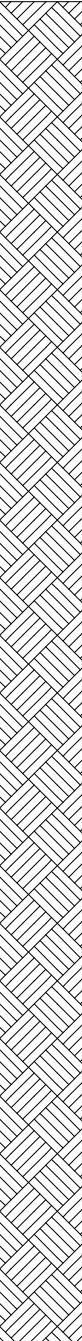


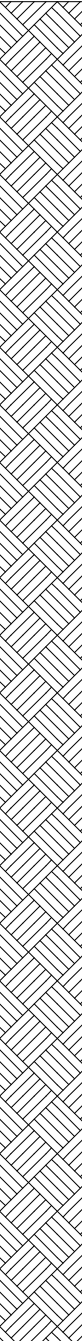


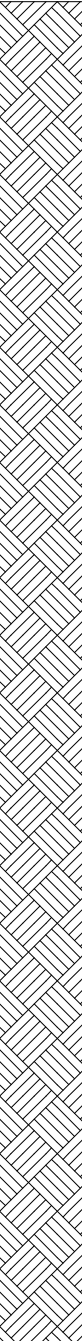
<b>Project Number: 2047.15</b>	<b>Boring No.: B-11</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/29/18</b>	<b>Date Completed: 01/29/18</b>

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-11-20.0 10:25	X			Lean Clay with Sand (CL): Greenish gray Gley (6/1) to brown 7.5YR (2/2), medium-stiff to stiff, slightly moist to moist. 30% fine sand, 70% non to moderate-plastic fines. No odor or staining.		9.4	
22					First water observed during drilling = 21.1' bgs	▼		
23								
24				CL				
25	B-11-25.0 10:30	X					8.4	
26		X						
27								
28					Total Depth = 28.0 feet			
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

# Boring Log


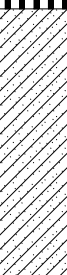












<b>Project Number: 2047.15</b>	<b>Boring No.: B-12</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/31/18</b>	<b>Date Completed: 01/31/18</b>
<b>Drilling Contractor: BC2</b>	<b>Total Depth (ft bgs): 30.0</b>	<b>Depth to Water (ft bgs): NA</b>
<b>Drilling Method: Direct Push</b>	<b>Borehole Dia. (in): 2.25</b>	<b>Surface Elevation (ft MSL):</b>

Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Temporary soil vapor probe B-12-15.0 constructed in boring. Boring abandoned with hydrated bentonite. Groundwater not encountered.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B-12-1.0 08:10			Asphalt	4 inches of asphalt	40.5	9.1	
2				SM	Silty Sand (SM): Black 5Y (2.5/1), loose, slightly moist. 60% very fine to medium sand, trace gravel, 40% moderate to non-plastic fines. Moderate hydrocarbon odor, no discoloration or staining.			
3								
4	B-12-5.0 08:16			SC	Clayey Sand (SC): Dark olive gray 5Y (3/2), medium dense, slightly moist. 60% very fine to medium sand, 40% moderate to high-plastic fines. No odor or staining.	10.2	11.2	
5								
6								
7	B-12-10.0 08:20			SP	Poorly Graded Sand (SP): Dark greyish brown 2.5Y (4/2), loose, slightly moist. 95% very fine to coarse sand, trace gravel, 5% non-plastic fines. No odor or staining.	11.2		
8								
9								
10	B-12-15.0 08:25			MH	Elastic Silt (MH): Gray 5Y (5/2), stiff, slightly moist. 15% fine sand, 85% moderate to high-plastic fines. No odor or staining.			
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								

# Boring Log

<b>Project Number: 2047.15</b>	<b>Boring No.: B-12</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/31/18</b>	<b>Date Completed: 01/31/18</b>

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-12-20.0 08:28	X		MH	Elastic Silt (MH): Gray 5Y (5/2), stiff, slightly moist. 15% fine sand, 85% moderate to high-plastic fines. No odor or staining.		6.2	
22								
23								
24								
25	B-12-25.0 08:33	X		SC	Clayey Sand (SC): Dark olive gray 5Y (3/2): medium stiff, slightly moist. 60% fine sand, 40% moderate to high-plasticity fines. No odor or staining.		10.3	
26		X						
27								
28								
29								
30	B-12-30.0 08:37	X			Total Depth = 30.0 feet		6.7	
31		X						
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

# Boring Log

<b>Project Number: 2047.15</b>	<b>Boring No.: B-13</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/30/18</b>	<b>Date Completed: 01/30/18</b>
<b>Drilling Contractor: BC2</b>	<b>Total Depth (ft bgs): 25.0</b>	<b>Depth to Water (ft bgs): 19.67</b>
<b>Drilling Method: Direct Push</b>	<b>Borehole Dia. (in): 2.25</b>	<b>Surface Elevation (ft MSL):</b>



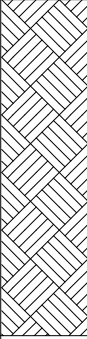



**Remarks:** Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Collected groundwater sample B-12 @ 14:03 in temporary well constructed in boring. Boring abandoned with neat cement grout containing 3% bentonite powder.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B-13-1.0 13:07			Asphalt	4 inches of asphalt			
2					Clayey Sand (SC): Very dark brown 10YR (2/2), medium dense, slightly moist. 670% fine to coarse sand, trace gravel, 40% moderate to high-plastic fines. Moderate hydrocarbon odor, no discoloration or staining.		5.3	
3								
4				SC				
5	B-13-5.0 13:15				No odor or staining at 5.0'		2.0	
6								
7								
8								
9					Silt (ML): Very dark grey 5Y (3/1), soft, slightly moist. 20% very fine to medium sand, 80% low to moderate-plastic fines. No odor or staining.			
10	B-13-10.0 13:18			ML			2.6	
11								
12								
13					Poorly Graded Sand (SP): Dark gray 5Y (4/1), loose, slightly moist. 95% fine to coarse sand, 5% moderate-plastic fines. No odor or staining.			
14								
15	B-13-15.0 13:22			SP			8.1	
16								
17								
18								
19								
					First water observed during drilling = 19.67' bgs			

DRB-ENVIRO BORING 2047.15\_3RD AND FAIRFAX.GPJ 2/22/18

# Boring Log

<b>Project Number: 2047.15</b>	<b>Boring No.: B-13</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/30/18</b>	<b>Date Completed: 01/30/18</b>

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-13-20.0 13:27			SP	Static water level after groundwater sampling = 19.65' bgs Poorly Graded Sand (SP): Dark gray 5Y (4/1), loose, slightly moist. 95% fine to coarse sand, 5% moderate-plastic fines. No odor or staining.		3.8	
22				MH	Elastic Silt (MH): Dark grey 5Y (4/1), soft, wet. 10% fine sand, 90% moderate-plastic fines. No odor or staining.			
23	B-13-25.0 13:31						3.2	
24								
25	B-13-25.0 13:31				Total Depth = 25.0 feet		3.2	
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

# Boring Log

<b>Project Number: 2047.15</b>	<b>Boring No.: B-14</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/30/18</b>	<b>Date Completed: 01/30/18</b>
<b>Drilling Contractor: BC2</b>	<b>Total Depth (ft bgs): 30.0</b>	<b>Depth to Water (ft bgs): 23.5</b>
<b>Drilling Method: Direct Push</b>	<b>Borehole Dia. (in): 2.25</b>	<b>Surface Elevation (ft MSL):</b>

**Remarks:** Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Collected groundwater sample B-14 @ 09:50 in temporary well constructed in boring. Boring abandoned with neat cement grout containing 3% bentonite powder.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B-14-1.0 08:45			Asphalt	4 inches of asphalt			
2					Lean Clay (CL): Very dark grey 10 YR (3/1), slightly moist, very stiff. 5% fine sand, 95% moderate to high-plastic fines. Slight hydrocarbon odor, no discoloration or staining.		1.4	
3								
4				CL				
5	B-14-5.0 08:50				No odor or staining at 5.0', coarsening to 10% fine sand.		5.8	
6								
7								
8					Silty Sand (SM): Very dark gray 5YR (3/1), loose, slightly moist. 80% fine to medium sand, 20% moderate-plastic fines. No odor or staining.			
9								
10	B-14-10.0 08:59						3.1	
11								
12								
13								
14				SM				
15	B-14-15.0 09:03				Color change to dark olive gray 5YR (3/2) at 15.0', increasing to 85% fine to medium sand.		5.6	
16								
17								
18								
19								



# Boring Log



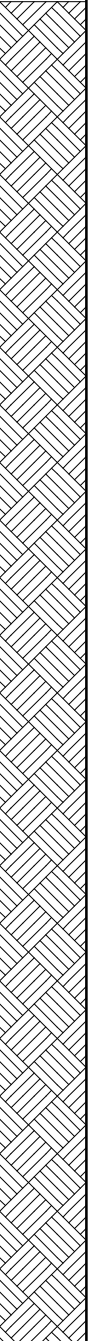

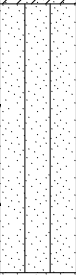
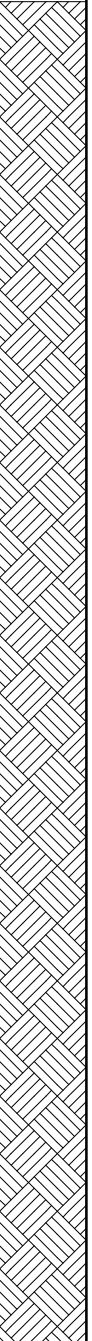

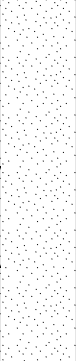
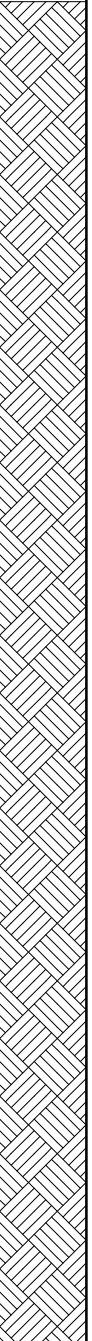


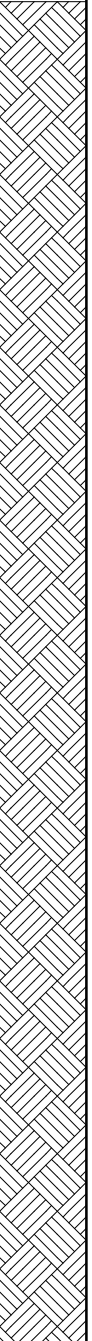
<b>Project Number: 2047.15</b>	<b>Boring No.: B-14</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/30/18</b>	<b>Date Completed: 01/30/18</b>

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-14-20.0 09:07	X			Silty Sand (SM): Very dark gray 5YR (3/1), loose, slightly moist. 80% fine to medium sand, 20% moderate-plastic fines. No odor or staining. Trace of gravel at 20.0' Static water level after groundwater sampling = 20.6' bgs	▼	3.8	
22								
23					First water observed during drilling = 23.5' bgs	▽		
24								
25	B-14-25.0 09:09	X		SM	Color change to olive gray 5Y (4/2) at 25.0', fines increasing to 40%		3.1	
26		X						
27								
28					Color change to dark gray 5Y (4/1) at 28.0', sand increasing to 70%			
29								
30	B-14-30.0 09:19	X			Total Depth = 30.0 feet		2.9	
31		X						
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

# Boring Log

<b>Project Number: 2047.15</b>	<b>Boring No.: B-15</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/31/18</b>	<b>Date Completed: 01/31/18</b>
<b>Drilling Contractor: BC2</b>	<b>Total Depth (ft bgs): 30.0</b>	<b>Depth to Water (ft bgs): NA</b>
<b>Drilling Method: Direct Push</b>	<b>Borehole Dia. (in): 2.25</b>	<b>Surface Elevation (ft MSL):</b>

Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Temporary soil vapor probe B-15-25.0 constructed in boring. Boring abandoned with hydrated bentonite. Groundwater not encountered.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
1	B-15-1.0 10:45			Asphalt	4 inches of asphalt	12.8	5.0	
2				SC	Clayey Sand (SC): Black 10YR (2/1), medium dense, slightly moist. 70% very fine to medium sand, 30% moderate to high-plastic fines. Moderate petroleum odor, no discoloration or staining.			
3								
4	B-15-5.0 10:48			SM	Silty Sand (SM): Very dark gray 2.5Y (3/1), loose, slightly moist. 60% very fine to medium sand, 40% moderate to non-plastic fines. No odor or staining.	2.5	3.1	
5								
6								
7	B-15-10.0 10:52			SP	Poorly Graded Sand (SP): Dark greyish brown 2.5Y (4/2), loose, slightly moist. 95% very fine to coarse sand, trace gravel, 5% non-plastic fines. No odor or staining.	3.1		
8								
9								
10	B-15-15.0 10:55			MH	Elastic Silt (MH): Very dark grayish brown 2.5Y (3/2), very stiff, slightly moist. 15% fine sand, 85% moderate to high-plastic fines. No odor or staining. Caliche nodules to 1/4"			
11								
12								
13								
14								
15								
16								
17								
18								
19								

# Boring Log

<b>Project Number: 2047.15</b>	<b>Boring No.: B-15</b>	
<b>Project Name: Holland 3rd &amp; Fairfax</b>	<b>Logged by: G. Baader</b>	
<b>Location: 6300 West 3rd St. Los Angeles</b>	<b>Date Started: 01/31/18</b>	<b>Date Completed: 01/31/18</b>

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-15-20.0 11:00	X			Elastic Silt (MH): Very dark grayish brown 2.5Y (3/2), very stiff, slightly moist. 15% fine sand, 85% moderate to high-plastic fines. No odor or staining. Caliche nodules to 1/4"		7.0	
22								
23								
24								
25	B-15-25.0 11:09	X		MH	Color change to yellowish brown 10YR (5/6) at 25.0', sand decreasing to 10%, some caliche nodules to 1/4"		5.7	
26		X						
27								
28					Color change to dark gray 2.5Y (4/1) with trace of gravel to 3/4" at 28.0'			
29								
30	B-15-30.0 11:15	X			Total Depth = 30.0 feet		6.2	
31		X						
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

**APPENDIX C**  
**SOIL VAPOR PROBE CONSTRUCTION DETAILS**



## Temporary Vapor Probe Construction Detail

**Project Number: 2047.15**

**Probe Identification: B-4-15.0'**

**Project Name: Holland 3rd & Fairfax**

**Location: 6300 W. 3rd Street, Los Angeles, CA**

**Installed By: BC2 Environmental**

**Drawn By: Dana R. Brown**

**Drilling Method: Direct Push**

**Date Started: 1/31/2018**

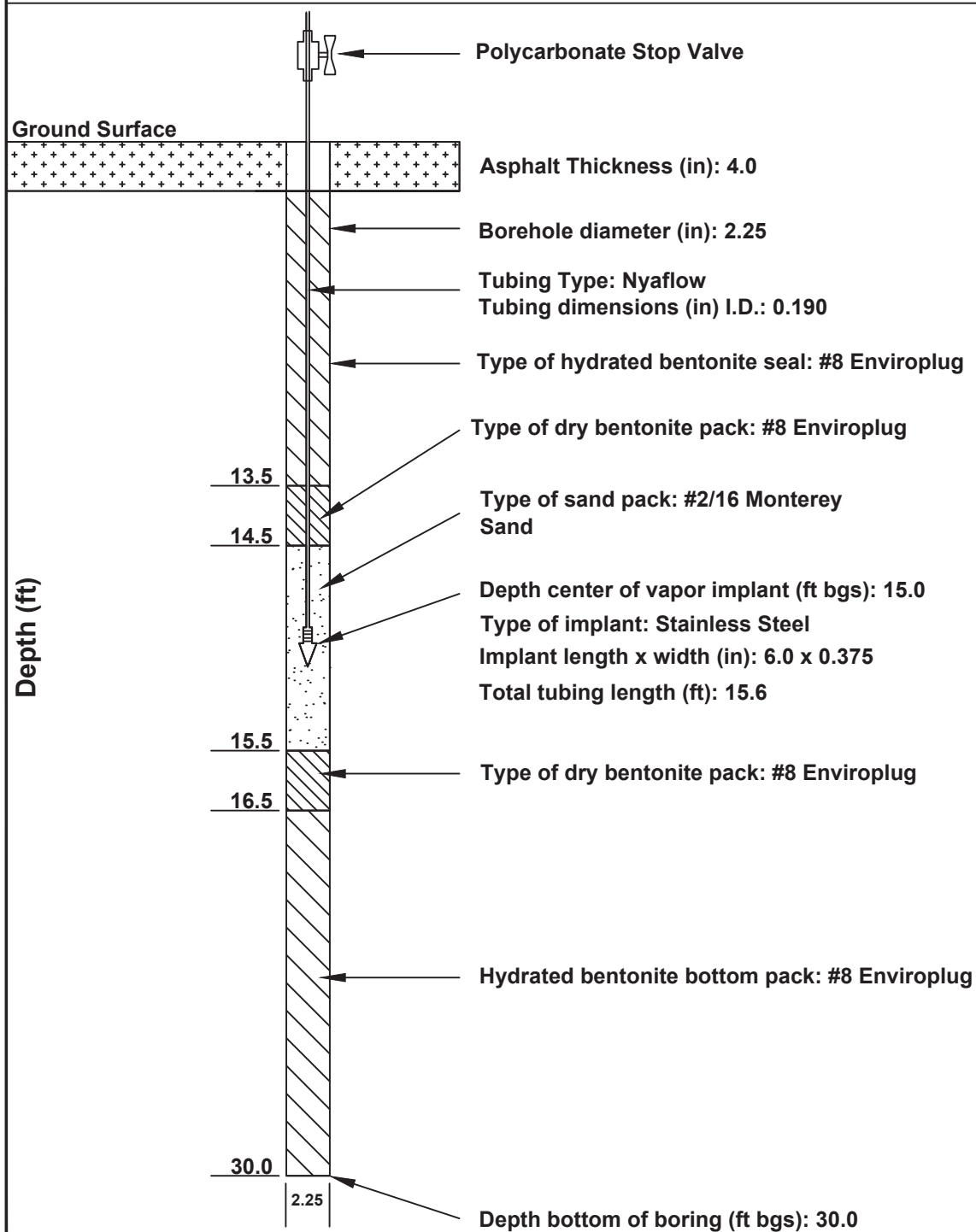
**Date Completed: 1/31/2018**

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

**Total Depth (ft): 30.0**

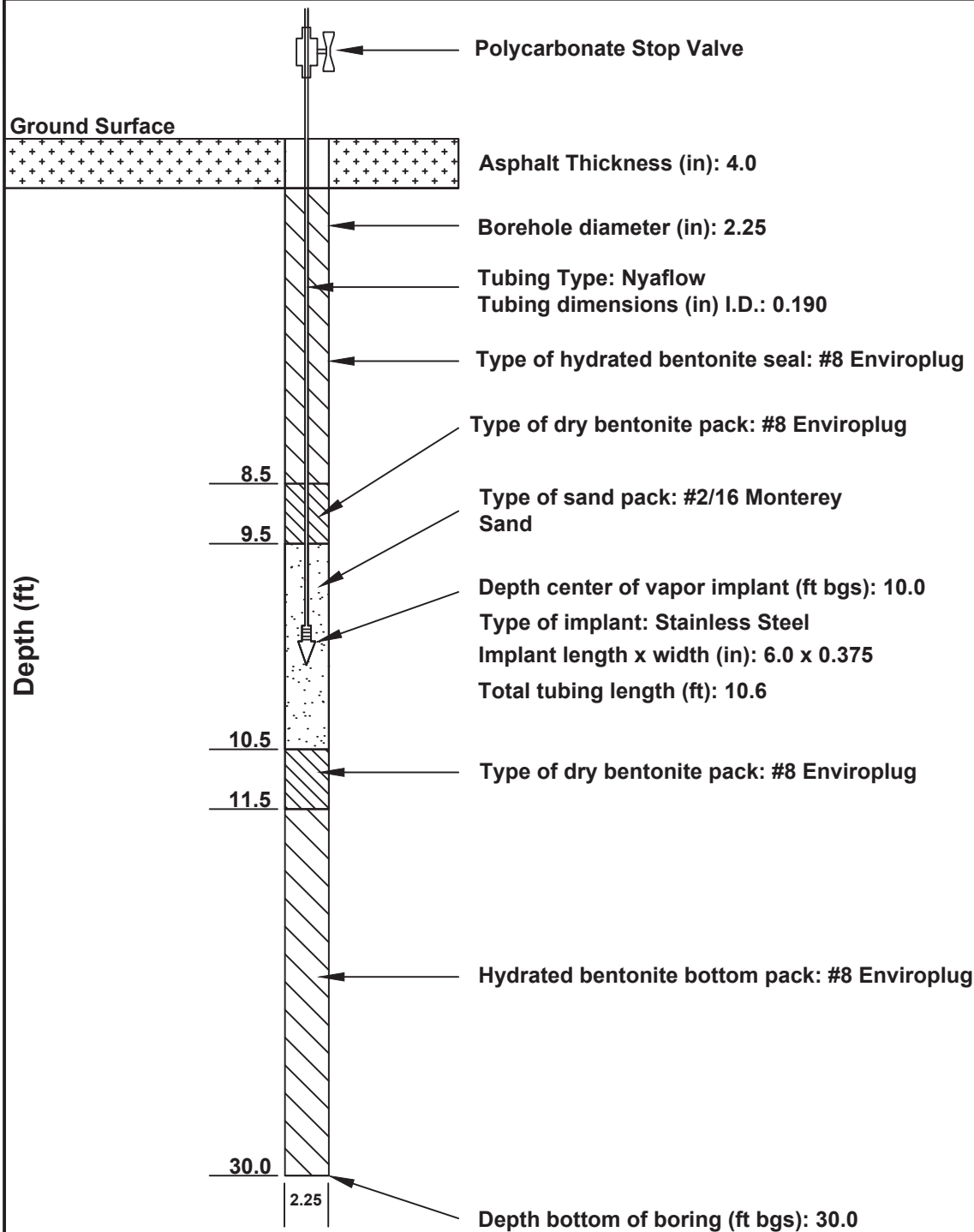
**Depth to Water (ft): 22.5**

**Remarks: Temporary vapor probe installed at 15.0' below ground surface.**



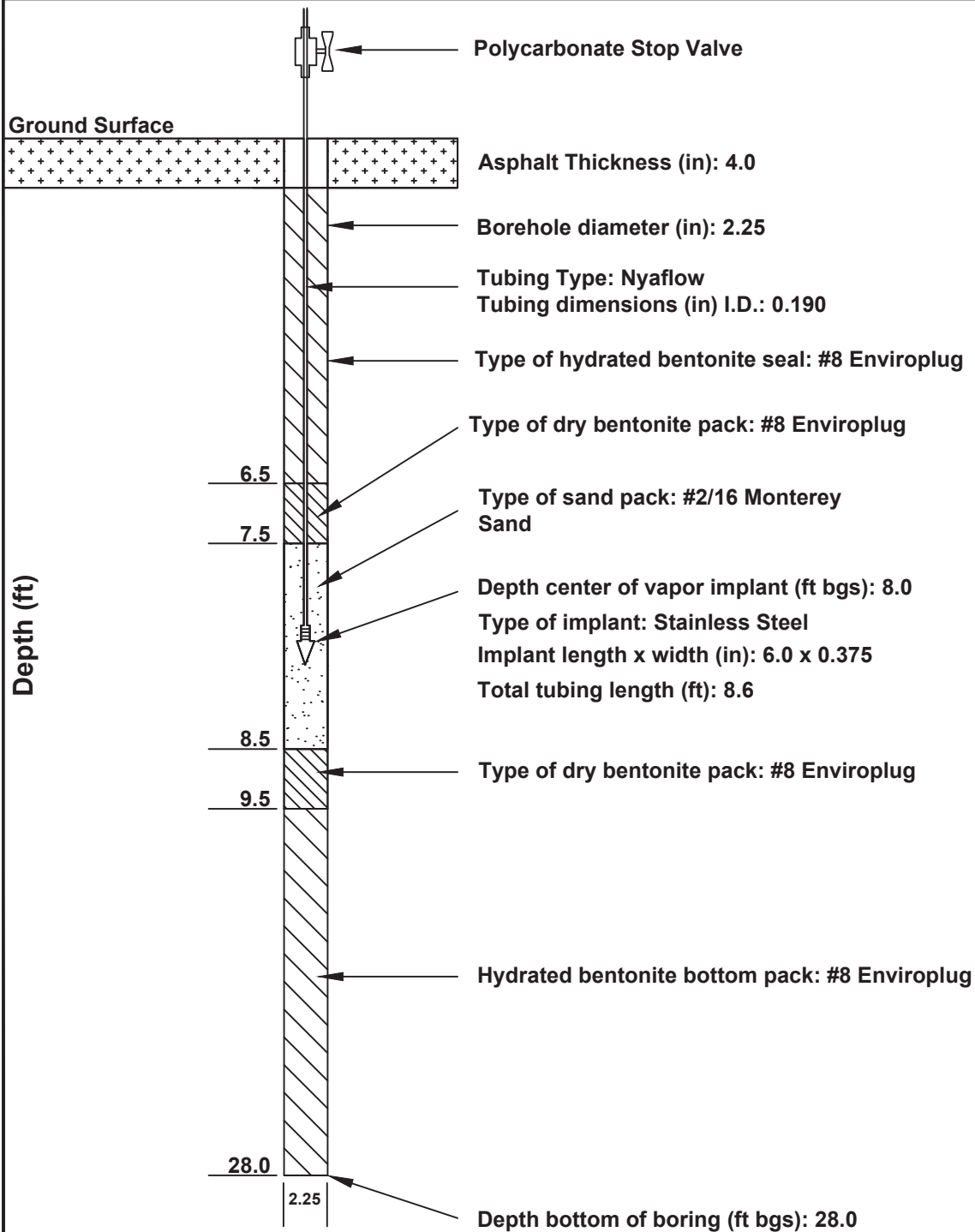
## Temporary Vapor Probe Construction Detail

Project Number: 2047.15		Probe Identification: B-6-10.0'
Project Name: Holland 3rd & Fairfax		Location: 6300 W. 3rd Street, Los Angeles, CA
Installed By: BC2 Environmental		Drawn By: Dana R. Brown
Drilling Method: Direct Push	Date Started: 1/29/2018	Date Completed: 1/29/2018
Borehole Dia. (in): 2.25	Total Depth (ft): 30.0	Depth to Water (ft): NA
Remarks: Temporary vapor probe installed at 10.0' below ground surface.		



## Temporary Vapor Probe Construction Detail

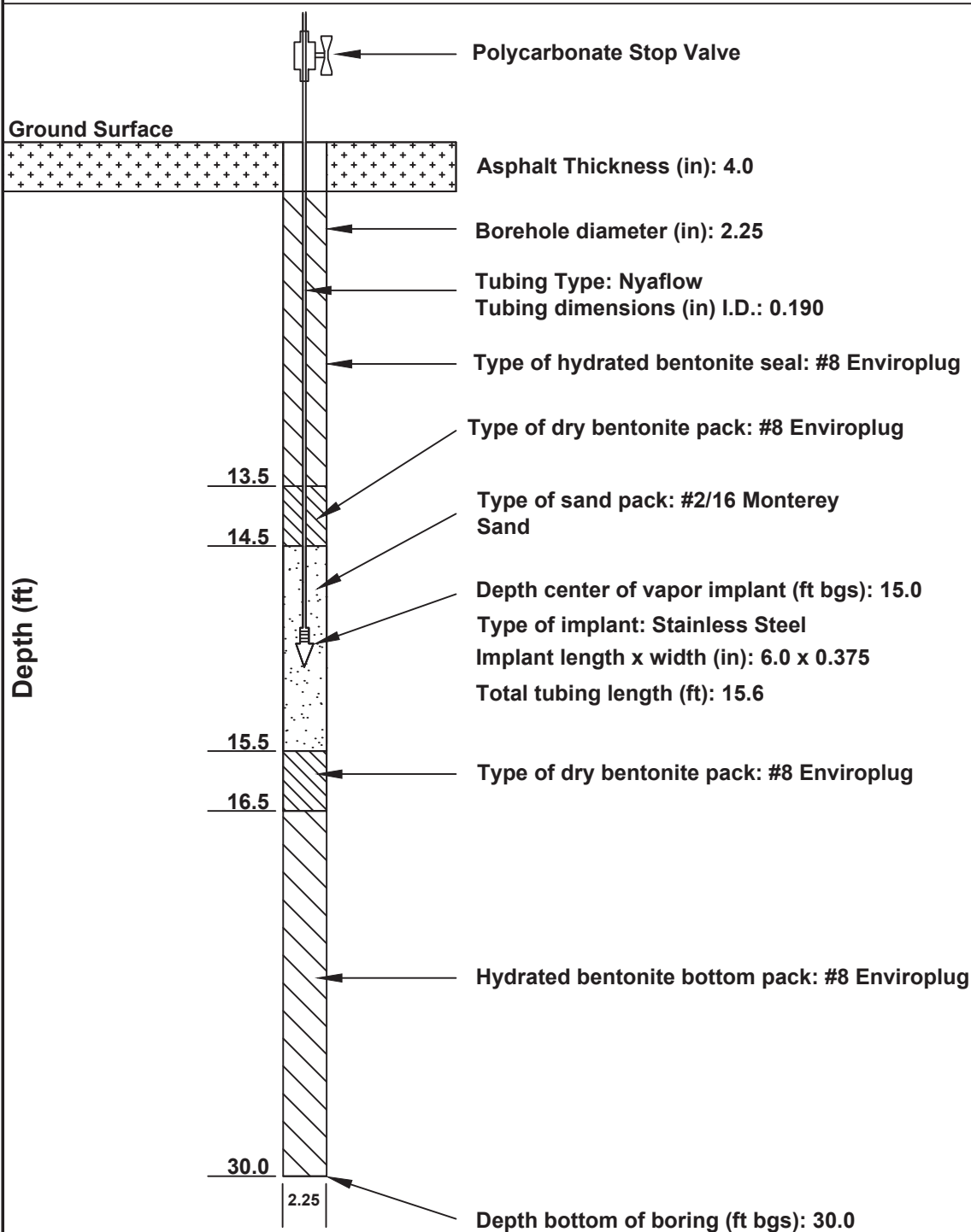
Project Number: 2047.15		Probe Identification: B-11-8.0'
Project Name: Holland 3rd & Fairfax		Location: 6300 W. 3rd Street, Los Angeles, CA
Installed By: BC2 Environmental		Drawn By: Dana R. Brown
Drilling Method: Direct Push	Date Started: 1/29/2018	Date Completed: 1/29/2018
Borehole Dia. (in): 2.25	Total Depth (ft): 28.0	Depth to Water (ft): 22.1
Remarks: Temporary vapor probe installed at 8.0' below ground surface.		



## Temporary Vapor Probe Construction Detail

Project Number: 2047.15		Probe Identification: B-12-15.0'
Project Name: Holland 3rd & Fairfax		Location: 6300 W. 3rd Street, Los Angeles, CA
Installed By: BC2 Environmental		Drawn By: Dana R. Brown
Drilling Method: Direct Push	Date Started: 1/31/2018	Date Completed: 1/31/2018
Borehole Dia. (in): 2.25	Total Depth (ft): 30.0	Depth to Water (ft): NA

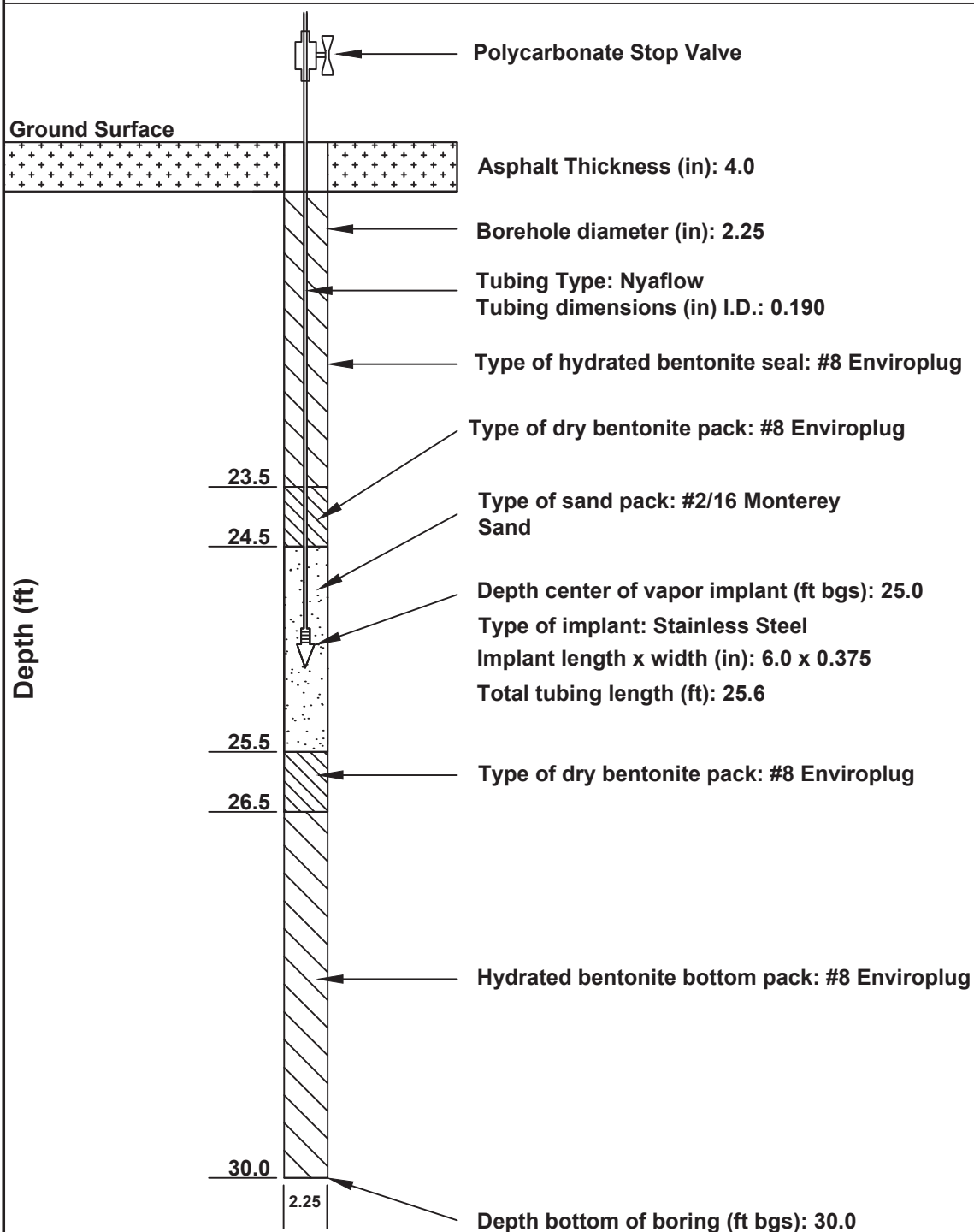
Remarks: Temporary vapor probe installed at 15.0' below ground surface.





## Temporary Vapor Probe Construction Detail

Project Number: 2047.15		Probe Identification: B-15-25.0'
Project Name: Holland 3rd & Fairfax		Location: 6300 W. 3rd Street, Los Angeles, CA
Installed By: BC2 Environmental		Drawn By: Dana R. Brown
Drilling Method: Direct Push	Date Started: 1/31/2018	Date Completed: 1/31/2018
Borehole Dia. (in): 2.25	Total Depth (ft): 30.0	Depth to Water (ft): NA
Remarks: Temporary vapor probe installed at 10.0' below ground surface.		



## **APPENDIX D**

### **LABORATORY ANALYTICAL REPORTS**





25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

07 February 2018

Derrick Willis  
Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
Laguna Hills, CA 92653  
RE: 3rd & Fairfax

Enclosed are the results of analyses for samples received by the laboratory on 01/30/18 16:02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rose Fasheh  
Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

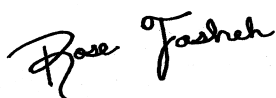
**Reported:**  
02/07/18 16:12

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-1-1.0	T180355-01	Soil	01/29/18 07:55	01/30/18 16:02
B-1- 10.0	T180355-03	Soil	01/29/18 08:19	01/30/18 16:02
B-1- 20.0	T180355-05	Soil	01/29/18 08:29	01/30/18 16:02
B-2- 1.0	T180355-08	Soil	01/29/18 13:30	01/30/18 16:02
B-2- 10.0	T180355-10	Soil	01/29/18 13:48	01/30/18 16:02
B-2- 20.0	T180355-12	Soil	01/29/18 14:00	01/30/18 16:02
B-2	T180355-14	Water	01/29/18 14:30	01/30/18 16:02
B-6- 1.0	T180355-15	Soil	01/29/18 15:37	01/30/18 16:02
B-6- 10.0	T180355-17	Soil	01/29/18 15:51	01/30/18 16:02
B-6- 20.0	T180355-19	Soil	01/29/18 16:01	01/30/18 16:02
B-11- 1.0	T180355-22	Soil	01/29/18 10:00	01/30/18 16:02
B-11- 10.0	T180355-24	Soil	01/29/18 10:15	01/30/18 16:02
B-11- 20.0	T180355-26	Soil	01/29/18 10:25	01/30/18 16:02
B-11	T180355-28	Water	01/29/18 11:50	01/30/18 16:02

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.*



Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/07/18 16:12

### DETECTIONS SUMMARY

**Sample ID:** B-1-1.0

**Laboratory ID:** T180355-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	87	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	920	10	mg/kg	EPA 8015B	
Barium	110	1.0	mg/kg	EPA 6010B	
Chromium	26	2.0	mg/kg	EPA 6010B	
Cobalt	13	2.0	mg/kg	EPA 6010B	
Copper	9.8	1.0	mg/kg	EPA 6010B	
Nickel	16	2.0	mg/kg	EPA 6010B	
Vanadium	46	5.0	mg/kg	EPA 6010B	
Zinc	51	1.0	mg/kg	EPA 6010B	
Toluene	14	1.4	ug/kg	EPA 8260B/5035	

**Sample ID:** B-1- 10.0

**Laboratory ID:** T180355-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	17	10	mg/kg	EPA 8015B	
Barium	46	1.0	mg/kg	EPA 6010B	
Chromium	22	2.0	mg/kg	EPA 6010B	
Cobalt	12	2.0	mg/kg	EPA 6010B	
Copper	11	1.0	mg/kg	EPA 6010B	
Nickel	23	2.0	mg/kg	EPA 6010B	
Vanadium	36	5.0	mg/kg	EPA 6010B	
Zinc	36	1.0	mg/kg	EPA 6010B	

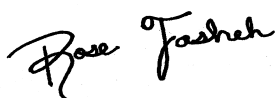
**Sample ID:** B-1- 20.0

**Laboratory ID:** T180355-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	47	1.0	mg/kg	EPA 6010B	
Chromium	17	2.0	mg/kg	EPA 6010B	
Cobalt	6.7	2.0	mg/kg	EPA 6010B	
Copper	5.4	1.0	mg/kg	EPA 6010B	
Nickel	11	2.0	mg/kg	EPA 6010B	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/07/18 16:12

**Sample ID:** B-1- 20.0

**Laboratory ID:** T180355-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Vanadium	19	5.0	mg/kg	EPA 6010B	
Zinc	16	1.0	mg/kg	EPA 6010B	

**Sample ID:** B-2- 1.0

**Laboratory ID:** T180355-08

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	260	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	860	10	mg/kg	EPA 8015B	
Barium	56	1.0	mg/kg	EPA 6010B	
Chromium	22	2.0	mg/kg	EPA 6010B	
Cobalt	12	2.0	mg/kg	EPA 6010B	
Copper	5.0	1.0	mg/kg	EPA 6010B	
Nickel	13	2.0	mg/kg	EPA 6010B	
Vanadium	39	5.0	mg/kg	EPA 6010B	
Zinc	32	1.0	mg/kg	EPA 6010B	

**Sample ID:** B-2- 10.0

**Laboratory ID:** T180355-10

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	54	1.0	mg/kg	EPA 6010B	
Chromium	23	2.0	mg/kg	EPA 6010B	
Cobalt	12	2.0	mg/kg	EPA 6010B	
Copper	9.3	1.0	mg/kg	EPA 6010B	
Nickel	19	2.0	mg/kg	EPA 6010B	
Vanadium	26	5.0	mg/kg	EPA 6010B	
Zinc	33	1.0	mg/kg	EPA 6010B	
Benzene	4.1	1.6	ug/kg	EPA 8260B/5035	

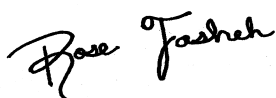
**Sample ID:** B-2- 20.0

**Laboratory ID:** T180355-12

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	11	10	mg/kg	EPA 8015B	
Barium	91	1.0	mg/kg	EPA 6010B	
Chromium	35	2.0	mg/kg	EPA 6010B	

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

Sample ID: B-2- 20.0

Laboratory ID: T180355-12

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Cobalt	17	2.0		mg/kg	EPA 6010B	
Copper	15	1.0		mg/kg	EPA 6010B	
Nickel	26	2.0		mg/kg	EPA 6010B	
Vanadium	34	5.0		mg/kg	EPA 6010B	
Zinc	37	1.0		mg/kg	EPA 6010B	

Sample ID: B-2

Laboratory ID: T180355-14

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	0.52	0.50		mg/l	EPA 8015B	
Barium	150	50		ug/l	EPA 6010b	
Toluene	0.92	0.50		ug/l	EPA 8260B	

Sample ID: B-6- 1.0

Laboratory ID: T180355-15

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	160	10		mg/kg	EPA 8015B	
C29-C40 (MORO)	1000	10		mg/kg	EPA 8015B	
Barium	79	1.0		mg/kg	EPA 6010B	
Chromium	27	2.0		mg/kg	EPA 6010B	
Cobalt	13	2.0		mg/kg	EPA 6010B	
Copper	12	1.0		mg/kg	EPA 6010B	
Nickel	15	2.0		mg/kg	EPA 6010B	
Vanadium	55	5.0		mg/kg	EPA 6010B	
Zinc	55	1.0		mg/kg	EPA 6010B	

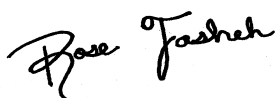
Sample ID: B-6- 10.0

Laboratory ID: T180355-17

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	71	1.0		mg/kg	EPA 6010B	
Chromium	19	2.0		mg/kg	EPA 6010B	
Cobalt	9.1	2.0		mg/kg	EPA 6010B	
Copper	15	1.0		mg/kg	EPA 6010B	
Nickel	20	2.0		mg/kg	EPA 6010B	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

Sample ID: B-6- 10.0

Laboratory ID: T180355-17

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Vanadium	21	5.0	mg/kg	EPA 6010B	
Zinc	38	1.0	mg/kg	EPA 6010B	

Sample ID: B-6- 20.0

Laboratory ID: T180355-19

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	120	1.0	mg/kg	EPA 6010B	
Chromium	19	2.0	mg/kg	EPA 6010B	
Cobalt	8.8	2.0	mg/kg	EPA 6010B	
Copper	12	1.0	mg/kg	EPA 6010B	
Nickel	18	2.0	mg/kg	EPA 6010B	
Vanadium	31	5.0	mg/kg	EPA 6010B	
Zinc	35	1.0	mg/kg	EPA 6010B	

Sample ID: B-11- 1.0

Laboratory ID: T180355-22

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	180	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	1100	10	mg/kg	EPA 8015B	
Barium	87	1.0	mg/kg	EPA 6010B	
Chromium	18	2.0	mg/kg	EPA 6010B	
Cobalt	11	2.0	mg/kg	EPA 6010B	
Copper	8.5	1.0	mg/kg	EPA 6010B	
Nickel	12	2.0	mg/kg	EPA 6010B	
Vanadium	36	5.0	mg/kg	EPA 6010B	
Zinc	35	1.0	mg/kg	EPA 6010B	
Ethylbenzene	2.1	1.8	ug/kg	EPA 8260B/5035	
m,p-Xylene	4.6	3.6	ug/kg	EPA 8260B/5035	

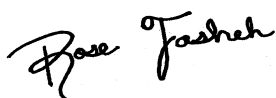
Sample ID: B-11- 10.0

Laboratory ID: T180355-24

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C6-C12 (GRO)	500	350	ug/kg	EPA 8015B/5035	
C13-C28 (DRO)	770	10	mg/kg	EPA 8015B	

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Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/07/18 16:12

**Sample ID:** B-11- 10.0

**Laboratory ID:** T180355-24

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	780	10		mg/kg	EPA 8015B	
Barium	73	1.0		mg/kg	EPA 6010B	
Chromium	26	2.0		mg/kg	EPA 6010B	
Cobalt	23	2.0		mg/kg	EPA 6010B	
Copper	12	1.0		mg/kg	EPA 6010B	
Nickel	29	2.0		mg/kg	EPA 6010B	
Vanadium	33	5.0		mg/kg	EPA 6010B	
Zinc	37	1.0		mg/kg	EPA 6010B	

**Sample ID:** B-11- 20.0

**Laboratory ID:** T180355-26

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	79	1.0		mg/kg	EPA 6010B	
Chromium	29	2.0		mg/kg	EPA 6010B	
Cobalt	15	2.0		mg/kg	EPA 6010B	
Copper	14	1.0		mg/kg	EPA 6010B	
Nickel	26	2.0		mg/kg	EPA 6010B	
Vanadium	52	5.0		mg/kg	EPA 6010B	
Zinc	47	1.0		mg/kg	EPA 6010B	
Benzene	2.1	1.7		ug/kg	EPA 8260B/5035	

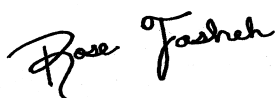
**Sample ID:** B-11

**Laboratory ID:** T180355-28

**No Results Detected**

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-1-1.0**  
**T180355-01 (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	350	ug/kg	1	8013124	01/31/18	01/31/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		65.9 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

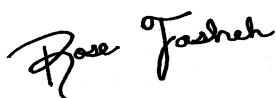
C13-C28 (DRO)	87	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
C29-C40 (MORO)	920	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		103 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>110</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>26</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>13</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>9.8</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>16</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>46</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>51</b>	1.0	"	"	"	"	"	"	

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Laguna Hills CA, 92653

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-1-1.0**  
**T180355-01 (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	8013126	01/31/18	02/01/18	EPA 7471A Soil	
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**Organochlorine Pesticides by EPA Method 8081A**

alpha-BHC	ND	50	ug/kg	10	8013136	01/31/18	02/01/18	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	100	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	2000	"	"	"	"	"	"	R-07

Surrogate: Tetrachloro-meta-xylene

101 % 35-140

" " " "

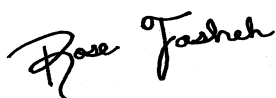
Surrogate: Decachlorobiphenyl

131 % 35-140

" " " "

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/07/18 16:12

**B-1-1.0**  
**T180355-01 (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**

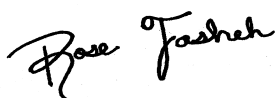
PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		67.5 %	35-140		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		50.7 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.4	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Bromochloromethane	ND	1.4	"	"	"	"	"	"	
Bromodichloromethane	ND	1.4	"	"	"	"	"	"	
Bromoform	ND	1.4	"	"	"	"	"	"	
Bromomethane	ND	1.4	"	"	"	"	"	"	
n-Butylbenzene	ND	1.4	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.4	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.4	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.4	"	"	"	"	"	"	
Chlorobenzene	ND	1.4	"	"	"	"	"	"	
Chloroethane	ND	1.4	"	"	"	"	"	"	
Chloroform	ND	1.4	"	"	"	"	"	"	
Chloromethane	ND	1.4	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.4	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.4	"	"	"	"	"	"	
Dibromochloromethane	ND	1.4	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.4	"	"	"	"	"	"	
Dibromomethane	ND	1.4	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.4	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.4	"	"	"	"	"	"	

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Rose Fasheh, Project Manager





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Project: 3rd & Fairfax  
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Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-1-1.0**  
**T180355-01 (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**

1,4-Dichlorobenzene	ND	1.4	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.4	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.4	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.4	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.4	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.4	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.4	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.4	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.4	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.4	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.4	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.4	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.4	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.4	"	"	"	"	"	"	
Isopropylbenzene	ND	1.4	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.4	"	"	"	"	"	"	
Methylene chloride	ND	1.4	"	"	"	"	"	"	
Naphthalene	ND	1.4	"	"	"	"	"	"	
n-Propylbenzene	ND	1.4	"	"	"	"	"	"	
Styrene	ND	1.4	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.4	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.4	"	"	"	"	"	"	
Tetrachloroethene	ND	1.4	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.4	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.4	"	"	"	"	"	"	
Trichloroethene	ND	1.4	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.4	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.4	"	"	"	"	"	"	

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**B-1-1.0**  
**T180355-01 (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**

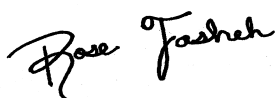
1,2,4-Trimethylbenzene	ND	1.4	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Vinyl chloride	ND	1.4	"	"	"	"	"	"	
Benzene	ND	1.4	"	"	"	"	"	"	
<b>Toluene</b>	<b>14</b>	1.4	"	"	"	"	"	"	
Ethylbenzene	ND	1.4	"	"	"	"	"	"	
m,p-Xylene	ND	2.9	"	"	"	"	"	"	
o-Xylene	ND	1.4	"	"	"	"	"	"	
Surrogate: Toluene-d8		105 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.0 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	3000	ug/kg	10	8020137	02/01/18	02/05/18	EPA 8270C	R-07
Phenol	ND	10000	"	"	"	"	"	"	R-07
Aniline	ND	3000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	10000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	3000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	3000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	3000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	10000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	3000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	3000	"	"	"	"	"	"	R-07
Acenaphthene	ND	3000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	10000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	3000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	10000	"	"	"	"	"	"	R-07
Pyrene	ND	3000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	3000	"	"	"	"	"	"	R-07
Anthracene	ND	3000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	3000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	3000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	3000	"	"	"	"	"	"	R-07

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Project Manager: Derrick Willis

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02/07/18 16:12

**B-1-1.0**  
**T180355-01 (Soil)**

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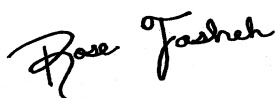
**SunStar Laboratories, Inc.**

**Semivolatile Organic Compounds by EPA Method 8270C**

Benzo (g,h,i) perylene	ND	10000	ug/kg	10	8020137	02/01/18	02/05/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	3000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	3000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	3000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	3000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	3000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	3000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	3000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	3000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	3000	"	"	"	"	"	"	R-07
Chrysene	ND	3000	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	3000	"	"	"	"	"	"	R-07
Dibenzofuran	ND	3000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	3000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	3000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	3000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	10000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	3000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	10000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	3000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	10000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	10000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	10000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	3000	"	"	"	"	"	"	R-07
Fluoranthene	ND	3000	"	"	"	"	"	"	R-07
Fluorene	ND	3000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	15000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	3000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	10000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	3000	"	"	"	"	"	"	R-07

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-1-1.0**  
**T180355-01 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Indeno (1,2,3-cd) pyrene	ND	3000	ug/kg	10	8020137	02/01/18	02/05/18	EPA 8270C	R-07
Isophorone	ND	3000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	10000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	10000	"	"	"	"	"	"	R-07
Naphthalene	ND	3000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	3000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	3000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	3000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	10000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	10000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	3000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	3000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	3000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	3000	"	"	"	"	"	"	R-07
Phenanthrene	ND	3000	"	"	"	"	"	"	R-07
Azobenzene	ND	3000	"	"	"	"	"	"	R-07
Pyridine	ND	3000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	10000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	10000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol		89.5 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		72.1 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		77.9 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		64.0 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		72.4 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		89.9 %	29.1-130		"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-1- 10.0**  
**T180355-03 (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	430	ug/kg	1	8013124	01/31/18	01/31/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		72.6 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	17	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		110 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>46</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>22</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>12</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>11</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>23</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>36</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>36</b>	1.0	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/07/18 16:12

**B-1- 10.0**  
**T180355-03 (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	8013126	01/31/18	02/01/18	EPA 7471A Soil	
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**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
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

50.3 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

45.6 % 35-140

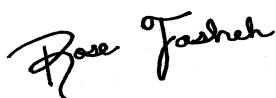
" " " "

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.7	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.3	"	"	"	"	"	"	

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Rose Fasheh, Project Manager





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Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-1- 10.0**  
**T180355-03 (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**

1,2-Dibromoethane (EDB)	ND	1.7	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-1- 10.0**  
**T180355-03 (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**

Trichloroethene	ND	1.7	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Benzene	ND	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.3	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		94.4 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.3 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		108 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

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**B-1- 10.0**  
**T180355-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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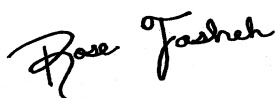
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**Semivolatile Organic Compounds by EPA Method 8270C**

Anthracene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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**B-1- 10.0**  
**T180355-03 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Hexachlorobenzene	ND	1500	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		85.5 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		75.8 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		89.2 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		85.0 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		77.0 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		104 %	29.1-130		"	"	"	"	

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Rose Fasheh, Project Manager



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Project Manager: Derrick Willis

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**B-1- 20.0**  
**T180355-05 (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	290	ug/kg	1	8013124	01/31/18	01/31/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		99.9 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	ND	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		109 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>47</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>17</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.7</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>5.4</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>11</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>19</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>16</b>	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-1- 20.0**  
**T180355-05 (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	8013126	01/31/18	02/01/18	EPA 7471A Soil	
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**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
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

63.4 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

51.8 % 35-140

" " " "

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.5	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Bromochloromethane	ND	1.5	"	"	"	"	"	"	
Bromodichloromethane	ND	1.5	"	"	"	"	"	"	
Bromoform	ND	1.5	"	"	"	"	"	"	
Bromomethane	ND	1.5	"	"	"	"	"	"	
n-Butylbenzene	ND	1.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.5	"	"	"	"	"	"	
Chlorobenzene	ND	1.5	"	"	"	"	"	"	
Chloroethane	ND	1.5	"	"	"	"	"	"	
Chloroform	ND	1.5	"	"	"	"	"	"	
Chloromethane	ND	1.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.5	"	"	"	"	"	"	
Dibromochloromethane	ND	1.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.1	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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*Rose Fasheh*

Rose Fasheh, Project Manager





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Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-1- 20.0**  
**T180355-05 (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**

1,2-Dibromoethane (EDB)	ND	1.5	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Dibromomethane	ND	1.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.5	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.5	"	"	"	"	"	"	
Isopropylbenzene	ND	1.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.5	"	"	"	"	"	"	
Methylene chloride	ND	1.5	"	"	"	"	"	"	
Naphthalene	ND	1.5	"	"	"	"	"	"	
n-Propylbenzene	ND	1.5	"	"	"	"	"	"	
Styrene	ND	1.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.5	"	"	"	"	"	"	
Tetrachloroethene	ND	1.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.5	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
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02/07/18 16:12

**B-1- 20.0**  
**T180355-05 (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**

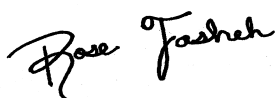
Trichloroethene	ND	1.5	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.5	"	"	"	"	"	"	
Vinyl chloride	ND	1.5	"	"	"	"	"	"	
Benzene	ND	1.5	"	"	"	"	"	"	
Toluene	ND	1.5	"	"	"	"	"	"	
Ethylbenzene	ND	1.5	"	"	"	"	"	"	
m,p-Xylene	ND	3.1	"	"	"	"	"	"	
o-Xylene	ND	1.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.3 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.2 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		109 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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02/07/18 16:12

**B-1- 20.0**  
**T180355-05 (Soil)**

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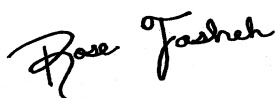
**SunStar Laboratories, Inc.**

**Semivolatile Organic Compounds by EPA Method 8270C**

Anthracene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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**B-1- 20.0**  
**T180355-05 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Hexachlorobenzene	ND	1500	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		89.0 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		75.8 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		87.3 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		89.4 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		92.6 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		106 %	29.1-130		"	"	"	"	

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Rose Fasheh, Project Manager

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/07/18 16:12

**B-2- 1.0**  
**T180355-08 (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	380	ug/kg	1	8013124	01/31/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		46.0 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015B**

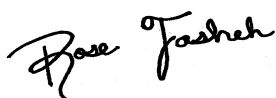
C13-C28 (DRO)	260	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
C29-C40 (MORO)	860	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		106 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>56</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>22</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>12</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>5.0</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>13</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>39</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>32</b>	1.0	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-2- 1.0**  
**T180355-08 (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	8013126	01/31/18	02/01/18	EPA 7471A Soil	
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**Organochlorine Pesticides by EPA Method 8081A**

alpha-BHC	ND	10	ug/kg	2	8013136	01/31/18	02/01/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	10	"	"	"	"	"	"	R-07
beta-BHC	ND	10	"	"	"	"	"	"	R-07
delta-BHC	ND	10	"	"	"	"	"	"	R-07
Heptachlor	ND	10	"	"	"	"	"	"	R-07
Aldrin	ND	10	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	10	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	10	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	10	"	"	"	"	"	"	R-07
Endosulfan I	ND	10	"	"	"	"	"	"	R-07
4,4'-DDE	ND	10	"	"	"	"	"	"	R-07
Dieldrin	ND	10	"	"	"	"	"	"	R-07
Endrin	ND	10	"	"	"	"	"	"	R-07
4,4'-DDD	ND	10	"	"	"	"	"	"	R-07
Endosulfan II	ND	10	"	"	"	"	"	"	R-07
4,4'-DDT	ND	10	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	10	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	10	"	"	"	"	"	"	R-07
Methoxychlor	ND	20	"	"	"	"	"	"	R-07
Endrin ketone	ND	10	"	"	"	"	"	"	R-07
Toxaphene	ND	400	"	"	"	"	"	"	R-07

Surrogate: Tetrachloro-meta-xylene

70.6 % 35-140

"

"

"

"

Surrogate: Decachlorobiphenyl

65.2 % 35-140

"

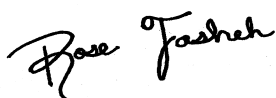
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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/07/18 16:12

**B-2- 1.0**  
**T180355-08 (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**

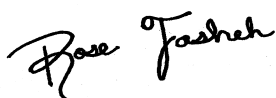
PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		53.4 %	35-140		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		46.0 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.5	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Bromochloromethane	ND	1.5	"	"	"	"	"	"	
Bromodichloromethane	ND	1.5	"	"	"	"	"	"	
Bromoform	ND	1.5	"	"	"	"	"	"	
Bromomethane	ND	1.5	"	"	"	"	"	"	
n-Butylbenzene	ND	1.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.5	"	"	"	"	"	"	
Chlorobenzene	ND	1.5	"	"	"	"	"	"	
Chloroethane	ND	1.5	"	"	"	"	"	"	
Chloroform	ND	1.5	"	"	"	"	"	"	
Chloromethane	ND	1.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.5	"	"	"	"	"	"	
Dibromochloromethane	ND	1.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.1	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.5	"	"	"	"	"	"	
Dibromomethane	ND	1.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	

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Rose Fasheh, Project Manager





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**B-2- 1.0**  
**T180355-08 (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**

1,4-Dichlorobenzene	ND	1.5	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.5	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.5	"	"	"	"	"	"	
Isopropylbenzene	ND	1.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.5	"	"	"	"	"	"	
Methylene chloride	ND	1.5	"	"	"	"	"	"	
Naphthalene	ND	1.5	"	"	"	"	"	"	
n-Propylbenzene	ND	1.5	"	"	"	"	"	"	
Styrene	ND	1.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.5	"	"	"	"	"	"	
Tetrachloroethene	ND	1.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.5	"	"	"	"	"	"	
Trichloroethene	ND	1.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.5	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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Reported:  
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**B-2- 1.0**  
**T180355-08 (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**

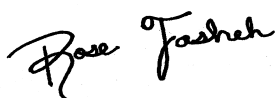
1,2,4-Trimethylbenzene	ND	1.5	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Vinyl chloride	ND	1.5	"	"	"	"	"	"	
Benzene	ND	1.5	"	"	"	"	"	"	
Toluene	ND	1.5	"	"	"	"	"	"	
Ethylbenzene	ND	1.5	"	"	"	"	"	"	
m,p-Xylene	ND	3.1	"	"	"	"	"	"	
o-Xylene	ND	1.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		104 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.5 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		112 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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**B-2- 1.0**  
**T180355-08 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
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**B-2- 1.0**  
**T180355-08 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol		78.8 %	15-121		"	"	"	"
Surrogate: Phenol-d6		71.6 %	24-113		"	"	"	"
Surrogate: Nitrobenzene-d5		81.4 %	21.3-119		"	"	"	"
Surrogate: 2-Fluorobiphenyl		83.9 %	32.4-102		"	"	"	"
Surrogate: 2,4,6-Tribromophenol		87.3 %	18.1-105		"	"	"	"
Surrogate: Terphenyl-d14		95.6 %	29.1-130		"	"	"	"

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**B-2- 10.0**  
**T180355-10 (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	350	ug/kg	1	8013124	01/31/18	01/31/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		63.0 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	ND	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		110 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>54</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>23</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>12</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>9.3</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>19</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>26</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>33</b>	1.0	"	"	"	"	"	"	

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**T180355-10 (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	8013126	01/31/18	02/01/18	EPA 7471A Soil	
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**Polychlorinated Biphenyls by EPA Method 8082**

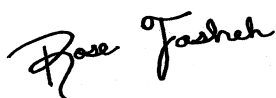
PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		55.7 %	35-140		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		50.5 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.6	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Bromochloromethane	ND	1.6	"	"	"	"	"	"	
Bromodichloromethane	ND	1.6	"	"	"	"	"	"	
Bromoform	ND	1.6	"	"	"	"	"	"	
Bromomethane	ND	1.6	"	"	"	"	"	"	
n-Butylbenzene	ND	1.6	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.6	"	"	"	"	"	"	
Chlorobenzene	ND	1.6	"	"	"	"	"	"	
Chloroethane	ND	1.6	"	"	"	"	"	"	
Chloroform	ND	1.6	"	"	"	"	"	"	
Chloromethane	ND	1.6	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.6	"	"	"	"	"	"	
Dibromochloromethane	ND	1.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.2	"	"	"	"	"	"	

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02/07/18 16:12

**B-2- 10.0**  
**T180355-10 (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**

1,2-Dibromoethane (EDB)	ND	1.6	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Dibromomethane	ND	1.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.6	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.6	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.6	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.6	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.6	"	"	"	"	"	"	
Isopropylbenzene	ND	1.6	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.6	"	"	"	"	"	"	
Methylene chloride	ND	1.6	"	"	"	"	"	"	
Naphthalene	ND	1.6	"	"	"	"	"	"	
n-Propylbenzene	ND	1.6	"	"	"	"	"	"	
Styrene	ND	1.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.6	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.6	"	"	"	"	"	"	
Tetrachloroethene	ND	1.6	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.6	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-2- 10.0**  
**T180355-10 (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**

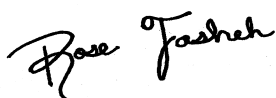
Trichloroethene	ND	1.6	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.6	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.6	"	"	"	"	"	"	
Vinyl chloride	ND	1.6	"	"	"	"	"	"	
<b>Benzene</b>	<b>4.1</b>	1.6	"	"	"	"	"	"	
Toluene	ND	1.6	"	"	"	"	"	"	
Ethylbenzene	ND	1.6	"	"	"	"	"	"	
m,p-Xylene	ND	3.2	"	"	"	"	"	"	
o-Xylene	ND	1.6	"	"	"	"	"	"	
Surrogate: Toluene-d8		105 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.1 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		109 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-2- 10.0**  
**T180355-10 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Anthracene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-2- 10.0**  
**T180355-10 (Soil)**

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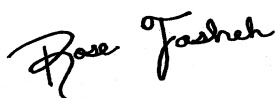
**SunStar Laboratories, Inc.**

**Semivolatile Organic Compounds by EPA Method 8270C**

Hexachlorobenzene	ND	1500	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		64.7 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		78.5 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		90.9 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		86.0 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		96.8 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		109 %	29.1-130		"	"	"	"	

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Rose Fasheh, Project Manager



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**B-2- 20.0**  
**T180355-12 (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	410	ug/kg	1	8013124	01/31/18	01/31/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		85.3 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	11	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		99.0 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>91</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>35</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>17</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>15</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>26</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>34</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>37</b>	1.0	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/07/18 16:12

**B-2- 20.0**  
**T180355-12 (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	8013126	01/31/18	02/01/18	EPA 7471A Soil	
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**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
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

62.6 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

57.0 % 35-140

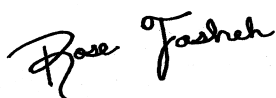
" " " "

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	2.4	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Bromochloromethane	ND	2.4	"	"	"	"	"	"	
Bromodichloromethane	ND	2.4	"	"	"	"	"	"	
Bromoform	ND	2.4	"	"	"	"	"	"	
Bromomethane	ND	2.4	"	"	"	"	"	"	
n-Butylbenzene	ND	2.4	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.4	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.4	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.4	"	"	"	"	"	"	
Chlorobenzene	ND	2.4	"	"	"	"	"	"	
Chloroethane	ND	2.4	"	"	"	"	"	"	
Chloroform	ND	2.4	"	"	"	"	"	"	
Chloromethane	ND	2.4	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.4	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.4	"	"	"	"	"	"	
Dibromochloromethane	ND	2.4	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.7	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

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**B-2- 20.0**  
**T180355-12 (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**

1,2-Dibromoethane (EDB)	ND	2.4	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Dibromomethane	ND	2.4	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.4	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.4	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.4	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.4	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.4	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.4	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.4	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.4	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.4	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.4	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.4	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.4	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.4	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.4	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.4	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.4	"	"	"	"	"	"	
Isopropylbenzene	ND	2.4	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.4	"	"	"	"	"	"	
Methylene chloride	ND	2.4	"	"	"	"	"	"	
Naphthalene	ND	2.4	"	"	"	"	"	"	
n-Propylbenzene	ND	2.4	"	"	"	"	"	"	
Styrene	ND	2.4	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.4	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.4	"	"	"	"	"	"	
Tetrachloroethene	ND	2.4	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.4	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.4	"	"	"	"	"	"	

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*Rose Fasheh*

Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/07/18 16:12

**B-2- 20.0**  
**T180355-12 (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**

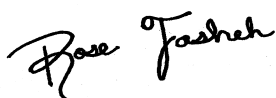
Trichloroethene	ND	2.4	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	2.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.4	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.4	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.4	"	"	"	"	"	"	
Vinyl chloride	ND	2.4	"	"	"	"	"	"	
Benzene	ND	2.4	"	"	"	"	"	"	
Toluene	ND	2.4	"	"	"	"	"	"	
Ethylbenzene	ND	2.4	"	"	"	"	"	"	
m,p-Xylene	ND	4.7	"	"	"	"	"	"	
o-Xylene	ND	2.4	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.7 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.4 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager





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Laguna Hills CA, 92653

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-2- 20.0**  
**T180355-12 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Anthracene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
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Reported:  
02/07/18 16:12

**B-2- 20.0**  
**T180355-12 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Hexachlorobenzene	ND	1500	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		71.1 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		64.6 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		68.9 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		75.4 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		92.8 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		107 %	29.1-130		"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/07/18 16:12

**B-2**  
**T180355-14 (Water)**

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	50	ug/l	1	8013123	01/31/18	01/31/18	EPA 8015B	
Surrogate: 4-Bromofluorobenzene		96.3 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	0.52	0.50	mg/l	1	8013130	01/31/18	02/01/18	EPA 8015B	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl		80.9 %	65-135		"	"	"	"	

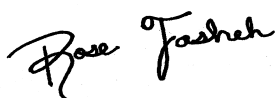
**Metals by EPA 6010B**

**FILT**

Antimony	ND	50	ug/l	1	8013139	01/31/18	02/01/18	EPA 6010b	
Silver	ND	50	"	"	"	"	"	"	
Arsenic	ND	50	"	"	"	"	"	"	
<b>Barium</b>	<b>150</b>	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	"	"	"	"	"	"	

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Reported:  
02/07/18 16:12

**B-2**  
**T180355-14 (Water)**

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

**Cold Vapor Extraction EPA 7470/7471**

**FILT**

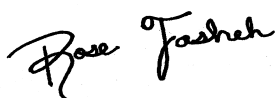
Mercury	ND	0.50	ug/l	1	8013140	01/31/18	02/01/18	EPA 7470A Water	
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**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	8013122	01/31/18	01/31/18	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	5.0	"	"	"	"	"	"	
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	"	"	"	"	"	"	

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**B-2**  
**T180355-14 (Water)**

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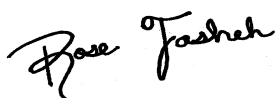
**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	8013122	01/31/18	01/31/18	EPA 8260B	
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	1.0	"	"	"	"	"	"	
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	"	"	"	"	"	"	
<b>Toluene</b>	<b>0.92</b>	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		83.5-119	"	"	"	"	
Surrogate: Dibromofluoromethane		108 %		81-136	"	"	"	"	

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Rose Fasheh, Project Manager



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Project Manager: Derrick Willis

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**B-2**  
**T180355-14 (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: Toluene-d8	106 %	88.8-117	8013122	01/31/18	01/31/18	EPA 8260B
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24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/07/18 16:12

**B-6- 1.0**  
**T180355-15 (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	320	ug/kg	1	8013124	01/31/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		85.4 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

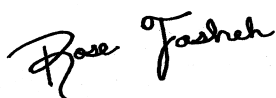
C13-C28 (DRO)	160	10	mg/kg	1	8013128	01/31/18	02/01/18	EPA 8015B	
C29-C40 (MORO)	1000	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		101 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>79</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>27</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>13</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>12</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>15</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>55</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>55</b>	1.0	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

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**B-6- 1.0**  
**T180355-15 (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	8013126	01/31/18	02/01/18	EPA 7471A Soil	
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**Organochlorine Pesticides by EPA Method 8081A**

alpha-BHC	ND	10	ug/kg	2	8013136	01/31/18	02/01/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	10	"	"	"	"	"	"	R-07
beta-BHC	ND	10	"	"	"	"	"	"	R-07
delta-BHC	ND	10	"	"	"	"	"	"	R-07
Heptachlor	ND	10	"	"	"	"	"	"	R-07
Aldrin	ND	10	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	10	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	10	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	10	"	"	"	"	"	"	R-07
Endosulfan I	ND	10	"	"	"	"	"	"	R-07
4,4'-DDE	ND	10	"	"	"	"	"	"	R-07
Dieldrin	ND	10	"	"	"	"	"	"	R-07
Endrin	ND	10	"	"	"	"	"	"	R-07
4,4'-DDD	ND	10	"	"	"	"	"	"	R-07
Endosulfan II	ND	10	"	"	"	"	"	"	R-07
4,4'-DDT	ND	10	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	10	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	10	"	"	"	"	"	"	R-07
Methoxychlor	ND	20	"	"	"	"	"	"	R-07
Endrin ketone	ND	10	"	"	"	"	"	"	R-07
Toxaphene	ND	400	"	"	"	"	"	"	R-07

Surrogate: Tetrachloro-meta-xylene

91.3 % 35-140

"

"

"

"

Surrogate: Decachlorobiphenyl

83.3 % 35-140

"

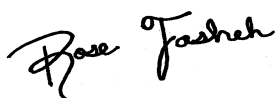
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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-6- 1.0**  
**T180355-15 (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**

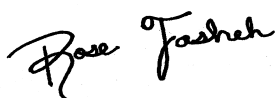
PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		65.4 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		52.7 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.9	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	
Chloromethane	ND	1.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.9	"	"	"	"	"	"	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	

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Reported:  
02/07/18 16:12

**B-6- 1.0**  
**T180355-15 (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**

1,4-Dichlorobenzene	ND	1.9	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
Methylene chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	

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Reported:  
02/07/18 16:12

**B-6- 1.0**  
**T180355-15 (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**

1,2,4-Trimethylbenzene	ND	1.9	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Vinyl chloride	ND	1.9	"	"	"	"	"	"	
Benzene	ND	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.9	"	"	"	"	"	"	
o-Xylene	ND	1.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		108 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.8 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		112 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Project Manager: Derrick Willis

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**B-6- 1.0**  
**T180355-15 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Project Number: 2047.15  
Project Manager: Derrick Willis

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02/07/18 16:12

**B-6- 1.0**  
**T180355-15 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol		62.3 %	15-121		"	"	"	"
Surrogate: Phenol-d6		78.3 %	24-113		"	"	"	"
Surrogate: Nitrobenzene-d5		75.7 %	21.3-119		"	"	"	"
Surrogate: 2-Fluorobiphenyl		82.5 %	32.4-102		"	"	"	"
Surrogate: 2,4,6-Tribromophenol		86.9 %	18.1-105		"	"	"	"
Surrogate: Terphenyl-d14		101 %	29.1-130		"	"	"	"

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02/07/18 16:12

**B-6- 10.0**  
**T180355-17 (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	380	ug/kg	1	8013124	01/31/18	01/31/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		68.5 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	ND	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		104 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>71</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>19</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>9.1</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>15</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>20</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>21</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>38</b>	1.0	"	"	"	"	"	"	

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02/07/18 16:12

**B-6- 10.0**  
**T180355-17 (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	8013126	01/31/18	02/01/18	EPA 7471A Soil	
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**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
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

56.7 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

55.2 % 35-140

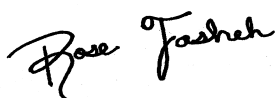
" " " "

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.7	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.4	"	"	"	"	"	"	

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Laguna Hills CA, 92653

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-6- 10.0**  
**T180355-17 (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**

1,2-Dibromoethane (EDB)	ND	1.7	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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Laguna Hills CA, 92653

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Project Manager: Derrick Willis

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02/07/18 16:12

**B-6- 10.0**  
**T180355-17 (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**

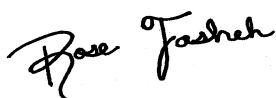
Trichloroethene	ND	1.7	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Benzene	ND	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.4	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		103 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.5 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		110 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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**B-6- 10.0**  
**T180355-17 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Anthracene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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02/07/18 16:12

**B-6- 10.0**  
**T180355-17 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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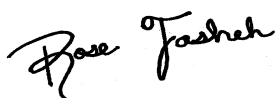
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**Semivolatile Organic Compounds by EPA Method 8270C**

Hexachlorobenzene	ND	1500	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		70.3 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		60.0 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		78.1 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		76.5 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		85.8 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		112 %	29.1-130		"	"	"	"	

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Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-6- 20.0**  
**T180355-19 (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	330	ug/kg	1	8013124	01/31/18	01/31/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		72.1 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	ND	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		106 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>120</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>19</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>8.8</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>12</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>18</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>31</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>35</b>	1.0	"	"	"	"	"	"	

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24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
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Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-6- 20.0**  
**T180355-19 (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	8013126	01/31/18	02/01/18	EPA 7471A Soil	
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**Polychlorinated Biphenyls by EPA Method 8082**

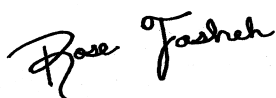
PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		55.4 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		53.6 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.8	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.6	"	"	"	"	"	"	

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**T180355-19 (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**

1,2-Dibromoethane (EDB)	ND	1.8	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	

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**B-6- 20.0**  
**T180355-19 (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**

Trichloroethene	ND	1.8	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	ND	3.6	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		105 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		94.0 %	95.7-135		"	"	"	"	S-GC

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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*Rose Fasheh*

Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-6- 20.0**  
**T180355-19 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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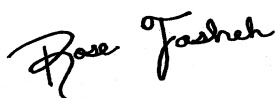
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**Semivolatile Organic Compounds by EPA Method 8270C**

Anthracene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-6- 20.0**  
**T180355-19 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Hexachlorobenzene	ND	1500	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		74.7 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		61.5 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		70.0 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		68.9 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		86.1 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		97.5 %	29.1-130		"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-11- 1.0**  
**T180355-22 (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	320	ug/kg	1	8013124	01/31/18	01/31/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		47.8 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	180	10	mg/kg	1	8013128	01/31/18	02/01/18	EPA 8015B	
C29-C40 (MORO)	1100	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		108 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	87	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	18	2.0	"	"	"	"	"	"	
Cobalt	11	2.0	"	"	"	"	"	"	
Copper	8.5	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	12	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	36	5.0	"	"	"	"	"	"	
Zinc	35	1.0	"	"	"	"	"	"	

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24411 Ridge Route Drive, Suite 130  
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Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/07/18 16:12

**B-11- 1.0**  
**T180355-22 (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**

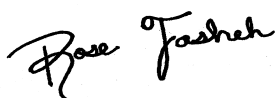
Mercury	ND	0.10	mg/kg	1	8013126	01/31/18	02/01/18	EPA 7471A Soil	
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**Organochlorine Pesticides by EPA Method 8081A**

alpha-BHC	ND	10	ug/kg	2	8013136	01/31/18	02/01/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	10	"	"	"	"	"	"	R-07
beta-BHC	ND	10	"	"	"	"	"	"	R-07
delta-BHC	ND	10	"	"	"	"	"	"	R-07
Heptachlor	ND	10	"	"	"	"	"	"	R-07
Aldrin	ND	10	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	10	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	10	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	10	"	"	"	"	"	"	R-07
Endosulfan I	ND	10	"	"	"	"	"	"	R-07
4,4'-DDE	ND	10	"	"	"	"	"	"	R-07
Dieldrin	ND	10	"	"	"	"	"	"	R-07
Endrin	ND	10	"	"	"	"	"	"	R-07
4,4'-DDD	ND	10	"	"	"	"	"	"	R-07
Endosulfan II	ND	10	"	"	"	"	"	"	R-07
4,4'-DDT	ND	10	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	10	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	10	"	"	"	"	"	"	R-07
Methoxychlor	ND	20	"	"	"	"	"	"	R-07
Endrin ketone	ND	10	"	"	"	"	"	"	R-07
Toxaphene	ND	400	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		84.2 %	35-140		"	"	"	"	R-07
Surrogate: Decachlorobiphenyl		89.7 %	35-140		"	"	"	"	

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Rose Fasheh, Project Manager

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-11- 1.0**  
**T180355-22 (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**

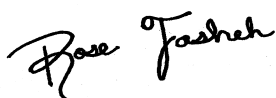
PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		65.3 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		51.5 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.8	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.8	"	"	"	"	"	"	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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**B-11- 1.0**  
**T180355-22 (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**

1,4-Dichlorobenzene	ND	1.8	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	
Trichloroethene	ND	1.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	

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Rose Fasheh, Project Manager





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**B-11- 1.0**  
**T180355-22 (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**

1,2,4-Trimethylbenzene	ND	1.8	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	2.1	1.8	"	"	"	"	"	"	
m,p-Xylene	4.6	3.6	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		70.1 %		85.5-116	"	"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene		67.0 %		81.2-123	"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		100 %		95.7-135	"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-11- 1.0**  
**T180355-22 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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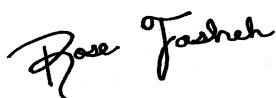
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**Semivolatile Organic Compounds by EPA Method 8270C**

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-11- 1.0**  
**T180355-22 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	80.7 %	15-121	"	"	"	"	"	"
Surrogate: Phenol-d6	67.0 %	24-113	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	78.8 %	21.3-119	"	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	87.7 %	32.4-102	"	"	"	"	"	"
Surrogate: 2,4,6-Tribromophenol	77.3 %	18.1-105	"	"	"	"	"	"
Surrogate: Terphenyl-d14	84.0 %	29.1-130	"	"	"	"	"	"

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-11- 10.0**  
**T180355-24 (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**

<b>C6-C12 (GRO)</b>	<b>500</b>	350	ug/kg	1	8013124	01/31/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		64.5 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015B**

<b>C13-C28 (DRO)</b>	<b>770</b>	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
<b>C29-C40 (MORO)</b>	<b>780</b>	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		98.5 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>73</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>26</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>23</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>12</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>29</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>33</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>37</b>	1.0	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/07/18 16:12

**B-11- 10.0**  
**T180355-24 (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	8013126	01/31/18	02/01/18	EPA 7471A Soil	
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**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
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

55.2 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

48.3 % 35-140

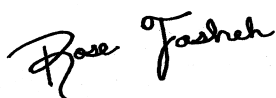
" " " "

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.8	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.6	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-11- 10.0**  
**T180355-24 (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**

1,2-Dibromoethane (EDB)	ND	1.8	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

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02/07/18 16:12

**B-11- 10.0**  
**T180355-24 (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**

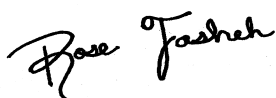
Trichloroethene	ND	1.8	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	ND	3.6	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		83.9 %	85.5-116		"	"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene		78.4 %	81.2-123		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		109 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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Project: 3rd & Fairfax  
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**B-11- 10.0**  
**T180355-24 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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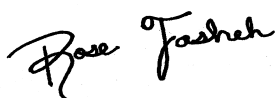
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**Semivolatile Organic Compounds by EPA Method 8270C**

Anthracene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager





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Laguna Hills CA, 92653

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-11- 10.0**  
**T180355-24 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Hexachlorobenzene	ND	1500	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		57.2 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		66.9 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		86.5 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		78.9 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		80.3 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		104 %	29.1-130		"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/07/18 16:12

**B-11- 20.0**  
**T180355-26 (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	340	ug/kg	1	8013124	01/31/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		65.5 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

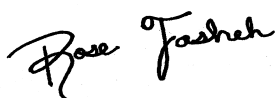
C13-C28 (DRO)	ND	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		101 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>79</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>29</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>15</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>14</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>26</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>52</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>47</b>	1.0	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/07/18 16:12

**B-11- 20.0**  
**T180355-26 (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	8013126	01/31/18	02/01/18	EPA 7471A Soil	
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**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
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

57.5 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

53.4 % 35-140

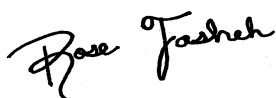
" " " "

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.7	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.3	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-11- 20.0**  
**T180355-26 (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**

1,2-Dibromoethane (EDB)	ND	1.7	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/07/18 16:12

**B-11- 20.0**  
**T180355-26 (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**

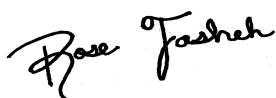
Trichloroethene	ND	1.7	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
<b>Benzene</b>	<b>2.1</b>	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.3	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		90.6 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.9 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		90.7 %	95.7-135		"	"	"	"	S-GC

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-11- 20.0**  
**T180355-26 (Soil)**

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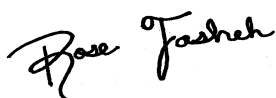
**SunStar Laboratories, Inc.**

**Semivolatile Organic Compounds by EPA Method 8270C**

Anthracene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-11- 20.0**  
**T180355-26 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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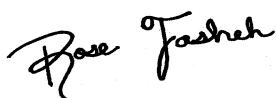
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**Semivolatile Organic Compounds by EPA Method 8270C**

Hexachlorobenzene	ND	1500	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		63.1 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		70.8 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		78.9 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		82.0 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		86.5 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		108 %	29.1-130		"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-11**

**T180355-28 (Water)**

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	50	ug/l	1	8013123	01/31/18	01/31/18	EPA 8015B	
Surrogate: 4-Bromofluorobenzene		108 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

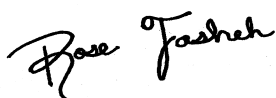
C13-C28 (DRO)	ND	0.50	mg/l	1	8013130	01/31/18	02/01/18	EPA 8015B	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl		77.4 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	8013122	01/31/18	02/01/18	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	5.0	"	"	"	"	"	"	
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	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

**B-11**

**T180355-28 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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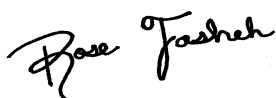
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**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dichloroethane	ND	0.50	ug/l	1	8013122	01/31/18	02/01/18	EPA 8260B
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	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
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	"	"	"	"	"	"

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Project Manager: Derrick Willis

Reported:  
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**B-11**

**T180355-28 (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**

Ethylbenzene	ND	0.50	ug/l	1	8013122	01/31/18	02/01/18	EPA 8260B
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		104 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		108 %	81-136		"	"	"	"
Surrogate: Toluene-d8		109 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

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Reported:  
02/07/18 16:12

### 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 8013123 - EPA 5030 GC

##### Blank (8013123-BLK1)

Prepared & Analyzed: 01/31/18

C6-C12 (GRO)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	118		"	100		118	65-135			

##### LCS (8013123-BS1)

Prepared & Analyzed: 01/31/18

C6-C12 (GRO)	1010	50	ug/l	1000		101	75-125			
Surrogate: 4-Bromofluorobenzene	122		"	100		122	65-135			

##### LCS Dup (8013123-BSD1)

Prepared & Analyzed: 01/31/18

C6-C12 (GRO)	980	50	ug/l	1000		98.0	75-125	2.80	20	
Surrogate: 4-Bromofluorobenzene	104		"	100		104	65-135			

#### Batch 8013124 - EPA 5035 GC

##### Blank (8013124-BLK1)

Prepared & Analyzed: 01/31/18

C6-C12 (GRO)	ND	400	ug/kg							
Surrogate: 4-Bromofluorobenzene	101		"	100		101	65-135			

##### LCS (8013124-BS1)

Prepared: 01/31/18 Analyzed: 02/01/18

C6-C12 (GRO)	1560	400	ug/kg	2000		78.0	75-125			
Surrogate: 4-Bromofluorobenzene	87.0		"	100		87.0	65-135			

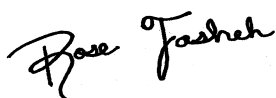
##### LCS Dup (8013124-BSD1)

Prepared: 01/31/18 Analyzed: 02/01/18

C6-C12 (GRO)	1500	400	ug/kg	1980		75.6	75-125	4.09	20	
Surrogate: 4-Bromofluorobenzene	78.6		"	100		78.6	65-135			

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### 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 8013128 - EPA 3550B GC

##### Blank (8013128-BLK1)

Prepared & Analyzed: 01/31/18

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

Surrogate: <i>p</i> -Terphenyl	105	"	102	103	65-135
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##### LCS (8013128-BS1)

Prepared & Analyzed: 01/31/18

C13-C28 (DRO)	580	10	mg/kg	505	115	75-125
Surrogate: <i>p</i> -Terphenyl	105		"	101	104	65-135

##### LCS Dup (8013128-BSD1)

Prepared & Analyzed: 01/31/18

C13-C28 (DRO)	580	10	mg/kg	500	116	75-125	0.519	20
Surrogate: <i>p</i> -Terphenyl	103	"		100	103	65-135		

#### Batch 8013130 - EPA 3510C GC

##### Blank (8013130-BLK1)

Prepared: 01/31/18 Analyzed: 02/01/18

C13-C28 (DRO)	ND	0.50	mg/l
C29-C40 (MORO)	ND	0.50	"

Surrogate: <i>p</i> -Terphenyl	2.70	"	4.00	67.6	65-135
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##### LCS (8013130-BS1)

Prepared: 01/31/18 Analyzed: 02/01/18

C13-C28 (DRO)	16.5	0.50	mg/l	20.0	82.6	75-125
Surrogate: <i>p</i> -Terphenyl	2.95	"	4.00	73.8	65-135	

##### LCS Dup (8013130-BSD1)

Prepared: 01/31/18 Analyzed: 02/01/18

C13-C28 (DRO)	17.0	0.50	mg/l	20.0	85.0	75-125	2.79	20
Surrogate: <i>p</i> -Terphenyl	2.99	"	4.00	74.8	65-135			

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### 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 8013127 - EPA 3050B

##### Blank (8013127-BLK1)

Prepared: 01/31/18 Analyzed: 02/01/18

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	2.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							

##### LCS (8013127-BS1)

Prepared: 01/31/18 Analyzed: 02/01/18

Arsenic	117	5.0	mg/kg	100		117	75-125
Barium	112	1.0	"	100		112	75-125
Cadmium	111	2.0	"	100		111	75-125
Chromium	110	2.0	"	100		110	75-125
Lead	118	3.0	"	100		118	75-125

##### Matrix Spike (8013127-MS1)

Source: T180355-01

Prepared: 01/31/18 Analyzed: 02/01/18

Arsenic	97.7	5.0	mg/kg	98.0	ND	99.7	75-125
Barium	187	1.0	"	98.0	108	81.4	75-125
Cadmium	92.9	2.0	"	98.0	0.875	93.8	75-125
Chromium	116	2.0	"	98.0	26.2	91.2	75-125
Lead	108	3.0	"	98.0	ND	110	75-125

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### 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 8013127 - EPA 3050B

##### Matrix Spike Dup (8013127-MSD1)

Source: T180355-01

Prepared: 01/31/18 Analyzed: 02/01/18

Arsenic	88.2	5.0	mg/kg	98.0	ND	90.0	75-125	10.2	20	
Barium	189	1.0	"	98.0	108	82.6	75-125	0.643	20	
Cadmium	91.4	2.0	"	98.0	0.875	92.4	75-125	1.56	20	
Chromium	115	2.0	"	98.0	26.2	90.1	75-125	0.924	20	
Lead	109	3.0	"	98.0	ND	111	75-125	0.740	20	

#### Batch 8013139 - EPA 3010A

##### Blank (8013139-BLK1)

Prepared: 01/31/18 Analyzed: 02/01/18

FILT

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 (8013139-BS1)

Prepared: 01/31/18 Analyzed: 02/01/18

FILT

Arsenic	502	50	ug/l	500	100	75-125
Barium	500	50	"	500	100	75-125
Cadmium	501	50	"	500	100	75-125
Chromium	500	50	"	500	100	75-125
Lead	509	50	"	500	102	75-125

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### 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 8013139 - EPA 3010A

Matrix Spike (8013139-MS1)	Source: T180355-14			Prepared: 01/31/18		Analyzed: 02/01/18		FILT		
Arsenic	524	50	ug/l	500	28.9	99.0	75-125			
Barium	604	50	"	500	154	89.9	75-125			
Cadmium	467	50	"	500	ND	93.3	75-125			
Chromium	489	50	"	500	21.5	93.4	75-125			
Lead	476	50	"	500	ND	95.2	75-125			
Matrix Spike Dup (8013139-MSD1)	Source: T180355-14			Prepared: 01/31/18		Analyzed: 02/01/18		FILT		
Arsenic	505	50	ug/l	500	28.9	95.3	75-125	3.64	20	
Barium	615	50	"	500	154	92.2	75-125	1.88	20	
Cadmium	477	50	"	500	ND	95.5	75-125	2.28	20	
Chromium	504	50	"	500	21.5	96.6	75-125	3.14	20	
Lead	476	50	"	500	ND	95.3	75-125	0.0936	20	

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### 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 8013126 - EPA 7471A Soil

<b>Blank (8013126-BLK1)</b>				Prepared: 01/31/18 Analyzed: 02/01/18						
Mercury	ND	0.10	mg/kg							
<b>LCS (8013126-BS1)</b>				Prepared: 01/31/18 Analyzed: 02/01/18						
Mercury	0.346	0.10	mg/kg	0.385		89.9	80-120			
<b>Matrix Spike (8013126-MS1)</b>				Source: T180355-01 Prepared: 01/31/18 Analyzed: 02/01/18						
Mercury	0.361	0.10	mg/kg	0.397	ND	91.0	75-125			
<b>Matrix Spike Dup (8013126-MSD1)</b>				Source: T180355-01 Prepared: 01/31/18 Analyzed: 02/01/18						
Mercury	0.355	0.10	mg/kg	0.397	ND	89.4	75-125	1.76	20	

#### Batch 8013140 - EPA 7470A Water

<b>Blank (8013140-BLK1)</b>				Prepared: 01/31/18 Analyzed: 02/01/18						
Mercury	ND	0.50	ug/l							
<b>LCS (8013140-BS1)</b>				Prepared: 01/31/18 Analyzed: 02/01/18						
Mercury	4.67	0.50	ug/l	5.00		93.4	80-120			
<b>Matrix Spike (8013140-MS1)</b>				Source: T180355-14 Prepared: 01/31/18 Analyzed: 02/01/18						
Mercury	3.10	0.50	ug/l	5.00	ND	61.9	75-125			FILT, QM-05
<b>Matrix Spike Dup (8013140-MSD1)</b>				Source: T180355-14 Prepared: 01/31/18 Analyzed: 02/01/18						
Mercury	3.09	0.50	ug/l	5.00	ND	61.7	75-125	0.293	20	FILT, QM-05

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### 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 8013136 - EPA 3550 ECD/GCMS

##### Blank (8013136-BLK1)

Prepared: 01/31/18 Analyzed: 02/01/18

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	10	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	200	"							
Surrogate: Tetrachloro-meta-xylene	8.93		"	10.0		89.3	35-140			
Surrogate: Decachlorobiphenyl	11.1		"	10.0		111	35-140			

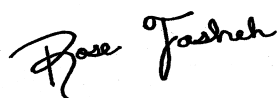
##### LCS (8013136-BS1)

Prepared: 01/31/18 Analyzed: 02/01/18

gamma-BHC (Lindane)	35.7	5.0	ug/kg	40.0		89.2	40-120			
Heptachlor	37.4	5.0	"	40.0		93.5	40-120			
Aldrin	35.8	5.0	"	40.0		89.5	40-120			
Dieldrin	37.6	5.0	"	40.0		94.1	40-120			
Endrin	37.8	5.0	"	40.0		94.4	40-120			
4,4'-DDT	38.4	5.0	"	40.0		95.9	33-147			
Surrogate: Tetrachloro-meta-xylene	8.65		"	10.0		86.5	35-140			
Surrogate: Decachlorobiphenyl	10.8		"	10.0		108	35-140			

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Project Number: 2047.15  
Project Manager: Derrick Willis

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### 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 8013136 - EPA 3550 ECD/GCMS

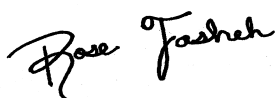
##### LCS Dup (8013136-BSD1)

Prepared: 01/31/18 Analyzed: 02/01/18

gamma-BHC (Lindane)	36.7	5.0	ug/kg	40.0		91.7	40-120	2.75	30	
Heptachlor	38.5	5.0	"	40.0		96.1	40-120	2.81	30	
Aldrin	37.3	5.0	"	40.0		93.3	40-120	4.19	30	
Dieldrin	39.4	5.0	"	40.0		98.5	40-120	4.53	30	
Endrin	39.4	5.0	"	40.0		98.6	40-120	4.34	30	
4,4'-DDT	40.9	5.0	"	40.0		102	33-147	6.45	30	
Surrogate: Tetrachloro-meta-xylene	8.65		"	10.0		86.5	35-140			
Surrogate: Decachlorobiphenyl	11.3		"	10.0		113	35-140			

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### Polychlorinated Biphenyls by EPA Method 8082 - 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 8013129 - EPA 3550 ECD/GCMS

##### Blank (8013129-BLK1)

Prepared: 01/31/18 Analyzed: 02/01/18

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	6.44		"	10.1		63.8	35-140			
Surrogate: Decachlorobiphenyl	6.77		"	10.1		67.0	35-140			

##### LCS (8013129-BS1)

Prepared: 01/31/18 Analyzed: 02/01/18

PCB-1016	61.1	10	ug/kg	101		60.5	40-130			
PCB-1260	68.5	10	"	101		67.8	40-130			
Surrogate: Tetrachloro-meta-xylene	7.17		"	10.1		71.0	35-140			
Surrogate: Decachlorobiphenyl	6.98		"	10.1		69.1	35-140			

##### LCS Dup (8013129-BSD1)

Prepared: 01/31/18 Analyzed: 02/01/18

PCB-1016	55.5	10	ug/kg	98.0		56.6	40-130	9.64	30	
PCB-1260	60.2	10	"	98.0		61.4	40-130	12.9	30	
Surrogate: Tetrachloro-meta-xylene	6.03		"	9.80		61.5	35-140			
Surrogate: Decachlorobiphenyl	6.49		"	9.80		66.2	35-140			

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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 8013121 - EPA 5035 GCMS

##### Blank (8013121-BLK1)

Prepared: 01/31/18 Analyzed: 02/01/18

Bromobenzene	ND	2.0	ug/kg
Bromochloromethane	ND	2.0	"
Bromodichloromethane	ND	2.0	"
Bromoform	ND	2.0	"
Bromomethane	ND	2.0	"
n-Butylbenzene	ND	2.0	"
sec-Butylbenzene	ND	2.0	"
tert-Butylbenzene	ND	2.0	"
Carbon tetrachloride	ND	2.0	"
Chlorobenzene	ND	2.0	"
Chloroethane	ND	2.0	"
Chloroform	ND	2.0	"
Chloromethane	ND	2.0	"
2-Chlorotoluene	ND	2.0	"
4-Chlorotoluene	ND	2.0	"
Dibromochloromethane	ND	2.0	"
1,2-Dibromo-3-chloropropane	ND	4.0	"
1,2-Dibromoethane (EDB)	ND	2.0	"
Dibromomethane	ND	2.0	"
1,2-Dichlorobenzene	ND	2.0	"
1,3-Dichlorobenzene	ND	2.0	"
1,4-Dichlorobenzene	ND	2.0	"
Dichlorodifluoromethane	ND	2.0	"
1,1-Dichloroethane	ND	2.0	"
1,2-Dichloroethane	ND	2.0	"
1,1-Dichloroethene	ND	2.0	"
cis-1,2-Dichloroethene	ND	2.0	"
trans-1,2-Dichloroethene	ND	2.0	"
1,2-Dichloropropane	ND	2.0	"
1,3-Dichloropropane	ND	2.0	"
2,2-Dichloropropane	ND	2.0	"
1,1-Dichloropropene	ND	2.0	"
cis-1,3-Dichloropropene	ND	2.0	"
trans-1,3-Dichloropropene	ND	2.0	"
Hexachlorobutadiene	ND	2.0	"
Isopropylbenzene	ND	2.0	"

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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 8013121 - EPA 5035 GCMS

#### Blank (8013121-BLK1)

Prepared: 01/31/18 Analyzed: 02/01/18

p-Isopropyltoluene	ND	2.0	ug/kg							
Methylene chloride	ND	2.0	"							
Naphthalene	ND	2.0	"							
n-Propylbenzene	ND	2.0	"							
Styrene	ND	2.0	"							
1,1,2,2-Tetrachloroethane	ND	2.0	"							
1,1,1,2-Tetrachloroethane	ND	2.0	"							
Tetrachloroethene	ND	2.0	"							
1,2,3-Trichlorobenzene	ND	2.0	"							
1,2,4-Trichlorobenzene	ND	2.0	"							
1,1,2-Trichloroethane	ND	2.0	"							
1,1,1-Trichloroethane	ND	2.0	"							
Trichloroethene	ND	2.0	"							
Trichlorofluoromethane	ND	2.0	"							
1,2,3-Trichloropropane	ND	2.0	"							
1,3,5-Trimethylbenzene	ND	2.0	"							
1,2,4-Trimethylbenzene	ND	2.0	"							
Vinyl chloride	ND	2.0	"							
Benzene	ND	2.0	"							
Toluene	ND	2.0	"							
Ethylbenzene	ND	2.0	"							
m,p-Xylene	ND	4.0	"							
o-Xylene	ND	2.0	"							

Surrogate: Toluene-d8	41.6		"	39.6		105	85.5-116
Surrogate: 4-Bromofluorobenzene	35.4		"	39.6		89.4	81.2-123
Surrogate: Dibromofluoromethane	41.9		"	39.6		106	95.7-135

#### LCS (8013121-BS1)

Prepared: 01/31/18 Analyzed: 02/01/18

Chlorobenzene	30.0	2.0	ug/kg	40.0		75.0	75-125
1,1-Dichloroethene	48.5	2.0	"	40.0		121	75-125
Trichloroethene	36.2	2.0	"	40.0		90.4	75-125
Benzene	38.3	2.0	"	40.0		95.6	75-125
Toluene	33.7	2.0	"	40.0		84.3	75-125
Surrogate: Toluene-d8	42.1		"	40.0		105	85.5-116
Surrogate: 4-Bromofluorobenzene	38.3		"	40.0		95.7	81.2-123
Surrogate: Dibromofluoromethane	43.6		"	40.0		109	95.7-135

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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 8013121 - EPA 5035 GCMS

#### LCS Dup (8013121-BSD1)

Prepared: 01/31/18 Analyzed: 02/01/18

Chlorobenzene	36.3	2.0	ug/kg	39.6		91.5	75-125	18.8	20	
1,1-Dichloroethene	47.8	2.0	"	39.6		121	75-125	1.49	20	
Trichloroethene	42.8	2.0	"	39.6		108	75-125	16.7	20	
Benzene	46.4	2.0	"	39.6		117	75-125	19.2	20	
Toluene	40.2	2.0	"	39.6		101	75-125	17.4	20	
Surrogate: Toluene-d8	41.9		"	39.6		106	85.5-116			
Surrogate: 4-Bromofluorobenzene	36.4		"	39.6		91.9	81.2-123			
Surrogate: Dibromofluoromethane	42.2		"	39.6		106	95.7-135			

### Batch 8013122 - EPA 5030 GCMS

#### Blank (8013122-BLK1)

Prepared & Analyzed: 01/31/18

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	5.0	"							
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	"							

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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 8013122 - EPA 5030 GCMS

##### Blank (8013122-BLK1)

Prepared & Analyzed: 01/31/18

1,2-Dichloroethane	ND	0.50	ug/l
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	"
p-Isopropyltoluene	ND	1.0	"
Methylene chloride	ND	1.0	"
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	1.0	"
o-Xylene	ND	0.50	"

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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 8013122 - EPA 5030 GCMS

##### Blank (8013122-BLK1)

Prepared & Analyzed: 01/31/18

Surrogate: 4-Bromofluorobenzene	20.9		ug/l	20.0		104	83.5-119			
Surrogate: Dibromofluoromethane	22.6		"	20.0		113	81-136			
Surrogate: Toluene-d8	22.1		"	20.0		111	88.8-117			

##### LCS (8013122-BS1)

Prepared: 01/31/18 Analyzed: 02/01/18

Chlorobenzene	20.7	1.0	ug/l	20.0		103	75-125			
1,1-Dichloroethene	20.9	1.0	"	20.0		104	75-125			
Trichloroethene	19.1	1.0	"	20.0		95.4	75-125			
Benzene	21.0	0.50	"	20.0		105	75-125			
Toluene	21.1	0.50	"	20.0		105	75-125			
Surrogate: 4-Bromofluorobenzene	21.4		"	20.0		107	83.5-119			
Surrogate: Dibromofluoromethane	21.7		"	20.0		109	81-136			
Surrogate: Toluene-d8	21.3		"	20.0		106	88.8-117			

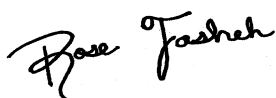
##### LCS Dup (8013122-BSD1)

Prepared: 01/31/18 Analyzed: 02/01/18

Chlorobenzene	21.0	1.0	ug/l	20.0		105	75-125	1.53	20	
1,1-Dichloroethene	20.9	1.0	"	20.0		104	75-125	0.0479	20	
Trichloroethene	20.3	1.0	"	20.0		101	75-125	6.00	20	
Benzene	21.8	0.50	"	20.0		109	75-125	4.16	20	
Toluene	21.5	0.50	"	20.0		108	75-125	1.93	20	
Surrogate: 4-Bromofluorobenzene	21.6		"	20.0		108	83.5-119			
Surrogate: Dibromofluoromethane	21.6		"	20.0		108	81-136			
Surrogate: Toluene-d8	21.2		"	20.0		106	88.8-117			

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### Semivolatile Organic Compounds by EPA Method 8270C - 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 8020137 - EPA 3550 ECD/GCMS

##### Blank (8020137-BLK1)

Prepared: 02/01/18 Analyzed: 02/05/18

Carbazole	ND	300	ug/kg
Phenol	ND	1000	"
Aniline	ND	300	"
2-Chlorophenol	ND	1000	"
1,4-Dichlorobenzene	ND	300	"
N-Nitrosodi-n-propylamine	ND	300	"
1,2,4-Trichlorobenzene	ND	300	"
4-Chloro-3-methylphenol	ND	1000	"
2-Methylnaphthalene	ND	300	"
1-Methylnaphthalene	ND	300	"
Acenaphthene	ND	300	"
4-Nitrophenol	ND	1000	"
2,4-Dinitrotoluene	ND	300	"
Pentachlorophenol	ND	1000	"
Pyrene	ND	300	"
Acenaphthylene	ND	300	"
Anthracene	ND	300	"
Benzo (a) anthracene	ND	300	"
Benzo (b) fluoranthene	ND	300	"
Benzo (k) fluoranthene	ND	300	"
Benzo (g,h,i) perylene	ND	1000	"
Benzo (a) pyrene	ND	300	"
Benzyl alcohol	ND	300	"
Bis(2-chloroethoxy)methane	ND	300	"
Bis(2-chloroethyl)ether	ND	300	"
Bis(2-chloroisopropyl)ether	ND	300	"
Bis(2-ethylhexyl)phthalate	ND	300	"
4-Bromophenyl phenyl ether	ND	300	"
Butyl benzyl phthalate	ND	300	"
4-Chloroaniline	ND	300	"
2-Chloronaphthalene	ND	300	"
4-Chlorophenyl phenyl ether	ND	300	"
Chrysene	ND	300	"
Dibenz (a,h) anthracene	ND	300	"
Dibenzofuran	ND	300	"
Di-n-butyl phthalate	ND	300	"

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### Semivolatile Organic Compounds by EPA Method 8270C - 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 8020137 - EPA 3550 ECD/GCMS

##### Blank (8020137-BLK1)

Prepared: 02/01/18 Analyzed: 02/05/18

1,2-Dichlorobenzene	ND	300	ug/kg
1,3-Dichlorobenzene	ND	300	"
2,4-Dichlorophenol	ND	1000	"
Diethyl phthalate	ND	300	"
2,4-Dimethylphenol	ND	1000	"
Dimethyl phthalate	ND	300	"
4,6-Dinitro-2-methylphenol	ND	1000	"
2,4-Dinitrophenol	ND	1000	"
2,6-Dinitrotoluene	ND	1000	"
Di-n-octyl phthalate	ND	300	"
Fluoranthene	ND	300	"
Fluorene	ND	300	"
Hexachlorobenzene	ND	1500	"
Hexachlorobutadiene	ND	300	"
Hexachlorocyclopentadiene	ND	1000	"
Hexachloroethane	ND	300	"
Indeno (1,2,3-cd) pyrene	ND	300	"
Isophorone	ND	300	"
2-Methylphenol	ND	1000	"
4-Methylphenol	ND	1000	"
Naphthalene	ND	300	"
2-Nitroaniline	ND	300	"
3-Nitroaniline	ND	300	"
4-Nitroaniline	ND	300	"
Nitrobenzene	ND	1000	"
2-Nitrophenol	ND	1000	"
N-Nitrosodimethylamine	ND	300	"
N-Nitrosodiphenylamine	ND	300	"
2,3,5,6-Tetrachlorophenol	ND	300	"
2,3,4,6-Tetrachlorophenol	ND	300	"
Phenanthrene	ND	300	"
Azobenzene	ND	300	"
2,4,5-Trichlorophenol	ND	1000	"
Pyridine	ND	300	"
2,4,6-Trichlorophenol	ND	1000	"

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.

Rose Fasheh, 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: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

## Semivolatile Organic Compounds by EPA Method 8270C - 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 8020137 - EPA 3550 ECD/GCMS

##### Blank (8020137-BLK1)

Prepared: 02/01/18 Analyzed: 02/05/18

Surrogate: 2-Fluorophenol	2550		ug/kg	3250		78.5	15-121			
Surrogate: Phenol-d6	2470		"	3250		76.0	24-113			
Surrogate: Nitrobenzene-d5	2510		"	3250		77.3	21.3-119			
Surrogate: 2-Fluorobiphenyl	2700		"	3250		83.3	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2880		"	3250		88.8	18.1-105			
Surrogate: Terphenyl-d14	3500		"	3250		108	29.1-130			

##### LCS (8020137-BS1)

Prepared: 02/01/18 Analyzed: 02/05/18

Phenol	2390	1000	ug/kg	3240		73.9	34-114			
2-Chlorophenol	2400	1000	"	3240		74.2	34-114			
1,4-Dichlorobenzene	2380	300	"	3240		73.5	34-114			
N-Nitrosodi-n-propylamine	2870	300	"	3240		88.6	30-110			
1,2,4-Trichlorobenzene	2450	300	"	3240		75.6	39-119			
4-Chloro-3-methylphenol	2120	1000	"	3240		65.4	50-130			
Acenaphthene	2530	300	"	3240		78.0	34-114			
Pentachlorophenol	1930	1000	"	3240		59.7	50-130			
Pyrene	2040	300	"	3240		62.9	30-110			
Surrogate: 2-Fluorophenol	2410		"	3240		74.4	15-121			
Surrogate: Phenol-d6	2550		"	3240		78.9	24-113			
Surrogate: Nitrobenzene-d5	2940		"	3240		91.0	21.3-119			
Surrogate: 2-Fluorobiphenyl	2660		"	3240		82.3	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2820		"	3240		87.2	18.1-105			
Surrogate: Terphenyl-d14	3310		"	3240		102	29.1-130			

##### LCS Dup (8020137-BSD1)

Prepared: 02/01/18 Analyzed: 02/05/18

Phenol	1860	1000	ug/kg	3330		55.9	34-114	24.7	42	
2-Chlorophenol	1990	1000	"	3330		59.7	34-114	18.7	40	
1,4-Dichlorobenzene	2060	300	"	3330		61.8	34-114	14.3	28	
N-Nitrosodi-n-propylamine	2220	300	"	3330		66.5	30-110	25.6	38	
1,2,4-Trichlorobenzene	2250	300	"	3330		67.4	39-119	8.48	28	
4-Chloro-3-methylphenol	2550	1000	"	3330		76.5	50-130	18.6	42	
Acenaphthene	2440	300	"	3330		73.3	34-114	3.34	31	
Pentachlorophenol	2160	1000	"	3330		65.0	50-130	11.4	50	
Pyrene	2090	300	"	3330		62.7	30-110	2.56	31	
Surrogate: 2-Fluorophenol	2230		"	3330		66.9	15-121			
Surrogate: Phenol-d6	2040		"	3330		61.1	24-113			

SunStar Laboratories, Inc.

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Rose Fasheh, 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: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/07/18 16:12

### Semivolatile Organic Compounds by EPA Method 8270C - 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 8020137 - EPA 3550 ECD/GCMS

##### LCS Dup (8020137-BSD1)

Prepared: 02/01/18 Analyzed: 02/05/18

Surrogate: Nitrobenzene-d5	2080		ug/kg	3330		62.3	21.3-119			
Surrogate: 2-Fluorobiphenyl	2480		"	3330		74.4	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2880		"	3330		86.4	18.1-105			
Surrogate: Terphenyl-d14	3330		"	3330		100	29.1-130			

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.

Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/07/18 16:12

### 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).

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-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.

FILT The sample was filtered prior to analysis.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

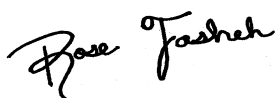
NR Not Reported

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.*



Rose Fasheh, Project Manager



**SunStar  
Laboratories**

**Chain of Custody Record**

25712 Commerce Drive, Lake Forest, CA 92630  
949-297-5020

Client: Woodhill Gate Date: 1/30/18 Page: 1 of 2  
Address: 24411 Bridge Road Dr. Agua Dulce, CA Project Name: Holland 3 / Fairfax  
Phone: 949-716-0050 Fax:  Collector: G. Baack Client Project #: 2047.15  
Project Manager: Derrick Willis Batch #: 1180335 EDF #:

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	8082 PCBs	8081 OCPs	Laboratory ID #	Comments/Preservative	Total # of containers				
B-1-1.0	1/29/18	7:55	S	10A+61													01		1				
B-1-5.0		8:14	S	10A+155													02		1				
B-1-10.0		8:19	S	"													03		1				
B-1-15.0		8:24	S	"													04		1				
B-1-20.0		8:29	S	"													05		1				
B-1-25.0		9:15	S	"													06		1				
B-1-30.0		9:22	S	"													07		1				
B-2-1.0		13:30	S	10A+61													08		1				
B-2-5.0		13:42	S	"													09		1				
B-2-10.0		13:48	S	"													10		1				
B-2-15.0		13:55	S	"													11		1				
B-2-20.0		14:00	S	"													12		1				
B-2-25.0		14:12	S	"													13		1				
B-2		14:30	S	10A+61													14		1				
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>1/30/18 14:01</u>			Received by: (signature) <u>[Signature]</u> Date / Time <u>1-30-18 14:01</u>	Total # of containers <u>100</u>																			
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>1-30-18 14:10</u>			Received by: (signature) <u>[Signature]</u> Date / Time <u>1-30-18 14:10</u>	Chain of Custody seals Y/N/NA <u>Y/N/NA</u>																			
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>1-30-18 16:02</u>			Received by: (signature) <u>[Signature]</u> Date / Time <u>1/30/18 16:02</u>	Received good condition/cold <u>4.7</u>																			
Sample/Disposal Instructions: Disposal @ \$2.00 each				Return to client				Pickup				Turn around time: <u>Standard</u>											

COC 172265





**SunStar  
Laboratories**

**Chain of Custody Record**

25712 Commerce Centre Drive, Lake Forest, CA 92630  
949-297-5020

Client: WORTH CAFE  
Address: 24411 Bridge Road, Dr. Laguna Hills, CA  
Phone: 949-765-0050 Fax: \_\_\_\_\_  
Project Manager: Donch & Lillis

Date: 1/30/18 Page: 2 of 2  
Project Name: Holladay Fairfax  
Collector: G. Isaac Client Project #: 2047.15  
Batch #: 1730335 EDF #: \_\_\_\_\_

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	8082 PCBs	8081 OCPs	Laboratory ID #	Comments/Preservative	Total # of containers
B-6-1.0	1/29/18	15:37	✓	10A-51													15	✓	100
B-6-5.0		15:45	✓	10A-1A5													16	✓	100
B-6-10.0		15:51	✓	"													17	✓	100
B-6-15.0		15:56	✓	"													18	✓	100
B-6-20.0		16:01	✓	"													19	✓	100
B-6-25.0		16:06	✓	"													20	✓	100
B-6-30.0		16:15	✓	"													21	✓	100
B-11-1.0		16:00	✓	10A-51													22	✓	100
B-11-5.0		16:11	✓	"													23	✓	100
B-11-10.0		16:15	✓	"													24	✓	100
B-11-15.0		16:20	✓	"													25	✓	100
B-11-20.0		16:25	✓	"													26	✓	100
B-11-25.0		16:30	✓	"													27	✓	100
B-11		11:50	✓	10A-1A5													28	✓	100
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>1/30/18 14:01</u> Received by: (signature) <u>[Signature]</u> Date / Time <u>1-30-18 14:01</u>					Total # of containers <u>100</u>														
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>1-30-18 14:10</u> Received by: (signature) <u>[Signature]</u> Date / Time <u>1-30-18 14:10</u>					Chain of Custody seals Y/N/NA <u>4.7</u>														
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>1-30-18 16:02</u> Received by: (signature) <u>[Signature]</u> Date / Time <u>1/30/18 16:02</u>					Received good condition/cold <u>4.7</u>														
Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____					Turn around time: <u>Standard</u>														



## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T180355

Client Name: Northgate - Laguna Hills Project: Holland 3/Fairfax

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: Joey Date/Time Courier Received: 1-30-18 14:10

Lab Received by: Brian Date/Time Lab Received: 1-30-18 14:10

Total number of coolers received: 0

Temperature: Cooler #1	4.9 °C +/- the CF (- 0.2°C) =	4.7 °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

**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: BC 1-30-18

**Comments:**



## SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # T180355

▪ **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
- ☐ Mislabeled as to tests, preservatives, etc.
- ☐ Holding time expired – list sample ID and test
- ☐ Not preserved/Improper preservative used
- ☐ Without Labels, no information on containers
- ☐ Other

**Comments:**

Two trip blanks were not listed on COC, logged in based on label information.

Sample fractioning only if broken container compromises other samples or if out of temp reading impacts more than one cooler

Fraction													Preser.
VOA													

Rose Fasheh

---

**From:** Derrick Willis [derrick.willis@ngem.com]  
**Sent:** Tuesday, January 30, 2018 6:00 PM  
**To:** Rose Fasheh  
**Cc:** Dana Brown  
**Subject:** Holland 3rd/Fairfax  
**Attachments:** 2047.15 - COC\_2018.01.30.pdf

Hi Rose,  
Here is the COC filled out for 2047.15. Please let me know if you have any questions.  
Thanks  
Derrick



**Derrick S. Willis**  
Principal

***Northgate Environmental Management, Inc.***

24411 Ridge Route Drive, Suite 130, Laguna Hills, CA 92653  
phone (949) 716-0050 ext. 101; cell (949) 375-7004; fax (949) 315-3365  
<http://www.ngem.com>

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# Sunstar Laboratories

## Chain of Custody Record

25712 Commerce Drive, Lake Forest, CA 92630  
949-297-5020

Client: 100244 GATE Date: 11/30/18 Page: 1 of 2  
Address: 24411 Bridge Road Dr. Legas Villas, CA Project Name: Holland 3 / Fairfax  
Phone: 949-716-0050 Fax:  Collector: G. Farnell Client Project #: 204715  
Project Manager: Danish Willis Batch #: 7180355 EDF #:

Sample ID	Date	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	8082 PCBs	8081 OCPs	Laboratory ID #	Comments/Preservative	Total # of containers		
B-1-1.0	11/29/18	7:55	✓	100-461	✓			✓		✓		✓	✓		✓	✓	01		1		
B-1-5.0		8:14	✓	100-461	✓			✓		✓		✓	✓		✓	✓	02		1		
B-1-10.0		8:14	✓	100-461	✓			✓		✓		✓	✓		✓	✓	03		1		
B-1-15.0		8:24	✓	100-461	✓			✓		✓		✓	✓		✓	✓	04		1		
B-1-20.0		8:24	✓	100-461	✓			✓		✓		✓	✓		✓	✓	05		1		
B-1-25.0		9:15	✓	100-461	✓			✓		✓		✓	✓		✓	✓	06		1		
B-1-30.0		9:22	✓	100-461	✓			✓		✓		✓	✓		✓	✓	07		1		
B-2-1.0		13:30	✓	100-461	✓			✓		✓		✓	✓		✓	✓	08		1		
B-2-5.0		13:42	✓	100-461	✓			✓		✓		✓	✓		✓	✓	09		1		
B-2-10.0		13:48	✓	100-461	✓			✓		✓		✓	✓		✓	✓	10		1		
B-2-15.0		13:55	✓	100-461	✓			✓		✓		✓	✓		✓	✓	11		1		
B-2-20.0		14:00	✓	100-461	✓			✓		✓		✓	✓		✓	✓	12		1		
B-2-25.0		14:12	✓	100-461	✓			✓		✓		✓	✓		✓	✓	13		1		
B-2		14:30	✓	100-461	✓			✓		✓		✓	✓		✓	✓	14		1		
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>11/30/18</u>					Received by: (signature) <u>[Signature]</u> Date / Time <u></u>					Chain of Custody seals: <u>Y/N/A</u>					Total # of containers <u>100</u>					Notes	
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u></u>					Received by: (signature) <u>[Signature]</u> Date / Time <u></u>					Received good condition/cold <u>Y/N/A</u>					Seals intact? <u>Y/N/A</u>						
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u></u>					Received by: (signature) <u>[Signature]</u> Date / Time <u></u>					Turn around time: <u>Standard</u>											

COC 172265



## Chain of Custody Record

25712 Commerce Centre Drive, Lake Forest, CA 92630  
949-297-5020

Client: NORTHSTAR

Address: 24411 Ridge Road, Dr., Laguna Hills, CA

Phone: 949-716-2005 Fax: 949-716-2005

Project Manager: Anthony L. Williams

Date: 1/29/18

Project Name: Polio

Collector: G. J. D.

Batch #: 11803

Page: 5 Of 5

2017/8

Client Project #: 4047-1

EDT#:

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	8082 PCBs	8081 OCPs	Laboratory ID #	Comments/Preservative	Total # of containers
2-6-1.0	1/29/18	15:32	✓	1004-G1	X			X		X		X	X		X	X	15		
2-6-5.0		15:45	✓	1004-1A5													16		
2-6-10.0		15:51	✓	"	X			X		X		X	X				17		
2-6-15.0		15:56	✓	"											X		18		
2-6-20.0		16:09	✓	"	X			X		X		X	X				19		
2-6-25.0		16:06	✓	"											X		20		
2-6-30.0		16:15	✓	"						X							21		
2-11-1.0		10:00	✓	1004-G1	X			X		X		X	X		X	X	22		
2-11-5.0		10:11	✓	"													23		
2-11-10.0		10:15	✓	"	X			X		X		X	X				24		
2-11-15.0		10:20	✓	"						X					X		25		
2-11-20.0		10:25	✓	"	X			X		X		X	X				26		
2-11-25.0		10:30	✓	"						X							27		
2-11	✓	11:50	✓	1004-G1	X					X		X					28		
Reinquired by: (signature)	Date / Time	Received by: (signature)	Date / Time	Total # of containers	Chain of Custody seals Y/N/A	Seals intact? Y/N/A	Received good condition/cold	Turn around time: <i>Standard</i>	Notes										
<i>[Signature]</i>	1/30/18			100			✓												

COC 172249

**WORK ORDER**

**T180355**

**Client:** Northgate Environmental Management -- Laguna  
**Project:** 3rd & Fairfax

**Project Manager:** Rose Fasheh  
**Project Number:** 2047.15

**Report To:**

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

Date Due: 02/07/18 17:00 (5 day TAT)

Received By: Brian Charon

Date Received: 01/30/18 16:02

Logged In By: Brian Charon

Date Logged In: 01/30/18 16:47

Samples Received at: **4.7°C**

Custody Seals No Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
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**T180355-01 B-1-1.0 [Soil] Sampled 01/29/18 07:55 (GMT-08:00) Pacific Time**  
**(US &**

6010 Title 22	02/07/18 15:00	5	07/28/18 07:55
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 07:55
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 07:55
8081 Pesticides	02/07/18 15:00	5	02/12/18 07:55
8082 PCB	02/07/18 15:00	5	02/12/18 07:55
8260 5035	02/07/18 15:00	5	02/12/18 07:55
8270C	02/07/18 15:00	5	02/12/18 07:55

**T180355-02 B-1- 5.0 [Soil] Sampled 01/29/18 08:14 (GMT-08:00) Pacific Time**

**(US &**

**[NO ANALYSES]**

**T180355-03 B-1- 10.0 [Soil] Sampled 01/29/18 08:19 (GMT-08:00) Pacific Time**  
**(US &**

6010 Title 22	02/07/18 15:00	5	07/28/18 08:19
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 08:19
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 08:19
8082 PCB	02/07/18 15:00	5	02/12/18 08:19
8260 5035	02/07/18 15:00	5	02/12/18 08:19
8270C	02/07/18 15:00	5	02/12/18 08:19

**WORK ORDER**

**T180355**

**Client:** Northgate Environmental Management -- Laguna      **Project Manager:** Rose Fasheh  
**Project:** 3rd & Fairfax      **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
<b>T180355-04 B-1- 15.0 [Soil] Sampled 01/29/18 08:24 (GMT-08:00) Pacific Time HOLD</b> (US & [NO ANALYSES]				
<b>T180355-05 B-1- 20.0 [Soil] Sampled 01/29/18 08:29 (GMT-08:00) Pacific Time</b> (US &				
6010 Title 22	02/07/18 15:00	5	07/28/18 08:29	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 08:29	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 08:29	
8082 PCB	02/07/18 15:00	5	02/12/18 08:29	
8260 5035	02/07/18 15:00	5	02/12/18 08:29	
8270C	02/07/18 15:00	5	02/12/18 08:29	
<b>T180355-06 B-1- 25.0 [Soil] Sampled 01/29/18 09:15 (GMT-08:00) Pacific Time HOLD</b> (US & [NO ANALYSES]				
<b>T180355-07 B-1- 30.0 [Soil] Sampled 01/29/18 09:22 (GMT-08:00) Pacific Time HOLD</b> (US & [NO ANALYSES]				
<b>T180355-08 B-2- 1.0 [Soil] Sampled 01/29/18 13:30 (GMT-08:00) Pacific Time</b> (US &				
6010 Title 22	02/07/18 15:00	5	07/28/18 13:30	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 13:30	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 13:30	
8081 Pesticides	02/07/18 15:00	5	02/12/18 13:30	
8082 PCB	02/07/18 15:00	5	02/12/18 13:30	
8260 5035	02/07/18 15:00	5	02/12/18 13:30	
8270C	02/07/18 15:00	5	02/12/18 13:30	
<b>T180355-09 B-2- 5.0 [Soil] Sampled 01/29/18 13:42 (GMT-08:00) Pacific Time HOLD</b> (US & [NO ANALYSES]				

**WORK ORDER**

**T180355**

**Client:** Northgate Environmental Management -- Laguna      **Project Manager:** Rose Fasheh  
**Project:** 3rd & Fairfax      **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
<b>T180355-10 B-2- 10.0 [Soil] Sampled 01/29/18 13:48 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Title 22	02/07/18 15:00	5	07/28/18 13:48	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 13:48	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 13:48	
8082 PCB	02/07/18 15:00	5	02/12/18 13:48	
8260 5035	02/07/18 15:00	5	02/12/18 13:48	
8270C	02/07/18 15:00	5	02/12/18 13:48	
<b>T180355-11 B-2- 15.0 [Soil] Sampled 01/29/18 13:55 (GMT-08:00) Pacific Time HOLD</b>				
<b>(US &amp;</b>				
<b>[NO ANALYSES]</b>				
<b>T180355-12 B-2- 20.0 [Soil] Sampled 01/29/18 14:00 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Title 22	02/07/18 15:00	5	07/28/18 14:00	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 14:00	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 14:00	
8082 PCB	02/07/18 15:00	5	02/12/18 14:00	
8260 5035	02/07/18 15:00	5	02/12/18 14:00	
8270C	02/07/18 15:00	5	02/12/18 14:00	
<b>T180355-13 B-2- 25.0 [Soil] Sampled 01/29/18 14:12 (GMT-08:00) Pacific Time HOLD</b>				
<b>(US &amp;</b>				
<b>[NO ANALYSES]</b>				
<b>T180355-14 B-2 [Water] Sampled 01/29/18 14:30 (GMT-08:00) Pacific Time (US</b>				
<b>&amp;</b>				
6010 Title 22	02/07/18 15:00	5	07/28/18 14:30	
8015 CC (D/MO)	02/07/18 15:00	5	02/05/18 14:30	
8015 m Gas Purge	02/07/18 15:00	5	02/12/18 14:30	
8260	02/07/18 15:00	5	02/12/18 14:30	

**WORK ORDER**

**T180355**

<b>Client:</b> Northgate Environmental Management -- Laguna	<b>Project Manager:</b> Rose Fasheh
<b>Project:</b> 3rd & Fairfax	<b>Project Number:</b> 2047.15

Analysis	Due	TAT	Expires	Comments
<b>T180355-15 B-6- 1.0 [Soil] Sampled 01/29/18 15:37 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Title 22	02/07/18 15:00	5	07/28/18 15:37	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 15:37	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 15:37	
8081 Pesticides	02/07/18 15:00	5	02/12/18 15:37	
8082 PCB	02/07/18 15:00	5	02/12/18 15:37	
8260 5035	02/07/18 15:00	5	02/12/18 15:37	
8270C	02/07/18 15:00	5	02/12/18 15:37	
<b>T180355-16 B-6- 5.0 [Soil] Sampled 01/29/18 15:45 (GMT-08:00) Pacific Time HOLD</b>				
<b>(US &amp;</b>				
[NO ANALYSES]				
<b>T180355-17 B-6- 10.0 [Soil] Sampled 01/29/18 15:51 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Title 22	02/07/18 15:00	5	07/28/18 15:51	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 15:51	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 15:51	
8082 PCB	02/07/18 15:00	5	02/12/18 15:51	
8260 5035	02/07/18 15:00	5	02/12/18 15:51	
8270C	02/07/18 15:00	5	02/12/18 15:51	
<b>T180355-18 B-6- 15.0 [Soil] Sampled 01/29/18 15:56 (GMT-08:00) Pacific Time HOLD</b>				
<b>(US &amp;</b>				
[NO ANALYSES]				
<b>T180355-19 B-6- 20.0 [Soil] Sampled 01/29/18 16:01 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Title 22	02/07/18 15:00	5	07/28/18 16:01	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 16:01	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 16:01	
8082 PCB	02/07/18 15:00	5	02/12/18 16:01	
8260 5035	02/07/18 15:00	5	02/12/18 16:01	
8270C	02/07/18 15:00	5	02/12/18 16:01	
<b>T180355-20 B-6- 25.0 [Soil] Sampled 01/29/18 16:06 (GMT-08:00) Pacific Time HOLD</b>				
<b>(US &amp;</b>				
[NO ANALYSES]				



**WORK ORDER**

**T180355**

**Client:** Northgate Environmental Management -- Laguna      **Project Manager:** Rose Fasheh  
**Project:** 3rd & Fairfax      **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
<b>T180355-21 B-6- 30.0 [Soil] Sampled 01/29/18 16:15 (GMT-08:00) Pacific Time HOLD</b> (US & [NO ANALYSES]				
<b>T180355-22 B-11- 1.0 [Soil] Sampled 01/29/18 10:00 (GMT-08:00) Pacific Time</b> (US &				
6010 Title 22	02/07/18 15:00	5	07/28/18 10:00	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 10:00	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 10:00	
8081 Pesticides	02/07/18 15:00	5	02/12/18 10:00	
8082 PCB	02/07/18 15:00	5	02/12/18 10:00	
8260 5035	02/07/18 15:00	5	02/12/18 10:00	
8270C	02/07/18 15:00	5	02/12/18 10:00	
<b>T180355-23 B-11- 5.0 [Soil] Sampled 01/29/18 10:11 (GMT-08:00) Pacific Time HOLD</b> (US & [NO ANALYSES]				
<b>T180355-24 B-11- 10.0 [Soil] Sampled 01/29/18 10:15 (GMT-08:00) Pacific Time</b> (US &				
6010 Title 22	02/07/18 15:00	5	07/28/18 10:15	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 10:15	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 10:15	
8082 PCB	02/07/18 15:00	5	02/12/18 10:15	
8260 5035	02/07/18 15:00	5	02/12/18 10:15	
8270C	02/07/18 15:00	5	02/12/18 10:15	
<b>T180355-25 B-11- 15.0 [Soil] Sampled 01/29/18 10:20 (GMT-08:00) Pacific Time HOLD</b> (US & [NO ANALYSES]				
<b>T180355-26 B-11- 20.0 [Soil] Sampled 01/29/18 10:25 (GMT-08:00) Pacific Time</b> (US &				
6010 Title 22	02/07/18 15:00	5	07/28/18 10:25	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 10:25	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 10:25	
8082 PCB	02/07/18 15:00	5	02/12/18 10:25	
8260 5035	02/07/18 15:00	5	02/12/18 10:25	
8270C	02/07/18 15:00	5	02/12/18 10:25	

**WORK ORDER**

**T180355**

**Client:** Northgate Environmental Management -- Laguna      **Project Manager:** Rose Fasheh  
**Project:** 3rd & Fairfax      **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
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**T180355-27 B-11- 25.0 [Soil] Sampled 01/29/18 10:30 (GMT-08:00) Pacific Time HOLD**  
(US &  
[NO ANALYSES]

**T180355-28 B-11 [Water] Sampled 01/29/18 11:50 (GMT-08:00) Pacific Time**  
(US &

8015 CC (D/MO)	02/07/18 15:00	5	02/05/18 11:50
8015 m Gas Purge	02/07/18 15:00	5	02/12/18 11:50
8260	02/07/18 15:00	5	02/12/18 11:50

**T180355-29 TB-20180129-A [Water] Sampled 01/29/18 10:30 (GMT-08:00) HOLD**  
**Pacific Time (US &**  
[NO ANALYSES]

**T180355-30 TB-20180129-B [Water] Sampled 01/29/18 10:30 (GMT-08:00) HOLD**  
**Pacific Time (US &**  
[NO ANALYSES]

**Analysis groups included in this work order**

6010 Title 22

subgroup 6010B T22      7470/71 Hg



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

08 February 2018

Derrick Willis  
Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
Laguna Hills, CA 92653  
RE: 3rd & Fairfax

Enclosed are the results of analyses for samples received by the laboratory on 01/30/18 16:02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rose Fasheh  
Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

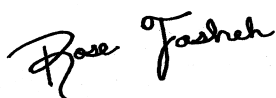
**Reported:**  
02/08/18 18:10

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-5-1.0	T180352-02	Soil	01/30/18 07:31	01/30/18 16:02
B-5-10.0	T180352-04	Soil	01/30/18 07:55	01/30/18 16:02
B-5-20.0	T180352-06	Soil	01/30/18 08:03	01/30/18 16:02
B-14-1.0	T180352-09	Soil	01/30/18 08:45	01/30/18 16:02
B-14-10.0	T180352-11	Soil	01/30/18 08:59	01/30/18 16:02
B-14-20.0	T180352-13	Soil	01/30/18 09:07	01/30/18 16:02
B-14	T180352-16	Water	01/30/18 09:50	01/30/18 16:02
B-3-1.0	T180352-17	Soil	01/30/18 10:35	01/30/18 16:02
B-3-10.0	T180352-19	Soil	01/30/18 10:48	01/30/18 16:02
B-3-20.0	T180352-21	Soil	01/30/18 10:57	01/30/18 16:02
B-3	T180352-24	Water	01/30/18 12:05	01/30/18 16:02
B-13-1.0	T180352-25	Soil	01/30/18 13:07	01/30/18 16:02
B-13-10.0	T180352-27	Soil	01/30/18 13:18	01/30/18 16:02
B-13-15.0	T180352-28	Soil	01/30/18 13:22	01/30/18 16:02
B-13	T180352-32	Water	01/30/18 14:03	01/30/18 16:02

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.*



Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 18:10

### DETECTIONS SUMMARY

**Sample ID:** B-5-1.0

**Laboratory ID:** T180352-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	81	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	280	10	mg/kg	EPA 8015B	
Barium	110	1.0	mg/kg	EPA 6010B	
Chromium	19	2.0	mg/kg	EPA 6010B	
Cobalt	11	2.0	mg/kg	EPA 6010B	
Copper	9.2	1.0	mg/kg	EPA 6010B	
Nickel	13	2.0	mg/kg	EPA 6010B	
Vanadium	37	5.0	mg/kg	EPA 6010B	
Zinc	47	1.0	mg/kg	EPA 6010B	

**Sample ID:** B-5-10.0

**Laboratory ID:** T180352-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C6-C12 (GRO)	380	350	ug/kg	EPA 8015B/5035	
C13-C28 (DRO)	68	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	65	10	mg/kg	EPA 8015B	
Barium	76	1.0	mg/kg	EPA 6010B	
Chromium	17	2.0	mg/kg	EPA 6010B	
Cobalt	9.4	2.0	mg/kg	EPA 6010B	
Copper	8.2	1.0	mg/kg	EPA 6010B	
Nickel	17	2.0	mg/kg	EPA 6010B	
Vanadium	25	5.0	mg/kg	EPA 6010B	
Zinc	36	1.0	mg/kg	EPA 6010B	
Benzene	3.6	1.7	ug/kg	EPA 8260B/5035	

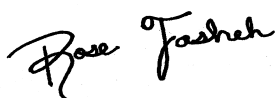
**Sample ID:** B-5-20.0

**Laboratory ID:** T180352-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	35	1.0	mg/kg	EPA 6010B	
Chromium	16	2.0	mg/kg	EPA 6010B	
Cobalt	7.2	2.0	mg/kg	EPA 6010B	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

Sample ID: B-5-20.0

Laboratory ID: T180352-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Copper	7.2	1.0	mg/kg	EPA 6010B	
Nickel	12	2.0	mg/kg	EPA 6010B	
Vanadium	25	5.0	mg/kg	EPA 6010B	
Zinc	22	1.0	mg/kg	EPA 6010B	

Sample ID: B-14-1.0

Laboratory ID: T180352-09

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C29-C40 (MORO)	49	10	mg/kg	EPA 8015B	
Barium	78	1.0	mg/kg	EPA 6010B	
Chromium	28	2.0	mg/kg	EPA 6010B	
Cobalt	15	2.0	mg/kg	EPA 6010B	
Copper	6.1	1.0	mg/kg	EPA 6010B	
Nickel	18	2.0	mg/kg	EPA 6010B	
Vanadium	50	5.0	mg/kg	EPA 6010B	
Zinc	41	1.0	mg/kg	EPA 6010B	

Sample ID: B-14-10.0

Laboratory ID: T180352-11

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	24	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	110	10	mg/kg	EPA 8015B	
Barium	39	1.0	mg/kg	EPA 6010B	
Chromium	19	2.0	mg/kg	EPA 6010B	
Cobalt	8.3	2.0	mg/kg	EPA 6010B	
Copper	7.3	1.0	mg/kg	EPA 6010B	
Nickel	18	2.0	mg/kg	EPA 6010B	
Vanadium	20	5.0	mg/kg	EPA 6010B	
Zinc	19	1.0	mg/kg	EPA 6010B	

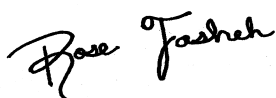
Sample ID: B-14-20.0

Laboratory ID: T180352-13

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	33	1.0	mg/kg	EPA 6010B	

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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.



Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 18:10

**Sample ID:** B-14-20.0

**Laboratory ID:** T180352-13

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chromium	14	2.0		mg/kg	EPA 6010B	
Cobalt	7.2	2.0		mg/kg	EPA 6010B	
Copper	5.6	1.0		mg/kg	EPA 6010B	
Nickel	12	2.0		mg/kg	EPA 6010B	
Vanadium	20	5.0		mg/kg	EPA 6010B	
Zinc	16	1.0		mg/kg	EPA 6010B	

**Sample ID:** B-14

**Laboratory ID:** T180352-16

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	0.71	0.50		mg/l	EPA 8015B	

**Sample ID:** B-3-1.0

**Laboratory ID:** T180352-17

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	33	10		mg/kg	EPA 8015B	
C29-C40 (MORO)	180	10		mg/kg	EPA 8015B	
Barium	79	1.0		mg/kg	EPA 6010B	
Chromium	15	2.0		mg/kg	EPA 6010B	
Cobalt	9.6	2.0		mg/kg	EPA 6010B	
Copper	8.5	1.0		mg/kg	EPA 6010B	
Nickel	9.3	2.0		mg/kg	EPA 6010B	
Vanadium	31	5.0		mg/kg	EPA 6010B	
Zinc	27	1.0		mg/kg	EPA 6010B	

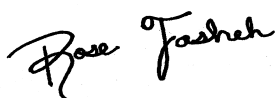
**Sample ID:** B-3-10.0

**Laboratory ID:** T180352-19

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	18	10		mg/kg	EPA 8015B	
Barium	60	1.0		mg/kg	EPA 6010B	
Chromium	22	2.0		mg/kg	EPA 6010B	
Cobalt	11	2.0		mg/kg	EPA 6010B	
Copper	8.0	1.0		mg/kg	EPA 6010B	
Nickel	21	2.0		mg/kg	EPA 6010B	

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Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 18:10

**Sample ID:** B-3-10.0

**Laboratory ID:** T180352-19

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Vanadium	27	5.0		mg/kg	EPA 6010B	
Zinc	34	1.0		mg/kg	EPA 6010B	
Benzene	2.2	1.7		ug/kg	EPA 8260B/5035	

**Sample ID:** B-3-20.0

**Laboratory ID:** T180352-21

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	14	10		mg/kg	EPA 8015B	
Barium	39	1.0		mg/kg	EPA 6010B	
Chromium	18	2.0		mg/kg	EPA 6010B	
Cobalt	8.9	2.0		mg/kg	EPA 6010B	
Copper	8.1	1.0		mg/kg	EPA 6010B	
Nickel	16	2.0		mg/kg	EPA 6010B	
Vanadium	27	5.0		mg/kg	EPA 6010B	
Zinc	30	1.0		mg/kg	EPA 6010B	
Benzene	7.6	1.9		ug/kg	EPA 8260B/5035	
Toluene	2.3	1.9		ug/kg	EPA 8260B/5035	

**Sample ID:** B-3

**Laboratory ID:** T180352-24

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	2.0	0.50		mg/l	EPA 8015B	
Barium	110	50		ug/l	EPA 6010b	
Molybdenum	62	50		ug/l	EPA 6010b	

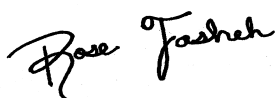
**Sample ID:** B-13-1.0

**Laboratory ID:** T180352-25

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	250	10		mg/kg	EPA 8015B	
C29-C40 (MORO)	890	10		mg/kg	EPA 8015B	
Barium	64	1.0		mg/kg	EPA 6010B	
Chromium	20	2.0		mg/kg	EPA 6010B	
Cobalt	12	2.0		mg/kg	EPA 6010B	
Copper	6.6	1.0		mg/kg	EPA 6010B	

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Sample ID: B-13-1.0

Laboratory ID: T180352-25

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Nickel	13	2.0	mg/kg	EPA 6010B	
Vanadium	40	5.0	mg/kg	EPA 6010B	
Zinc	32	1.0	mg/kg	EPA 6010B	

Sample ID: B-13-10.0

Laboratory ID: T180352-27

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	22	10	mg/kg	EPA 8015B	
Barium	58	1.0	mg/kg	EPA 6010B	
Chromium	19	2.0	mg/kg	EPA 6010B	
Cobalt	11	2.0	mg/kg	EPA 6010B	
Copper	10	1.0	mg/kg	EPA 6010B	
Nickel	20	2.0	mg/kg	EPA 6010B	
Vanadium	30	5.0	mg/kg	EPA 6010B	
Zinc	32	1.0	mg/kg	EPA 6010B	
Benzene	2.4	2.1	ug/kg	EPA 8260B/5035	

Sample ID: B-13-15.0

Laboratory ID: T180352-28

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	15	10	mg/kg	EPA 8015B	
Barium	370	1.0	mg/kg	EPA 6010B	
Chromium	18	2.0	mg/kg	EPA 6010B	
Cobalt	19	2.0	mg/kg	EPA 6010B	
Copper	11	1.0	mg/kg	EPA 6010B	
Nickel	28	2.0	mg/kg	EPA 6010B	
Vanadium	46	5.0	mg/kg	EPA 6010B	
Zinc	34	1.0	mg/kg	EPA 6010B	
Benzene	4.4	1.7	ug/kg	EPA 8260B/5035	

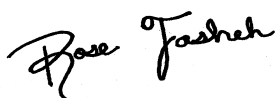
Sample ID: B-13

Laboratory ID: T180352-32

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	1.2	0.50	mg/l	EPA 8015B	

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Project Manager: Derrick Willis

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Project Number: 2047.15  
Project Manager: Derrick Willis

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### B-5-1.0

### T180352-02 (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	330	ug/kg	1	8020130	02/01/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		101 %	65-135		"	"	"	"	

#### Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	81	10	mg/kg	1	8020522	02/05/18	02/06/18	EPA 8015B	
C29-C40 (MORO)	280	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		86.5 %	65-135		"	"	"	"	

#### Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	110	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	19	2.0	"	"	"	"	"	"	
Cobalt	11	2.0	"	"	"	"	"	"	
Copper	9.2	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	13	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	37	5.0	"	"	"	"	"	"	
Zinc	47	1.0	"	"	"	"	"	"	

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Reported:  
02/08/18 18:10

**B-5-1.0**  
**T180352-02 (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**

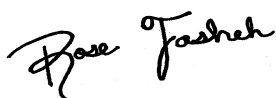
Mercury	ND	0.10	mg/kg	1	8020238	02/02/18	02/05/18	EPA 7471A Soil	
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**Organochlorine Pesticides by EPA Method 8081A**

alpha-BHC	ND	500	ug/kg	100	8020134	02/01/18	02/05/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	500	"	"	"	"	"	"	R-07
beta-BHC	ND	500	"	"	"	"	"	"	R-07
delta-BHC	ND	500	"	"	"	"	"	"	R-07
Heptachlor	ND	500	"	"	"	"	"	"	R-07
Aldrin	ND	500	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	500	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	500	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	500	"	"	"	"	"	"	R-07
Endosulfan I	ND	500	"	"	"	"	"	"	R-07
4,4'-DDE	ND	500	"	"	"	"	"	"	R-07
Dieldrin	ND	500	"	"	"	"	"	"	R-07
Endrin	ND	500	"	"	"	"	"	"	R-07
4,4'-DDD	ND	500	"	"	"	"	"	"	R-07
Endosulfan II	ND	500	"	"	"	"	"	"	R-07
4,4'-DDT	ND	500	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	500	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	500	"	"	"	"	"	"	R-07
Methoxychlor	ND	1000	"	"	"	"	"	"	R-07
Endrin ketone	ND	500	"	"	"	"	"	"	R-07
Toxaphene	ND	20000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		%	35-140		"	"	"	"	S-01
Surrogate: Decachlorobiphenyl		%	35-140		"	"	"	"	S-01

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 18:10

**B-5-1.0**

**T180352-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Polychlorinated Biphenyls by EPA Method 8082**

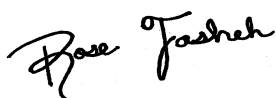
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		62.7 %	35-140		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		52.4 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.3	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	

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Reported:  
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**B-5-1.0**  
**T180352-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by EPA Method 8260B**

1,4-Dichlorobenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	
Trichloroethene	ND	1.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	

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**B-5-1.0**  
**T180352-02 (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**

1,2,4-Trimethylbenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Benzene	ND	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.3	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		89.8 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		112 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-5-1.0**  
**T180352-02 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager





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Laguna Hills CA, 92653

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-5-1.0**  
**T180352-02 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	66.7 %	15-121	"	"	"	"	"	"
Surrogate: Phenol-d6	75.3 %	24-113	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	78.6 %	21.3-119	"	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	84.9 %	32.4-102	"	"	"	"	"	"
Surrogate: 2,4,6-Tribromophenol	104 %	18.1-105	"	"	"	"	"	"
Surrogate: Terphenyl-d14	96.0 %	29.1-130	"	"	"	"	"	"

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-5-10.0**  
**T180352-04 (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**

<b>C6-C12 (GRO)</b>	<b>380</b>	350	ug/kg	1	8020130	02/01/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		106 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

<b>C13-C28 (DRO)</b>	<b>68</b>	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
<b>C29-C40 (MORO)</b>	<b>65</b>	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		69.5 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>76</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>17</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>9.4</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>8.2</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>17</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>25</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>36</b>	1.0	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 18:10

**B-5-10.0**  
**T180352-04 (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	8020238	02/02/18	02/05/18	EPA 7471A Soil	
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**Polychlorinated Biphenyls by EPA Method 8082**

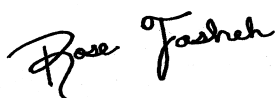
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		56.5 %	35-140		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		50.5 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.5	"	"	"	"	"	"	

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Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-5-10.0**  
**T180352-04 (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**

1,2-Dibromoethane (EDB)	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 18:10

**B-5-10.0**  
**T180352-04 (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**

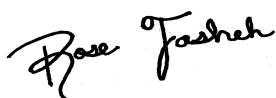
Trichloroethene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
<b>Benzene</b>	<b>3.6</b>	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.5	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.0 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.5 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		112 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
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Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-5-10.0**  
**T180352-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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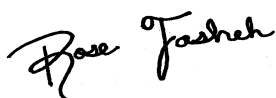
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**Semivolatile Organic Compounds by EPA Method 8270C**

Anthracene	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
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Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-5-10.0**  
**T180352-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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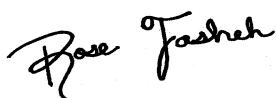
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**Semivolatile Organic Compounds by EPA Method 8270C**

Hexachlorobenzene	ND	1500	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		50.3 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		59.1 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		68.4 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		70.3 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		96.9 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		89.1 %	29.1-130		"	"	"	"	

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Laguna Hills CA, 92653

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-5-20.0**  
**T180352-06 (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	360	ug/kg	1	8020130	02/01/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		69.7 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	ND	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		90.6 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>35</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>16</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>7.2</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>7.2</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>12</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>25</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>22</b>	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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**Reported:**  
02/08/18 18:10

**B-5-20.0**  
**T180352-06 (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	8020238	02/02/18	02/05/18	EPA 7471A Soil	
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**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
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

69.0 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

59.9 % 35-140

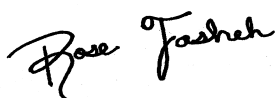
" " " "

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.8	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.6	"	"	"	"	"	"	

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Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-5-20.0**  
**T180352-06 (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**

1,2-Dibromoethane (EDB)	ND	1.8	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-5-20.0**  
**T180352-06 (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**

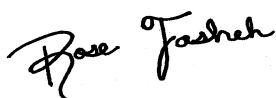
Trichloroethene	ND	1.8	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	ND	3.6	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.9 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.1 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Project Manager: Derrick Willis

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02/08/18 18:10

**B-5-20.0**  
**T180352-06 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Anthracene	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

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02/08/18 18:10

**B-5-20.0**  
**T180352-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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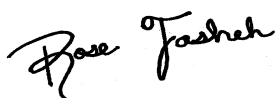
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**Semivolatile Organic Compounds by EPA Method 8270C**

Hexachlorobenzene	ND	1500	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		59.3 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		67.7 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		77.0 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		75.7 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		98.5 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		100 %	29.1-130		"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

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02/08/18 18:10

**B-14-1.0**  
**T180352-09 (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	340	ug/kg	1	8020130	02/01/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		68.7 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	ND	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	49	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		72.8 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	78	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	28	2.0	"	"	"	"	"	"	
Cobalt	15	2.0	"	"	"	"	"	"	
Copper	6.1	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	18	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	50	5.0	"	"	"	"	"	"	
Zinc	41	1.0	"	"	"	"	"	"	

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**B-14-1.0**  
**T180352-09 (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	8020238	02/02/18	02/05/18	EPA 7471A Soil	
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**Organochlorine Pesticides by EPA Method 8081A**

alpha-BHC	ND	50	ug/kg	10	8020134	02/01/18	02/05/18	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	100	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	2000	"	"	"	"	"	"	R-07

Surrogate: Tetrachloro-meta-xylene

92.7 % 35-140

" " " "

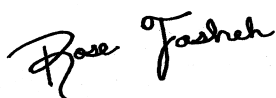
Surrogate: Decachlorobiphenyl

107 % 35-140

" " " "

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 18:10

**B-14-1.0**  
**T180352-09 (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**

PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		74.7 %	35-140		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		58.4 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.6	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	1.6	"	"	"	"	"	"	
Bromodichloromethane	ND	1.6	"	"	"	"	"	"	
Bromoform	ND	1.6	"	"	"	"	"	"	
Bromomethane	ND	1.6	"	"	"	"	"	"	
n-Butylbenzene	ND	1.6	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.6	"	"	"	"	"	"	
Chlorobenzene	ND	1.6	"	"	"	"	"	"	
Chloroethane	ND	1.6	"	"	"	"	"	"	
Chloroform	ND	1.6	"	"	"	"	"	"	
Chloromethane	ND	1.6	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.6	"	"	"	"	"	"	
Dibromochloromethane	ND	1.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.3	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.6	"	"	"	"	"	"	
Dibromomethane	ND	1.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	

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Rose Fasheh, Project Manager





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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-14-1.0**  
**T180352-09 (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**

1,4-Dichlorobenzene	ND	1.6	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.6	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.6	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.6	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.6	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.6	"	"	"	"	"	"	
Isopropylbenzene	ND	1.6	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.6	"	"	"	"	"	"	
Methylene chloride	ND	1.6	"	"	"	"	"	"	
Naphthalene	ND	1.6	"	"	"	"	"	"	
n-Propylbenzene	ND	1.6	"	"	"	"	"	"	
Styrene	ND	1.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.6	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.6	"	"	"	"	"	"	
Tetrachloroethene	ND	1.6	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.6	"	"	"	"	"	"	
Trichloroethene	ND	1.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.6	"	"	"	"	"	"	

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**B-14-1.0**  
**T180352-09 (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**

1,2,4-Trimethylbenzene	ND	1.6	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Vinyl chloride	ND	1.6	"	"	"	"	"	"	
Benzene	ND	1.6	"	"	"	"	"	"	
Toluene	ND	1.6	"	"	"	"	"	"	
Ethylbenzene	ND	1.6	"	"	"	"	"	"	
m,p-Xylene	ND	3.3	"	"	"	"	"	"	
o-Xylene	ND	1.6	"	"	"	"	"	"	
Surrogate: Toluene-d8		88.5 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.9 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		114 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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**B-14-1.0**  
**T180352-09 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Project Number: 2047.15  
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02/08/18 18:10

**B-14-1.0**  
**T180352-09 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		63.6 %		15-121	"	"	"	"	
Surrogate: Phenol-d6		73.5 %		24-113	"	"	"	"	
Surrogate: Nitrobenzene-d5		75.5 %		21.3-119	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		76.3 %		32.4-102	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		101 %		18.1-105	"	"	"	"	
Surrogate: Terphenyl-d14		98.4 %		29.1-130	"	"	"	"	

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Reported:  
02/08/18 18:10

**B-14-10.0**  
**T180352-11 (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	500	ug/kg	1	8020130	02/01/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		70.2 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	24	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	110	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		89.4 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>39</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>19</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>8.3</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>7.3</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>18</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>20</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>19</b>	1.0	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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02/08/18 18:10

**B-14-10.0**  
**T180352-11 (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	8020238	02/02/18	02/05/18	EPA 7471A Soil	
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**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
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

63.0 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

60.2 % 35-140

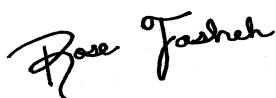
" " " "

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	2.1	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	2.1	"	"	"	"	"	"	
Bromodichloromethane	ND	2.1	"	"	"	"	"	"	
Bromoform	ND	2.1	"	"	"	"	"	"	
Bromomethane	ND	2.1	"	"	"	"	"	"	
n-Butylbenzene	ND	2.1	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.1	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.1	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.1	"	"	"	"	"	"	
Chlorobenzene	ND	2.1	"	"	"	"	"	"	
Chloroethane	ND	2.1	"	"	"	"	"	"	
Chloroform	ND	2.1	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.1	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.1	"	"	"	"	"	"	
Dibromochloromethane	ND	2.1	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.3	"	"	"	"	"	"	

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-14-10.0**  
**T180352-11 (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**

1,2-Dibromoethane (EDB)	ND	2.1	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dibromomethane	ND	2.1	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.1	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.1	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.1	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.1	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.1	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.1	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.1	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.1	"	"	"	"	"	"	
Isopropylbenzene	ND	2.1	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.1	"	"	"	"	"	"	
Methylene chloride	ND	2.1	"	"	"	"	"	"	
Naphthalene	ND	2.1	"	"	"	"	"	"	
n-Propylbenzene	ND	2.1	"	"	"	"	"	"	
Styrene	ND	2.1	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.1	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.1	"	"	"	"	"	"	
Tetrachloroethene	ND	2.1	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.1	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

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02/08/18 18:10

**B-14-10.0**  
**T180352-11 (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**

Trichloroethene	ND	2.1	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	2.1	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.1	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.1	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.1	"	"	"	"	"	"	
Benzene	ND	2.1	"	"	"	"	"	"	
Toluene	ND	2.1	"	"	"	"	"	"	
Ethylbenzene	ND	2.1	"	"	"	"	"	"	
m,p-Xylene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	2.1	"	"	"	"	"	"	
Surrogate: Toluene-d8		94.1 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.0 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		114 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
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Project Manager: Derrick Willis

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02/08/18 18:10

**B-14-10.0**  
**T180352-11 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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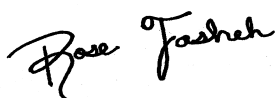
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**Semivolatile Organic Compounds by EPA Method 8270C**

Anthracene	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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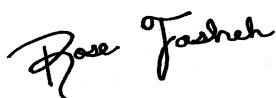
**SunStar Laboratories, Inc.**

**Semivolatile Organic Compounds by EPA Method 8270C**

Hexachlorobenzene	ND	1500	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		60.0 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		65.4 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		75.8 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		75.2 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		96.7 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		92.9 %	29.1-130		"	"	"	"	

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Rose Fasheh, Project Manager



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Laguna Hills CA, 92653

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

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02/08/18 18:10

**B-14-20.0**  
**T180352-13 (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	640	ug/kg	1	8020130	02/01/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		65.3 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	ND	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		79.2 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>33</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>14</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>7.2</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>5.6</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>12</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>20</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>16</b>	1.0	"	"	"	"	"	"	

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**B-14-20.0**  
**T180352-13 (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	8020238	02/02/18	02/05/18	EPA 7471A Soil	
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**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
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

66.1 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

62.1 % 35-140

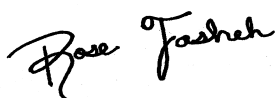
" " " "

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	2.0	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Chloroform	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	

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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dibromoethane (EDB)	ND	2.0	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
Methylene chloride	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	
Styrene	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	

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**Volatile Organic Compounds by EPA Method 8260B**

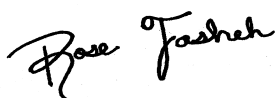
Trichloroethene	ND	2.0	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Vinyl chloride	ND	2.0	"	"	"	"	"	"	
Benzene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	4.0	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		90.0 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.9 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		113 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-14-20.0**  
**T180352-13 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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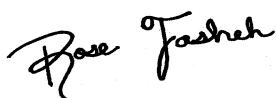
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**Semivolatile Organic Compounds by EPA Method 8270C**

Anthracene	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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Project Manager: Derrick Willis

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**B-14-20.0**  
**T180352-13 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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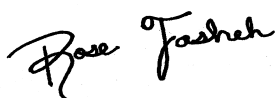
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**Semivolatile Organic Compounds by EPA Method 8270C**

Hexachlorobenzene	ND	1500	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		53.8 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		59.7 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		70.9 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		72.1 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		91.8 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		90.6 %	29.1-130		"	"	"	"	

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Rose Fasheh, Project Manager



Northgate Environmental Management -- Laguna Hills  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 18:10

**B-14**

**T180352-16 (Water)**

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	50	ug/l	1	8020142	02/01/18	02/03/18	EPA 8015B	
Surrogate: 4-Bromofluorobenzene		75.7 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

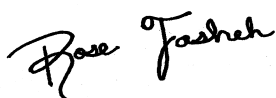
C13-C28 (DRO)	0.71	0.50	mg/l	1	8020233	02/02/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl		69.2 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	8020127	02/01/18	02/01/18	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	5.0	"	"	"	"	"	"	
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	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-14**

**T180352-16 (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**

1,2-Dichloroethane	ND	0.50	ug/l	1	8020127	02/01/18	02/01/18	EPA 8260B
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	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
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	"	"	"	"	"	"

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-14**

**T180352-16 (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**

Ethylbenzene	ND	0.50	ug/l	1	8020127	02/01/18	02/01/18	EPA 8260B
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		104 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		109 %	81-136		"	"	"	"
Surrogate: Toluene-d8		111 %	88.8-117		"	"	"	"

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02/08/18 18:10

**B-3-1.0**  
**T180352-17 (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	350	ug/kg	1	8020130	02/01/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		60.8 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	33	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	180	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		89.6 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>79</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>15</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>9.6</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>8.5</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>9.3</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>31</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>27</b>	1.0	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
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Reported:  
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**B-3-1.0**  
**T180352-17 (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	8020238	02/02/18	02/05/18	EPA 7471A Soil	
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**Organochlorine Pesticides by EPA Method 8081A**

alpha-BHC	ND	50	ug/kg	10	8020134	02/01/18	02/05/18	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	100	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	2000	"	"	"	"	"	"	R-07

Surrogate: Tetrachloro-meta-xylene

84.3 % 35-140

" " " "

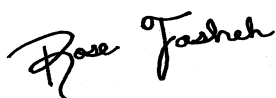
Surrogate: Decachlorobiphenyl

107 % 35-140

" " " "

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Project Manager: Derrick Willis

**Reported:**  
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**B-3-1.0**  
**T180352-17 (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**

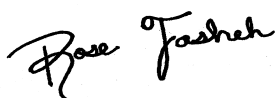
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		70.1 %	35-140		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		53.9 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	

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Laguna Hills CA, 92653

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-3-1.0**  
**T180352-17 (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**

1,4-Dichlorobenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	
Trichloroethene	ND	1.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	

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**B-3-1.0**  
**T180352-17 (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**

1,2,4-Trimethylbenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Benzene	ND	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.5	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		90.4 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.5 %	81.2-123		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		110 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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02/08/18 18:10

**B-3-1.0**  
**T180352-17 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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**B-3-1.0**  
**T180352-17 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	57.5 %	15-121			"	"	"	"
Surrogate: Phenol-d6	67.7 %	24-113			"	"	"	"
Surrogate: Nitrobenzene-d5	72.2 %	21.3-119			"	"	"	"
Surrogate: 2-Fluorobiphenyl	74.9 %	32.4-102			"	"	"	"
Surrogate: 2,4,6-Tribromophenol	98.1 %	18.1-105			"	"	"	"
Surrogate: Terphenyl-d14	90.3 %	29.1-130			"	"	"	"

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Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-3-10.0**  
**T180352-19 (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	350	ug/kg	1	8020130	02/01/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		65.3 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	18	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		90.4 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>60</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>22</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>11</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>8.0</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>21</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>27</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>34</b>	1.0	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
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Project Manager: Derrick Willis

**Reported:**  
02/08/18 18:10

**B-3-10.0**  
**T180352-19 (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	8020238	02/02/18	02/05/18	EPA 7471A Soil	
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**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
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

64.8 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

64.2 % 35-140

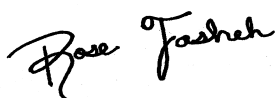
" " " "

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.5	"	"	"	"	"	"	

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02/08/18 18:10

**B-3-10.0**  
**T180352-19 (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**

1,2-Dibromoethane (EDB)	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 18:10

**B-3-10.0**  
**T180352-19 (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**

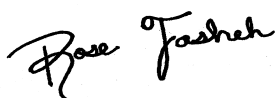
Trichloroethene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
<b>Benzene</b>	<b>2.2</b>	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.5	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		89.1 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.2 %	81.2-123		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		114 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-3-10.0**  
**T180352-19 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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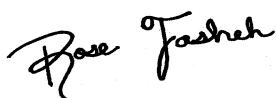
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**Semivolatile Organic Compounds by EPA Method 8270C**

Anthracene	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-3-10.0**  
**T180352-19 (Soil)**

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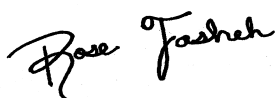
**SunStar Laboratories, Inc.**

**Semivolatile Organic Compounds by EPA Method 8270C**

Hexachlorobenzene	ND	1500	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		60.7 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		67.0 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		76.6 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		77.7 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		97.7 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		97.1 %	29.1-130		"	"	"	"	

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Rose Fasheh, Project Manager





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Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

### B-3-20.0

### T180352-21 (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	390	ug/kg	1	8020130	02/01/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		62.8 %	65-135		"	"	"	"	S-03

#### Extractable Petroleum Hydrocarbons by 8015B

C13-C28 (DRO)	14	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		86.9 %	65-135		"	"	"	"	

#### Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>39</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>18</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>8.9</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>8.1</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>16</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>27</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>30</b>	1.0	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-3-20.0**  
**T180352-21 (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	8020238	02/02/18	02/05/18	EPA 7471A Soil	
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**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
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

76.9 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

68.8 % 35-140

" " " "

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.9	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	
Chloromethane	ND	1.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.8	"	"	"	"	"	"	

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*Rose Fasheh*

Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-3-20.0**  
**T180352-21 (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**

1,2-Dibromoethane (EDB)	ND	1.9	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
Methylene chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 18:10

**B-3-20.0**  
**T180352-21 (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**

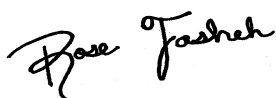
Trichloroethene	ND	1.9	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
Vinyl chloride	ND	1.9	"	"	"	"	"	"	
<b>Benzene</b>	<b>7.6</b>	1.9	"	"	"	"	"	"	
<b>Toluene</b>	<b>2.3</b>	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.8	"	"	"	"	"	"	
o-Xylene	ND	1.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		90.7 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.8 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		121 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-3-20.0**  
**T180352-21 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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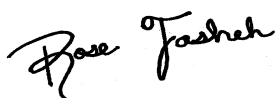
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**Semivolatile Organic Compounds by EPA Method 8270C**

Anthracene	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-3-20.0**  
**T180352-21 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Hexachlorobenzene	ND	1500	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol	58.1 %	15-121			"	"	"	"	
Surrogate: Phenol-d6	65.1 %	24-113			"	"	"	"	
Surrogate: Nitrobenzene-d5	75.6 %	21.3-119			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	76.6 %	32.4-102			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	104 %	18.1-105			"	"	"	"	
Surrogate: Terphenyl-d14	96.6 %	29.1-130			"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 18:10

**B-3**  
**T180352-24 (Water)**

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	50	ug/l	1	8020142	02/01/18	02/03/18	EPA 8015B	
Surrogate: 4-Bromofluorobenzene		91.4 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

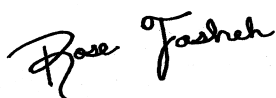
C13-C28 (DRO)	2.0	0.50	mg/l	1	8020233	02/02/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl		75.7 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	50	ug/l	1	8020242	02/02/18	02/06/18	EPA 6010b	
Silver	ND	50	"	"	"	"	"	"	
Arsenic	ND	50	"	"	"	"	"	"	
<b>Barium</b>	<b>110</b>	50	"	"	"	"	"	"	
Beryllium	ND	50	"	"	"	"	"	"	
Cadmium	ND	50	"	"	"	"	"	"	
Chromium	ND	50	"	"	"	"	"	"	
Cobalt	ND	50	"	"	"	"	"	"	
Copper	ND	50	"	"	"	"	"	"	
Lead	ND	50	"	"	"	"	"	"	
<b>Molybdenum</b>	<b>62</b>	50	"	"	"	"	"	"	
Nickel	ND	50	"	"	"	"	"	"	
Selenium	ND	50	"	"	"	"	"	"	
Thallium	ND	50	"	"	"	"	"	"	
Vanadium	ND	50	"	"	"	"	"	"	
Zinc	ND	50	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-3**  
**T180352-24 (Water)**

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	0.50	ug/l	1	8020243	02/02/18	02/06/18	EPA 7470A Water	
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**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	8020127	02/01/18	02/01/18	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	5.0	"	"	"	"	"	"	
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	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-3**  
**T180352-24 (Water)**

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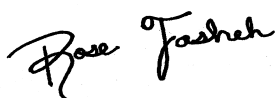
**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,3-Dichloropropane	ND	1.0	ug/l	1	8020127	02/01/18	02/01/18	EPA 8260B	
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	1.0	"	"	"	"	"	"	
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	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		83.5-119	"	"	"	"	
Surrogate: Dibromofluoromethane		110 %		81-136	"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-3**  
**T180352-24 (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: Toluene-d8	110 %	88.8-117	8020127	02/01/18	02/01/18	EPA 8260B
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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-13-1.0**  
**T180352-25 (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	320	ug/kg	1	8020130	02/01/18	02/02/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		49.7 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	250	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	890	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		87.0 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>64</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>20</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>12</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>6.6</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>13</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>40</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>32</b>	1.0	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 18:10

**B-13-1.0**  
**T180352-25 (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**

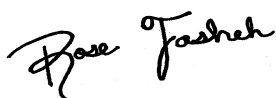
Mercury	ND	0.10	mg/kg	1	8020238	02/02/18	02/05/18	EPA 7471A Soil	
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**Organochlorine Pesticides by EPA Method 8081A**

alpha-BHC	ND	500	ug/kg	100	8020134	02/01/18	02/05/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	500	"	"	"	"	"	"	R-07
beta-BHC	ND	500	"	"	"	"	"	"	R-07
delta-BHC	ND	500	"	"	"	"	"	"	R-07
Heptachlor	ND	500	"	"	"	"	"	"	R-07
Aldrin	ND	500	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	500	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	500	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	500	"	"	"	"	"	"	R-07
Endosulfan I	ND	500	"	"	"	"	"	"	R-07
4,4'-DDE	ND	500	"	"	"	"	"	"	R-07
Dieldrin	ND	500	"	"	"	"	"	"	R-07
Endrin	ND	500	"	"	"	"	"	"	R-07
4,4'-DDD	ND	500	"	"	"	"	"	"	R-07
Endosulfan II	ND	500	"	"	"	"	"	"	R-07
4,4'-DDT	ND	500	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	500	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	500	"	"	"	"	"	"	R-07
Methoxychlor	ND	1000	"	"	"	"	"	"	R-07
Endrin ketone	ND	500	"	"	"	"	"	"	R-07
Toxaphene	ND	20000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		%	35-140		"	"	"	"	S-01
Surrogate: Decachlorobiphenyl		%	35-140		"	"	"	"	S-01

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 18:10

**B-13-1.0**  
**T180352-25 (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**

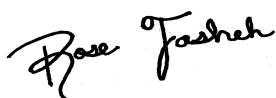
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		63.5 %	35-140		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		53.1 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.4	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

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02/08/18 18:10

**B-13-1.0**  
**T180352-25 (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**

1,4-Dichlorobenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	
Trichloroethene	ND	1.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	

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Laguna Hills CA, 92653

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
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**B-13-1.0**  
**T180352-25 (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**

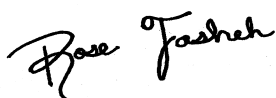
1,2,4-Trimethylbenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Benzene	ND	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.4	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		85.7 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		75.6 %	81.2-123		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		119 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	1500	ug/kg	5	8020521	02/05/18	02/07/18	EPA 8270C	R-07
Aniline	ND	1500	"	"	"	"	"	"	R-07
Phenol	ND	5000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	5000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	1500	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	5000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	1500	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	1500	"	"	"	"	"	"	R-07
Acenaphthene	ND	1500	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	5000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	1500	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	5000	"	"	"	"	"	"	R-07
Pyrene	ND	1500	"	"	"	"	"	"	
Acenaphthylene	ND	1500	"	"	"	"	"	"	R-07
Anthracene	ND	1500	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	1500	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	1500	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	1500	"	"	"	"	"	"	R-07

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**B-13-1.0**  
**T180352-25 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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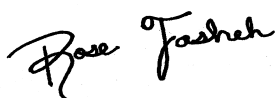
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**Semivolatile Organic Compounds by EPA Method 8270C**

Benzo (g,h,i) perylene	ND	5000	ug/kg	5	8020521	02/05/18	02/07/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	1500	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	1500	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	1500	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	1500	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	1500	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	1500	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	1500	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	1500	"	"	"	"	"	"	R-07
Chrysene	ND	1500	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	1500	"	"	"	"	"	"	R-07
Dibenzofuran	ND	1500	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	1500	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	1500	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	5000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	1500	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	5000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	5000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	5000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	1500	"	"	"	"	"	"	R-07
Fluoranthene	ND	1500	"	"	"	"	"	"	R-07
Fluorene	ND	1500	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	7500	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	1500	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	5000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	1500	"	"	"	"	"	"	R-07

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**B-13-1.0**  
**T180352-25 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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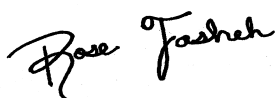
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**Semivolatile Organic Compounds by EPA Method 8270C**

Indeno (1,2,3-cd) pyrene	ND	1500	ug/kg	5	8020521	02/05/18	02/07/18	EPA 8270C	R-07
Isophorone	ND	1500	"	"	"	"	"	"	R-07
2-Methylphenol	ND	5000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	5000	"	"	"	"	"	"	R-07
Naphthalene	ND	1500	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
Nitrobenzene	ND	5000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	5000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	1500	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	1500	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	1500	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	1500	"	"	"	"	"	"	R-07
Phenanthrene	ND	1500	"	"	"	"	"	"	R-07
Azobenzene	ND	1500	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Pyridine	ND	1500	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol		67.3 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		77.2 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		82.2 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		91.1 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		99.8 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		99.4 %	29.1-130		"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

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**B-13-10.0**  
**T180352-27 (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	390	ug/kg	1	8020130	02/01/18	02/02/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		58.7 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	22	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		78.5 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>58</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>19</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>11</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>10</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>20</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>30</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>32</b>	1.0	"	"	"	"	"	"	

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**T180352-27 (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	8020238	02/02/18	02/05/18	EPA 7471A Soil	
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**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
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

55.7 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

56.9 % 35-140

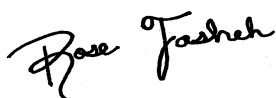
" " " "

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	2.1	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	2.1	"	"	"	"	"	"	
Bromodichloromethane	ND	2.1	"	"	"	"	"	"	
Bromoform	ND	2.1	"	"	"	"	"	"	
Bromomethane	ND	2.1	"	"	"	"	"	"	
n-Butylbenzene	ND	2.1	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.1	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.1	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.1	"	"	"	"	"	"	
Chlorobenzene	ND	2.1	"	"	"	"	"	"	
Chloroethane	ND	2.1	"	"	"	"	"	"	
Chloroform	ND	2.1	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.1	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.1	"	"	"	"	"	"	
Dibromochloromethane	ND	2.1	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.2	"	"	"	"	"	"	

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02/08/18 18:10

**B-13-10.0**  
**T180352-27 (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**

1,2-Dibromoethane (EDB)	ND	2.1	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dibromomethane	ND	2.1	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.1	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.1	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.1	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.1	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.1	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.1	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.1	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.1	"	"	"	"	"	"	
Isopropylbenzene	ND	2.1	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.1	"	"	"	"	"	"	
Methylene chloride	ND	2.1	"	"	"	"	"	"	
Naphthalene	ND	2.1	"	"	"	"	"	"	
n-Propylbenzene	ND	2.1	"	"	"	"	"	"	
Styrene	ND	2.1	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.1	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.1	"	"	"	"	"	"	
Tetrachloroethene	ND	2.1	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.1	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 18:10

**B-13-10.0**  
**T180352-27 (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**

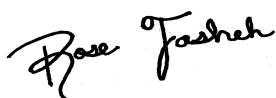
Trichloroethene	ND	2.1	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	2.1	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.1	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.1	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.1	"	"	"	"	"	"	
<b>Benzene</b>	<b>2.4</b>	2.1	"	"	"	"	"	"	
Toluene	ND	2.1	"	"	"	"	"	"	
Ethylbenzene	ND	2.1	"	"	"	"	"	"	
m,p-Xylene	ND	4.2	"	"	"	"	"	"	
o-Xylene	ND	2.1	"	"	"	"	"	"	
Surrogate: Toluene-d8		91.4 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.0 %	81.2-123		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		121 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/07/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-13-10.0**  
**T180352-27 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Anthracene	ND	300	ug/kg	1	8020521	02/05/18	02/07/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-13-10.0**  
**T180352-27 (Soil)**

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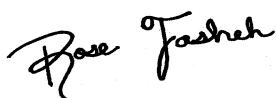
**SunStar Laboratories, Inc.**

**Semivolatile Organic Compounds by EPA Method 8270C**

Hexachlorobenzene	ND	1500	ug/kg	1	8020521	02/05/18	02/07/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol	68.8 %	15-121	"	"	"	"	"	"	
Surrogate: Phenol-d6	73.8 %	24-113	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5	84.1 %	21.3-119	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	84.3 %	32.4-102	"	"	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	107 %	18.1-105	"	"	"	"	"	"	S-GC
Surrogate: Terphenyl-d14	105 %	29.1-130	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-13-15.0**  
**T180352-28 (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	350	ug/kg	1	8020130	02/01/18	02/02/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		52.9 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	15	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		87.1 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>370</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>18</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>19</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>11</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>28</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>46</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>34</b>	1.0	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 18:10

**B-13-15.0**  
**T180352-28 (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	8020238	02/02/18	02/05/18	EPA 7471A Soil	
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**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
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

66.9 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

60.8 % 35-140

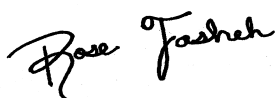
" " " "

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.4	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
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**B-13-15.0**  
**T180352-28 (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**

1,2-Dibromoethane (EDB)	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 18:10

**B-13-15.0**  
**T180352-28 (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**

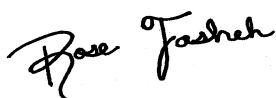
Trichloroethene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
<b>Benzene</b>	<b>4.4</b>	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.4	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>91.2 %</i>	<i>85.5-116</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>81.6 %</i>	<i>81.2-123</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>113 %</i>	<i>95.7-135</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/07/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-13-15.0**  
**T180352-28 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Anthracene	ND	300	ug/kg	1	8020521	02/05/18	02/07/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-13-15.0**  
**T180352-28 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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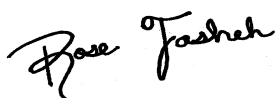
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**Semivolatile Organic Compounds by EPA Method 8270C**

Hexachlorobenzene	ND	1500	ug/kg	1	8020521	02/05/18	02/07/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		70.2 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		73.4 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		87.8 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		84.3 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		104 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		99.3 %	29.1-130		"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

### B-13

#### T180352-32 (Water)

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	50	ug/l	1	8020142	02/01/18	02/03/18	EPA 8015B	
Surrogate: 4-Bromofluorobenzene		86.6 %	65-135		"	"	"	"	

#### Extractable Petroleum Hydrocarbons by 8015B

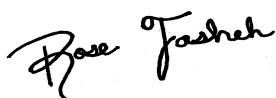
C13-C28 (DRO)	1.2	0.50	mg/l	1	8020233	02/02/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl		76.0 %	65-135		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	8020127	02/01/18	02/01/18	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	5.0	"	"	"	"	"	"	
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	"	"	"	"	"	"	

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Reported:  
02/08/18 18:10

**B-13**

**T180352-32 (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**

1,2-Dichloroethane	ND	0.50	ug/l	1	8020127	02/01/18	02/01/18	EPA 8260B
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	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
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	"	"	"	"	"	"

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Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**B-13**

**T180352-32 (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**

Ethylbenzene	ND	0.50	ug/l	1	8020127	02/01/18	02/01/18	EPA 8260B
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		103 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		110 %	81-136		"	"	"	"
Surrogate: Toluene-d8		108 %	88.8-117		"	"	"	"

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Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

## 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 8020130 - EPA 5035 GC

##### Blank (8020130-BLK1)

Prepared & Analyzed: 02/01/18

C6-C12 (GRO)	ND	400	ug/kg							
Surrogate: 4-Bromofluorobenzene	126		"	100		126	65-135			

##### LCS (8020130-BS1)

Prepared & Analyzed: 02/01/18

C6-C12 (GRO)	1910	400	ug/kg	1980		96.5	75-125			
Surrogate: 4-Bromofluorobenzene	115		"	100		115	65-135			

##### LCS Dup (8020130-BSD1)

Prepared & Analyzed: 02/01/18

C6-C12 (GRO)	1750	400	ug/kg	1980		88.1	75-125	8.89	20	
Surrogate: 4-Bromofluorobenzene	106		"	100		106	65-135			

#### Batch 8020142 - EPA 5030 GC

##### Blank (8020142-BLK1)

Prepared: 02/01/18 Analyzed: 02/03/18

C6-C12 (GRO)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	76.8		"	100		76.8	65-135			

##### LCS (8020142-BS1)

Prepared: 02/01/18 Analyzed: 02/05/18

C6-C12 (GRO)	1090	50	ug/l	1000		109	75-125			
Surrogate: 4-Bromofluorobenzene	115		"	100		115	65-135			

##### LCS Dup (8020142-BSD1)

Prepared: 02/01/18 Analyzed: 02/05/18

C6-C12 (GRO)	1020	50	ug/l	1000		102	75-125	7.35	20	
Surrogate: 4-Bromofluorobenzene	116		"	100		116	65-135			

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 18:10

### 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 8020233 - EPA 3510C GC

##### Blank (8020233-BLK1)

Prepared: 02/02/18 Analyzed: 02/07/18

C13-C28 (DRO)	ND	0.50	mg/l							
C29-C40 (MORO)	ND	0.50	"							
Surrogate: <i>p</i> -Terphenyl	3.02		"	4.00		75.6	65-135			

##### LCS (8020233-BS1)

Prepared: 02/02/18 Analyzed: 02/07/18

C13-C28 (DRO)	16.0	0.50	mg/l	20.0		80.2	75-125			
Surrogate: <i>p</i> -Terphenyl	2.69		"	4.00		67.3	65-135			

##### LCS Dup (8020233-BSD1)

Prepared: 02/02/18 Analyzed: 02/07/18

C13-C28 (DRO)	16.8	0.50	mg/l	20.0		84.2	75-125	4.92	20	
Surrogate: <i>p</i> -Terphenyl	2.62		"	4.00		65.6	65-135			

#### Batch 8020522 - EPA 3550B GC

##### Blank (8020522-BLK1)

Prepared: 02/05/18 Analyzed: 02/06/18

C13-C28 (DRO)	ND	10	mg/kg							
C29-C40 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	68.7		"	100		68.7	65-135			

##### LCS (8020522-BS1)

Prepared: 02/05/18 Analyzed: 02/06/18

C13-C28 (DRO)	460	10	mg/kg	500		92.1	75-125			
Surrogate: <i>p</i> -Terphenyl	76.9		"	100		76.9	65-135			

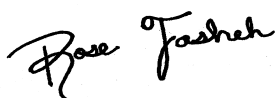
##### LCS Dup (8020522-BSD1)

Prepared: 02/05/18 Analyzed: 02/06/18

C13-C28 (DRO)	500	10	mg/kg	500		101	75-125	9.03	20	
Surrogate: <i>p</i> -Terphenyl	87.3		"	100		87.3	65-135			

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Reported:  
02/08/18 18:10

### 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 8020239 - EPA 3050B

##### Blank (8020239-BLK1)

Prepared: 02/02/18 Analyzed: 02/05/18

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	2.0	"
Vanadium	ND	5.0	"
Zinc	ND	1.0	"

##### LCS (8020239-BS1)

Prepared: 02/02/18 Analyzed: 02/05/18

Arsenic	103	5.0	mg/kg	100	103	75-125
Barium	106	1.0	"	100	106	75-125
Cadmium	105	2.0	"	100	105	75-125
Chromium	105	2.0	"	100	105	75-125
Lead	112	3.0	"	100	112	75-125

##### Matrix Spike (8020239-MS1)

Source: T180352-02

Prepared: 02/02/18 Analyzed: 02/05/18

Arsenic	87.1	5.0	mg/kg	97.1	ND	89.7	75-125
Barium	221	1.0	"	97.1	107	117	75-125
Cadmium	94.4	2.0	"	97.1	0.889	96.3	75-125
Chromium	116	2.0	"	97.1	19.3	99.9	75-125
Lead	110	3.0	"	97.1	ND	114	75-125

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

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02/08/18 18:10

### 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 8020239 - EPA 3050B

##### Matrix Spike Dup (8020239-MSD1)

Source: T180352-02

Prepared: 02/02/18 Analyzed: 02/05/18

Arsenic	84.3	5.0	mg/kg	96.2	ND	87.7	75-125	3.30	20	
Barium	159	1.0	"	96.2	107	54.0	75-125	32.7	20	QR-04
Cadmium	86.5	2.0	"	96.2	0.889	89.0	75-125	8.80	20	
Chromium	99.2	2.0	"	96.2	19.3	83.0	75-125	15.9	20	
Lead	102	3.0	"	96.2	ND	106	75-125	8.15	20	

#### Batch 8020242 - EPA 3010A

##### Blank (8020242-BLK1)

Prepared: 02/02/18 Analyzed: 02/06/18

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 (8020242-BS1)

Prepared: 02/02/18 Analyzed: 02/06/18

Arsenic	475	50	ug/l	500	95.0	75-125
Barium	485	50	"	500	97.1	75-125
Cadmium	481	50	"	500	96.2	75-125
Chromium	485	50	"	500	97.1	75-125
Lead	509	50	"	500	102	75-125

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### 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 8020242 - EPA 3010A

##### Matrix Spike (8020242-MS1)

Source: T180352-24

Prepared: 02/02/18 Analyzed: 02/06/18

Arsenic	493	50	ug/l	500	ND	98.5	75-125
Barium	578	50	"	500	114	92.8	75-125
Cadmium	462	50	"	500	ND	92.4	75-125
Chromium	470	50	"	500	ND	94.0	75-125
Lead	491	50	"	500	ND	98.3	75-125

##### Matrix Spike Dup (8020242-MSD1)

Source: T180352-24

Prepared: 02/02/18 Analyzed: 02/06/18

Arsenic	487	50	ug/l	500	ND	97.4	75-125	1.19	20
Barium	572	50	"	500	114	91.7	75-125	0.975	20
Cadmium	454	50	"	500	ND	90.8	75-125	1.69	20
Chromium	467	50	"	500	ND	93.4	75-125	0.641	20
Lead	484	50	"	500	ND	96.7	75-125	1.57	20

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### 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 8020238 - EPA 7471A Soil

<b>Blank (8020238-BLK1)</b>				Prepared: 02/02/18 Analyzed: 02/05/18						
Mercury	ND	0.10	mg/kg							
<b>LCS (8020238-BS1)</b>				Prepared: 02/02/18 Analyzed: 02/05/18						
Mercury	0.341	0.10	mg/kg	0.397		86.0	80-120			
<b>Matrix Spike (8020238-MS1)</b>				Source: T180352-02 Prepared: 02/02/18 Analyzed: 02/05/18						
Mercury	0.382	0.10	mg/kg	0.403	0.0292	87.4	75-125			
<b>Matrix Spike Dup (8020238-MSD1)</b>				Source: T180352-02 Prepared: 02/02/18 Analyzed: 02/05/18						
Mercury	0.371	0.10	mg/kg	0.403	0.0292	84.7	75-125	2.88	20	

#### Batch 8020243 - EPA 7470A Water

<b>Blank (8020243-BLK1)</b>				Prepared: 02/02/18 Analyzed: 02/06/18						
Mercury	ND	0.50	ug/l							
<b>LCS (8020243-BS1)</b>				Prepared: 02/02/18 Analyzed: 02/06/18						
Mercury	4.59	0.50	ug/l	5.00		91.8	80-120			
<b>Matrix Spike (8020243-MS1)</b>				Source: T180398-01 Prepared: 02/02/18 Analyzed: 02/06/18						
Mercury	4.37	0.50	ug/l	5.00	ND	87.3	75-125			
<b>Matrix Spike Dup (8020243-MSD1)</b>				Source: T180398-01 Prepared: 02/02/18 Analyzed: 02/06/18						
Mercury	4.36	0.50	ug/l	5.00	ND	87.3	75-125	0.0996	20	

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Project Manager: Derrick Willis

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### 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 8020134 - EPA 3550 ECD/GCMS

##### Blank (8020134-BLK1)

Prepared: 02/01/18 Analyzed: 02/05/18

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	10	"
Endrin ketone	ND	5.0	"
Toxaphene	ND	200	"

Surrogate: Tetrachloro-meta-xylene

8.92 " 10.0 89.2 35-140

Surrogate: Decachlorobiphenyl

8.62 " 10.0 86.2 35-140

##### LCS (8020134-BS1)

Prepared: 02/01/18 Analyzed: 02/05/18

gamma-BHC (Lindane)	34.2	5.0	ug/kg	40.0	85.5	40-120
Heptachlor	34.1	5.0	"	40.0	85.2	40-120
Aldrin	32.0	5.0	"	40.0	80.0	40-120
Dieldrin	32.6	5.0	"	40.0	81.5	40-120
Endrin	32.7	5.0	"	40.0	81.9	40-120
4,4'-DDT	30.7	5.0	"	40.0	76.8	33-147

Surrogate: Tetrachloro-meta-xylene

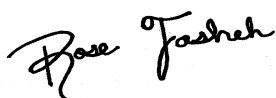
8.47 " 10.0 84.7 35-140

Surrogate: Decachlorobiphenyl

8.36 " 10.0 83.6 35-140

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### 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 8020134 - EPA 3550 ECD/GCMS

##### LCS Dup (8020134-BSD1)

Prepared: 02/01/18 Analyzed: 02/05/18

gamma-BHC (Lindane)	32.4	5.0	ug/kg	40.0		81.1	40-120	5.30	30	
Heptachlor	32.6	5.0	"	40.0		81.5	40-120	4.51	30	
Aldrin	30.6	5.0	"	40.0		76.4	40-120	4.58	30	
Dieldrin	31.1	5.0	"	40.0		77.7	40-120	4.85	30	
Endrin	31.1	5.0	"	40.0		77.8	40-120	5.11	30	
4,4'-DDT	28.6	5.0	"	40.0		71.5	33-147	7.13	30	
Surrogate: Tetrachloro-meta-xylene	8.06		"	10.0		80.6	35-140			
Surrogate: Decachlorobiphenyl	8.56		"	10.0		85.6	35-140			

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### Polychlorinated Biphenyls by EPA Method 8082 - 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 8020133 - EPA 3550 ECD/GCMS

##### Blank (8020133-BLK1)

Prepared: 02/01/18 Analyzed: 02/02/18

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	7.49		"	10.0		74.9	35-140			
Surrogate: Decachlorobiphenyl	7.46		"	10.0		74.6	35-140			

##### LCS (8020133-BS1)

Prepared: 02/01/18 Analyzed: 02/02/18

PCB-1016	63.7	10	ug/kg	100		63.7	40-130			
PCB-1260	65.7	10	"	100		65.7	40-130			
Surrogate: Tetrachloro-meta-xylene	7.72		"	10.0		77.2	35-140			
Surrogate: Decachlorobiphenyl	7.73		"	10.0		77.3	35-140			

##### LCS Dup (8020133-BSD1)

Prepared: 02/01/18 Analyzed: 02/02/18

PCB-1016	69.0	10	ug/kg	100		69.0	40-130	7.99	30	
PCB-1260	61.7	10	"	100		61.7	40-130	6.28	30	
Surrogate: Tetrachloro-meta-xylene	7.48		"	10.0		74.8	35-140			
Surrogate: Decachlorobiphenyl	7.15		"	10.0		71.5	35-140			

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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 8020127 - EPA 5030 GCMS

#### Blank (8020127-BLK1)

Prepared & Analyzed: 02/01/18

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	5.0	"
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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### 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 8020127 - EPA 5030 GCMS

##### Blank (8020127-BLK1)

Prepared & Analyzed: 02/01/18

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
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	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate: 4-Bromofluorobenzene	19.3		"	20.0		96.4	83.5-119			
Surrogate: Dibromofluoromethane	21.2		"	20.0		106	81-136			
Surrogate: Toluene-d8	21.8		"	20.0		109	88.8-117			

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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 8020127 - EPA 5030 GCMS

#### LCS (8020127-BS1)

Prepared & Analyzed: 02/01/18

Chlorobenzene	21.5	1.0	ug/l	20.0		108	75-125			
1,1-Dichloroethene	21.2	1.0	"	20.0		106	75-125			
Trichloroethene	20.0	1.0	"	20.0		100	75-125			
Benzene	21.8	0.50	"	20.0		109	75-125			
Toluene	21.8	0.50	"	20.0		109	75-125			
Surrogate: 4-Bromofluorobenzene	22.2		"	20.0		111	83.5-119			
Surrogate: Dibromofluoromethane	21.2		"	20.0		106	81-136			
Surrogate: Toluene-d8	21.6		"	20.0		108	88.8-117			

#### LCS Dup (8020127-BSD1)

Prepared & Analyzed: 02/01/18

Chlorobenzene	21.2	1.0	ug/l	20.0		106	75-125	1.83	20	
1,1-Dichloroethene	21.3	1.0	"	20.0		106	75-125	0.235	20	
Trichloroethene	20.2	1.0	"	20.0		101	75-125	1.24	20	
Benzene	22.3	0.50	"	20.0		111	75-125	2.13	20	
Toluene	21.8	0.50	"	20.0		109	75-125	0.0458	20	
Surrogate: 4-Bromofluorobenzene	21.8		"	20.0		109	83.5-119			
Surrogate: Dibromofluoromethane	20.9		"	20.0		105	81-136			
Surrogate: Toluene-d8	21.3		"	20.0		106	88.8-117			

### Batch 8020129 - EPA 5035 GCMS

#### Blank (8020129-BLK1)

Prepared: 02/01/18 Analyzed: 02/02/18

Bromobenzene	ND	2.0	ug/kg							
Bromochloromethane	ND	2.0	"							
Bromodichloromethane	ND	2.0	"							
Bromoform	ND	2.0	"							
Bromomethane	ND	2.0	"							
n-Butylbenzene	ND	2.0	"							
sec-Butylbenzene	ND	2.0	"							
tert-Butylbenzene	ND	2.0	"							
Carbon tetrachloride	ND	2.0	"							
Chlorobenzene	ND	2.0	"							
Chloroethane	ND	2.0	"							
Chloroform	ND	2.0	"							
Chloromethane	ND	2.0	"							
2-Chlorotoluene	ND	2.0	"							

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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 8020129 - EPA 5035 GCMS

##### Blank (8020129-BLK1)

Prepared: 02/01/18 Analyzed: 02/02/18

4-Chlorotoluene	ND	2.0	ug/kg
Dibromochloromethane	ND	2.0	"
1,2-Dibromo-3-chloropropane	ND	4.0	"
1,2-Dibromoethane (EDB)	ND	2.0	"
Dibromomethane	ND	2.0	"
1,2-Dichlorobenzene	ND	2.0	"
1,3-Dichlorobenzene	ND	2.0	"
1,4-Dichlorobenzene	ND	2.0	"
Dichlorodifluoromethane	ND	2.0	"
1,1-Dichloroethane	ND	2.0	"
1,2-Dichloroethane	ND	2.0	"
1,1-Dichloroethene	ND	2.0	"
cis-1,2-Dichloroethene	ND	2.0	"
trans-1,2-Dichloroethene	ND	2.0	"
1,2-Dichloropropane	ND	2.0	"
1,3-Dichloropropane	ND	2.0	"
2,2-Dichloropropane	ND	2.0	"
1,1-Dichloropropene	ND	2.0	"
cis-1,3-Dichloropropene	ND	2.0	"
trans-1,3-Dichloropropene	ND	2.0	"
Hexachlorobutadiene	ND	2.0	"
Isopropylbenzene	ND	2.0	"
p-Isopropyltoluene	ND	2.0	"
Methylene chloride	ND	2.0	"
Naphthalene	ND	2.0	"
n-Propylbenzene	ND	2.0	"
Styrene	ND	2.0	"
1,1,2,2-Tetrachloroethane	ND	2.0	"
1,1,1,2-Tetrachloroethane	ND	2.0	"
Tetrachloroethene	ND	2.0	"
1,2,3-Trichlorobenzene	ND	2.0	"
1,2,4-Trichlorobenzene	ND	2.0	"
1,1,2-Trichloroethane	ND	2.0	"
1,1,1-Trichloroethane	ND	2.0	"
Trichloroethene	ND	2.0	"
Trichlorofluoromethane	ND	2.0	"

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

### 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 8020129 - EPA 5035 GCMS

##### Blank (8020129-BLK1)

Prepared: 02/01/18 Analyzed: 02/02/18

1,2,3-Trichloropropane	ND	2.0	ug/kg							
1,3,5-Trimethylbenzene	ND	2.0	"							
1,2,4-Trimethylbenzene	ND	2.0	"							
Vinyl chloride	ND	2.0	"							
Benzene	ND	2.0	"							
Toluene	ND	2.0	"							
Ethylbenzene	ND	2.0	"							
m,p-Xylene	ND	4.0	"							
o-Xylene	ND	2.0	"							
Surrogate: Toluene-d8	40.3		"	39.6		102	85.5-116			
Surrogate: 4-Bromofluorobenzene	38.9		"	39.6		98.1	81.2-123			
Surrogate: Dibromofluoromethane	44.2		"	39.6		112	95.7-135			

##### LCS (8020129-BS1)

Prepared: 02/01/18 Analyzed: 02/03/18

Chlorobenzene	37.5	2.0	ug/kg	39.8		94.2	75-125			
1,1-Dichloroethene	48.2	2.0	"	39.8		121	75-125			
Trichloroethene	37.0	2.0	"	39.8		92.7	75-125			
Benzene	41.0	2.0	"	39.8		103	75-125			
Toluene	37.1	2.0	"	39.8		93.0	75-125			
Surrogate: Toluene-d8	37.8		"	39.8		94.9	85.5-116			
Surrogate: 4-Bromofluorobenzene	38.9		"	39.8		97.5	81.2-123			
Surrogate: Dibromofluoromethane	47.4		"	39.8		119	95.7-135			

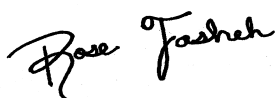
##### LCS Dup (8020129-BSD1)

Prepared: 02/01/18 Analyzed: 02/03/18

Chlorobenzene	39.7	2.0	ug/kg	39.4		101	75-125	5.63	20	
1,1-Dichloroethene	47.7	2.0	"	39.4		121	75-125	1.02	20	
Trichloroethene	37.7	2.0	"	39.4		95.8	75-125	2.05	20	
Benzene	42.3	2.0	"	39.4		107	75-125	3.14	20	
Toluene	38.1	2.0	"	39.4		96.7	75-125	2.71	20	
Surrogate: Toluene-d8	36.4		"	39.4		92.5	85.5-116			
Surrogate: 4-Bromofluorobenzene	39.8		"	39.4		101	81.2-123			
Surrogate: Dibromofluoromethane	46.4		"	39.4		118	95.7-135			

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

### Semivolatile Organic Compounds by EPA Method 8270C - 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 8020521 - EPA 3550 ECD/GCMS

##### Blank (8020521-BLK1)

Prepared: 02/05/18 Analyzed: 02/06/18

Carbazole	ND	300	ug/kg
Phenol	ND	1000	"
Aniline	ND	300	"
2-Chlorophenol	ND	1000	"
1,4-Dichlorobenzene	ND	300	"
N-Nitrosodi-n-propylamine	ND	300	"
1,2,4-Trichlorobenzene	ND	300	"
4-Chloro-3-methylphenol	ND	1000	"
1-Methylnaphthalene	ND	300	"
2-Methylnaphthalene	ND	300	"
Acenaphthene	ND	300	"
4-Nitrophenol	ND	1000	"
2,4-Dinitrotoluene	ND	300	"
Pentachlorophenol	ND	1000	"
Pyrene	ND	300	"
Acenaphthylene	ND	300	"
Anthracene	ND	300	"
Benzo (a) anthracene	ND	300	"
Benzo (b) fluoranthene	ND	300	"
Benzo (k) fluoranthene	ND	300	"
Benzo (g,h,i) perylene	ND	1000	"
Benzo (a) pyrene	ND	300	"
Benzyl alcohol	ND	300	"
Bis(2-chloroethoxy)methane	ND	300	"
Bis(2-chloroethyl)ether	ND	300	"
Bis(2-chloroisopropyl)ether	ND	300	"
Bis(2-ethylhexyl)phthalate	ND	300	"
4-Bromophenyl phenyl ether	ND	300	"
Butyl benzyl phthalate	ND	300	"
4-Chloroaniline	ND	300	"
2-Chloronaphthalene	ND	300	"
4-Chlorophenyl phenyl ether	ND	300	"
Chrysene	ND	300	"
Dibenz (a,h) anthracene	ND	300	"
Dibenzofuran	ND	300	"
Di-n-butyl phthalate	ND	300	"

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

### Semivolatile Organic Compounds by EPA Method 8270C - 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 8020521 - EPA 3550 ECD/GCMS

##### Blank (8020521-BLK1)

Prepared: 02/05/18 Analyzed: 02/06/18

1,2-Dichlorobenzene	ND	300	ug/kg
1,3-Dichlorobenzene	ND	300	"
2,4-Dichlorophenol	ND	1000	"
Diethyl phthalate	ND	300	"
2,4-Dimethylphenol	ND	1000	"
Dimethyl phthalate	ND	300	"
4,6-Dinitro-2-methylphenol	ND	1000	"
2,4-Dinitrophenol	ND	1000	"
2,6-Dinitrotoluene	ND	1000	"
Di-n-octyl phthalate	ND	300	"
Fluoranthene	ND	300	"
Fluorene	ND	300	"
Hexachlorobenzene	ND	1500	"
Hexachlorobutadiene	ND	300	"
Hexachlorocyclopentadiene	ND	1000	"
Hexachloroethane	ND	300	"
Indeno (1,2,3-cd) pyrene	ND	300	"
Isophorone	ND	300	"
2-Methylphenol	ND	1000	"
4-Methylphenol	ND	1000	"
Naphthalene	ND	300	"
2-Nitroaniline	ND	300	"
3-Nitroaniline	ND	300	"
4-Nitroaniline	ND	300	"
Nitrobenzene	ND	1000	"
2-Nitrophenol	ND	1000	"
N-Nitrosodimethylamine	ND	300	"
N-Nitrosodiphenylamine	ND	300	"
2,3,5,6-Tetrachlorophenol	ND	300	"
2,3,4,6-Tetrachlorophenol	ND	300	"
Phenanthrene	ND	300	"
Azobenzene	ND	300	"
2,4,5-Trichlorophenol	ND	1000	"
Pyridine	ND	300	"
2,4,6-Trichlorophenol	ND	1000	"

SunStar Laboratories, Inc.

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

## Semivolatile Organic Compounds by EPA Method 8270C - 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 8020521 - EPA 3550 ECD/GCMS

#### Blank (8020521-BLK1)

Prepared: 02/05/18 Analyzed: 02/06/18

Surrogate: 2-Fluorophenol	1890		ug/kg	3370		56.0	15-121			
Surrogate: Phenol-d6	1990		"	3370		59.1	24-113			
Surrogate: Nitrobenzene-d5	2250		"	3370		66.6	21.3-119			
Surrogate: 2-Fluorobiphenyl	2370		"	3370		70.4	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2590		"	3370		76.9	18.1-105			
Surrogate: Terphenyl-d14	3150		"	3370		93.5	29.1-130			

#### LCS (8020521-BS1)

Prepared: 02/05/18 Analyzed: 02/06/18

Phenol	1840	1000	ug/kg	3320		55.4	34-114			
2-Chlorophenol	1990	1000	"	3320		59.8	34-114			
1,4-Dichlorobenzene	1900	300	"	3320		57.0	34-114			
N-Nitrosodi-n-propylamine	2350	300	"	3320		70.7	30-110			
1,2,4-Trichlorobenzene	2020	300	"	3320		60.6	39-119			
4-Chloro-3-methylphenol	2490	1000	"	3320		75.0	50-130			
Acenaphthene	2170	300	"	3320		65.3	34-114			
Pentachlorophenol	3020	1000	"	3320		90.9	50-130			
Pyrene	1860	300	"	3320		55.9	30-110			
Surrogate: 2-Fluorophenol	1870		"	3320		56.2	15-121			
Surrogate: Phenol-d6	2040		"	3320		61.3	24-113			
Surrogate: Nitrobenzene-d5	2220		"	3320		66.7	21.3-119			
Surrogate: 2-Fluorobiphenyl	2460		"	3320		74.0	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2780		"	3320		83.7	18.1-105			
Surrogate: Terphenyl-d14	3260		"	3320		98.2	29.1-130			

#### LCS Dup (8020521-BSD1)

Prepared: 02/05/18 Analyzed: 02/06/18

Phenol	1920	1000	ug/kg	3350		57.3	34-114	4.06	42	
2-Chlorophenol	2060	1000	"	3350		61.6	34-114	3.61	40	
1,4-Dichlorobenzene	1990	300	"	3350		59.5	34-114	4.94	28	
N-Nitrosodi-n-propylamine	2430	300	"	3350		72.6	30-110	3.32	38	
1,2,4-Trichlorobenzene	2160	300	"	3350		64.6	39-119	7.05	28	
4-Chloro-3-methylphenol	2630	1000	"	3350		78.5	50-130	5.24	42	
Acenaphthene	2290	300	"	3350		68.4	34-114	5.24	31	
Pentachlorophenol	2980	1000	"	3350		88.9	50-130	1.49	50	
Pyrene	1930	300	"	3350		57.8	30-110	3.87	31	
Surrogate: 2-Fluorophenol	1910		"	3350		57.2	15-121			
Surrogate: Phenol-d6	2080		"	3350		62.2	24-113			

SunStar Laboratories, Inc.

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Rose Fasheh, 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: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 18:10

**Semivolatile Organic Compounds by EPA Method 8270C - 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 8020521 - EPA 3550 ECD/GCMS**

**LCS Dup (8020521-BSD1)**

Prepared: 02/05/18 Analyzed: 02/06/18

Surrogate: Nitrobenzene-d5	2270		ug/kg	3350		67.9	21.3-119			
Surrogate: 2-Fluorobiphenyl	2560		"	3350		76.5	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2770		"	3350		82.9	18.1-105			
Surrogate: Terphenyl-d14	3410		"	3350		102	29.1-130			

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 18:10

### 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).

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.

S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

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.

QR-04 The percent recovery and/or RPD was outside acceptance criteria. Results accepted based upon percent recovery results in duplicate QC sample and the CCV and CCB results.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

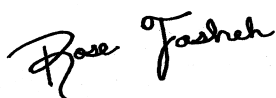
NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



**SunStar  
Laboratories**

**Chain of Custody Record**

25712 Commerce Drive, Lake Forest, CA 92630  
949-297-5020

Client: Northgate Environmental  
Address: 24411 Ridge Route #130 Laguna Hills  
Phone: (949) 716-0050 Fax: (949) 716-0055  
Project Manager: Derrick Willis

Date: 1-30-2018 Page: 1 Of 2  
Project Name: 3rd & Fairfax  
Collector: Dana Brown Client Project #: 2047.15  
Batch #: 7180832 EDF #: \_\_\_\_\_

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	Laboratory ID #	Comments/Preservative	Total # of containers
1A-2018-01-30-A	01/30/2018	07:10	AD	V	H										01		2
B-5-1.0	1-30-18	07:31	SD	V+GS											02		7
B-5-5.0		07:50		V+AC											03		7
B-5-10.0		07:55													04		7
B-5-15.0		07:58													05		7
B-5-20.0		08:03													06		7
B-5-25.0		08:10													07		7
B-5-30.0		08:23													08		7
B-14-1.0		08:45		V+GS											09		7
B-14-5.0		08:52		V+AC											10		7
B-14-10.0		08:59		V+AC											11		7
B-14-15.0		09:03													12		7
B-14-20.0		09:07													13		7
B-14-25.0		09:09													14		7
B-14-30.0		09:19													15		7
Relinquished by: (signature) <u>[Signature]</u>				Date / Time	Received by: (signature) <u>[Signature]</u>										Date / Time	Total # of containers	
				1-30-18 14:10											1-30-18 14:10	100	
Relinquished by: (signature) <u>[Signature]</u>				Date / Time	Received by: (signature) <u>[Signature]</u>										Date / Time	Chain of Custody seals Y/N (NA)	
				1-30-18 16:02											1-30-18 16:02	Seals intact? Y/N (NA)	
Relinquished by: (signature) <u>[Signature]</u>				Date / Time	Received by: (signature) <u>[Signature]</u>										Date / Time	Received good condition/cold	
																4.7	

Turn around time: \_\_\_\_\_

Sample disposal instructions: \_\_\_\_\_ Disposal @ \$2.00 each \_\_\_\_\_ Return to client \_\_\_\_\_ Pickup \_\_\_\_\_

V = 40ml VWR glass  
GS = 802 Glass Jar  
AC = Acetate core  
H = Hold for instructions  
AQ = Aqueous SO = 50:1  
A = Analyte  
COC 172264



**SunStar  
Laboratories**

**Chain of Custody Record**

25712 Commerce Drive, Lake Forest, CA 92630  
949-297-5020

Client: Northgate Environmental  
Address: 2411 Ridge Road #130, Laguna Hills  
Phone: (949) 716-0050 Fax: (949) 716-0055  
Project Manager: Derrick Willis

Date: 1-30-2018 Page: 2 of 2  
Project Name: 3rd & Fairfax  
Collector: Dana Brown Client Project #: 2047.15  
Batch #: 710352 EDF #: \_\_\_\_\_

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	Laboratory ID #	Comments/Preservative	Total # of containers	
B-3-14	1-30-2018	09:50	AA	V+PE											16		9	
B-3-1.0		10:35	SO	V+AS											17		7	
B-3-5.0		10:44		V+AC											18		7	
B-3-10.0		10:48													19		7	
B-3-15.0		10:52													20		7	
B-3-20.0		10:57													21		7	
B-3-25.0		11:00													22		7	
B-3-30.0		11:12	V	V											23		7	
B-3-1.0		12:05	AA	V+PE											24		9	
B-3-5.0		13:07	SO	V+AS											25		7	
B-3-10.0		13:14		V+AC											26		7	
B-3-15.0		13:18													27		7	
B-3-20.0		13:22													28		7	
B-3-25.0		13:27													29		7	
B-3-30.0		13:31	V	V											30		7	
Relinquished by: (signature) <u>[Signature]</u>				Date / Time	Received by: (signature) <u>[Signature]</u>	Date / Time	Total # of containers								109	V = 40 ml glass VOA		
Relinquished by: (signature) <u>[Signature]</u>				1-30-18 14:10	Received by: (signature) <u>[Signature]</u>	1-30-18 14:10	Chain of Custody seals Y/N/NA								109	GS = 602 glass jar		
Relinquished by: (signature) <u>[Signature]</u>				1-30-18 16:02	Received by: (signature) <u>[Signature]</u>	1-30-18 16:02	Seals intact? Y/N/NA								109	AC = Acetone core		
Relinquished by: (signature) <u>[Signature]</u>					Received by: (signature) <u>[Signature]</u>		Received good condition/cold								109	H = Hold for instructions		
Relinquished by: (signature) <u>[Signature]</u>					Received by: (signature) <u>[Signature]</u>		Turn around time: _____								109	AA = Aqueous SO = 50.1		
Relinquished by: (signature) <u>[Signature]</u>					Received by: (signature) <u>[Signature]</u>										109	A = Analyte		

Sample disposal instructions: Disposal @ \$2.00 each \_\_\_\_\_ Return to client \_\_\_\_\_ Pickup \_\_\_\_\_

COC 172251



Page 116 of 126

COC 172263

## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 7180352

Client Name: NORTHGATE ENV. Project: 3RD & FAIRFAX

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: JOEY Date/Time Courier Received: 1:30-18 / 14:10

Lab Received by: BRIAN Date/Time Lab Received: 1:30-18 / 16:02

Total number of coolers received: 0

Temperature: Cooler #1	4.9 °C +/- the CF (- 0.2°C) = 4.7	°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

**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:

SL 1:30-18

Comments:



**SunStar  
Laboratories**

**Chain of Custody Record**

25712 Commerce Centre Drive, Lake Forest, CA 92630  
949-297-5020

Client: Northgate Environmental  
Address: 2441 Ridge Route #130 Laguna Hills  
Phone: (949) 716-0050 Fax: (949) 716-0055  
Project Manager: Derrick Williams

Date: 1-30-2018 Page: 1 of 2  
Project Name: 3rd & Fairfax  
Collector: Dana Brown Client Project #: 2047.15  
Batch #: 782822 EDF #: \_\_\_\_\_

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	8082 PCBs	8081 OCBs	Laboratory ID #	Comments/Preservative	Total # of containers
TB-2018-01-30-A	01/30/2018	07:10	AS	V	X			X		X	X	X	X	X	X	X	01		2
B-5-1.0	1-30-18	07:31	SO	V+GS	X			X		X	X	X	X	X	X	X	02		7
B-5-5.0		07:50		V+AC	X			X		X	X	X	X	X	X	X	03		7
B-5-10.0		07:55			X			X		X	X	X	X	X	X	X	04		7
B-5-15.0		07:58			X			X		X	X	X	X	X	X	X	05		7
B-5-20.0		08:03			X			X		X	X	X	X	X	X	X	06		7
B-5-25.0		08:10			X			X		X	X	X	X	X	X	X	07		7
B-5-30.0		08:23			X			X		X	X	X	X	X	X	X	08		7
B-14-1.0		08:45		V+GS	X			X		X	X	X	X	X	X	X	09		7
B-14-5.0		08:52		V+AC	X			X		X	X	X	X	X	X	X	10		7
B-14-10.0		08:59		V+AC	X			X		X	X	X	X	X	X	X	11		7
B-14-15.0		09:03			X			X		X	X	X	X	X	X	X	12		7
B-14-20.0		09:07			X			X		X	X	X	X	X	X	X	13		7
B-14-25.0		09:09			X			X		X	X	X	X	X	X	X	14		7
B-14-30.0		09:19			X			X		X	X	X	X	X	X	X	15		7
Relinquished by: (signature)	Date / Time		Received by: (signature)	Date / Time	Total # of containers										Chain of Custody seals Y/N/A				
1-30-18	14:10		1-30-18	14:10											Seals intact? Y/N/A				
Relinquished by: (signature)	Date / Time		Received by: (signature)	Date / Time															
1-30-18	16:02		1-30-18	16:02															
Relinquished by: (signature)	Date / Time		Received by: (signature)	Date / Time															
Turn around time:																			

V = 400ml Vials glass  
GS = 502 Glass Jar  
AC = Acetone Care  
H = Hold for instructions  
AG = Aqueous SO = 50.1  
A = Analyte  
COC 1772264





**SunStar  
Laboratories**

25712 Commerce Centre Drive, Lake Forest, CA 92630  
949-297-5020

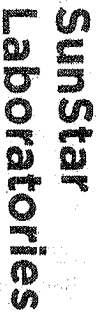
**Chain of Custody Record**

Client: Northgate Environmental  
Address: 2411 Ridge Route #130, Laguna Hills  
Phone: (949) 716-0050 Fax: (949) 716-0055  
Project Manager: Derrick Willis

Date: 1-30-2018 Page: 2 of 2  
Project Name: 3rd & Fairfax  
Collector: Dana Brown Client Project #: 2017.15  
Batch #: \_\_\_\_\_ EDF #: \_\_\_\_\_

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	8082 PCBs	8081 OCPs	Laboratory ID #	Comments/Preservative	Total # of containers
B-3-14	1-30-2018	09:50	AA	V+PE	X			X		X	X	X	X	X	X	X			7
B-3-1.0		10:35	SO	V+AS	X			X		X	X	X	X	X	X	X			7
B-3-5.0		10:44		V+AC	X			X		X	X	X	X	X	X	X			7
B-3-10.0		10:48			X			X		X	X	X	X	X	X	X			7
B-3-15.0		10:52			X			X		X	X	X	X	X	X	X			7
B-3-20.0		10:57			X			X		X	X	X	X	X	X	X			7
B-3-25.0		11:00			X			X		X	X	X	X	X	X	X			7
B-3-30.0		11:12			X			X		X	X	X	X	X	X	X			7
B-3		12:05	AA	V+PE	X			X		X	X	X	X	X	X	X			7
B-13-1.0		13:07	SO	V+AS	X			X		X	X	X	X	X	X	X			7
B-13-5.0		13:14		V+AC	X			X		X	X	X	X	X	X	X			7
B-13-10.0		13:18			X			X		X	X	X	X	X	X	X			7
B-13-15.0		13:22			X			X		X	X	X	X	X	X	X			7
B-13-20.0		13:27			X			X		X	X	X	X	X	X	X			7
B-13-25.0		13:31			X			X		X	X	X	X	X	X	X			7
Relinquished by: (signature)	Date / Time		Received by: (signature)	Date / Time															
Relinquished by: (signature)	1-30-18		Received by: (signature)	Date / Time															
Relinquished by: (signature)	Date / Time		Received by: (signature)	Date / Time															
Turn around time:																			

COC 172251









25712 Commerce Centre Drive, Lake Forest, CA 92630  
949-297-5020

Date: 1-30-2018 Page: 3 of 3  
Project Name: 3rd & Fairfax  
Collector: Dana Brown Client Project #: 2047.15  
Batch #: \_\_\_\_\_ EDF #: \_\_\_\_\_

Page 120 of 126

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	Laboratory ID #	Comments/Preservative	Total # of containers
10-2018-01-30-0	1-30-2018	12:10	AA	V													2
3-13-30-0			AA	V+GC													9
3-13	1-30-18	14:03	AA	V+PE	X					X							
<div style="text-align: center;"> <p>025</p> <p>1-30-18</p> </div>																	
Relinquished by: (signature)			Date / Time			Received by: (signature)			Date / Time			Total # of containers			Notes		
1-30-2018			14:15									11					
Relinquished by: (signature)			Date / Time			Received by: (signature)			Date / Time			Chain of Custody seals Y/N/N/A			Seals intact? Y/N/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:					

**WORK ORDER**

**T180352**

**Client:** Northgate Environmental Management -- Laguna      **Project Manager:** Rose Fasheh  
**Project:** 3rd & Fairfax      **Project Number:** 2047.15

**Report To:**

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

Date Due: 02/08/18 17:00 (5 day TAT)  
Received By: Sunny Lounethone      Date Received: 01/30/18 16:02  
Logged In By: Sunny Lounethone      Date Logged In: 01/30/18 16:25

Samples Received at: **4.7°C**  
Custody Seals      No      Received On Ice      Yes  
Containers Intact      Yes  
COC/Labels Agree      Yes  
Preservation Confir      Yes

Analysis	Due	TAT	Expires	Comments
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<b>T180352-01 TB-2018.01.30-A [Water] Sampled 01/30/18 07:10 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
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**T180352-02 B-5-1.0 [Soil] Sampled 01/30/18 07:31 (GMT-08:00) Pacific Time (US &**

6010 Title 22	02/08/18 15:00	5	07/29/18 07:31
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 07:31
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 07:31
8081 Pesticides	02/08/18 15:00	5	02/13/18 07:31
8082 PCB	02/08/18 15:00	5	02/13/18 07:31
8260 5035	02/08/18 15:00	5	02/13/18 07:31
8270C	02/08/18 15:00	5	02/13/18 07:31

<b>T180352-03 B-5-5.0 [Soil] Sampled 01/30/18 07:50 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
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**WORK ORDER**

**T180352**

<b>Client:</b> Northgate Environmental Management -- Laguna	<b>Project Manager:</b> Rose Fasheh
<b>Project:</b> 3rd & Fairfax	<b>Project Number:</b> 2047.15

Analysis	Due	TAT	Expires	Comments
<b>T180352-04 B-5-10.0 [Soil] Sampled 01/30/18 07:55 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Title 22	02/08/18 15:00	5	07/29/18 07:55	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 07:55	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 07:55	
8082 PCB	02/08/18 15:00	5	02/13/18 07:55	
8260 5035	02/08/18 15:00	5	02/13/18 07:55	
8270C	02/08/18 15:00	5	02/13/18 07:55	
<b>T180352-05 B-5-15.0 [Soil] Sampled 01/30/18 07:58 (GMT-08:00) Pacific Time HOLD</b>				
<b>(US &amp;</b>				
<b>[NO ANALYSES]</b>				
<b>T180352-06 B-5-20.0 [Soil] Sampled 01/30/18 08:03 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Title 22	02/08/18 15:00	5	07/29/18 08:03	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 08:03	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 08:03	
8082 PCB	02/08/18 15:00	5	02/13/18 08:03	
8260 5035	02/08/18 15:00	5	02/13/18 08:03	
8270C	02/08/18 15:00	5	02/13/18 08:03	
<b>T180352-07 B-5-25.0 [Soil] Sampled 01/30/18 08:10 (GMT-08:00) Pacific Time HOLD</b>				
<b>(US &amp;</b>				
<b>[NO ANALYSES]</b>				
<b>T180352-08 B-5-30.0 [Soil] Sampled 01/30/18 08:23 (GMT-08:00) Pacific Time HOLD</b>				
<b>(US &amp;</b>				
<b>[NO ANALYSES]</b>				
<b>T180352-09 B-14-1.0 [Soil] Sampled 01/30/18 08:45 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Title 22	02/08/18 15:00	5	07/29/18 08:45	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 08:45	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 08:45	
8081 Pesticides	02/08/18 15:00	5	02/13/18 08:45	
8082 PCB	02/08/18 15:00	5	02/13/18 08:45	
8260 5035	02/08/18 15:00	5	02/13/18 08:45	
8270C	02/08/18 15:00	5	02/13/18 08:45	

**WORK ORDER**

**T180352**

<b>Client:</b> Northgate Environmental Management -- Laguna	<b>Project Manager:</b> Rose Fasheh
<b>Project:</b> 3rd & Fairfax	<b>Project Number:</b> 2047.15

Analysis	Due	TAT	Expires	Comments
<b>T180352-10 B-14-5.0 [Soil] Sampled 01/30/18 08:52 (GMT-08:00) Pacific Time HOLD</b> (US & [NO ANALYSES]				
<b>T180352-11 B-14-10.0 [Soil] Sampled 01/30/18 08:59 (GMT-08:00) Pacific Time</b> (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 08:59	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 08:59	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 08:59	
8082 PCB	02/08/18 15:00	5	02/13/18 08:59	
8260 5035	02/08/18 15:00	5	02/13/18 08:59	
8270C	02/08/18 15:00	5	02/13/18 08:59	
<b>T180352-12 B-14-15.0 [Soil] Sampled 01/30/18 09:03 (GMT-08:00) Pacific Time HOLD</b> (US & [NO ANALYSES]				
<b>T180352-13 B-14-20.0 [Soil] Sampled 01/30/18 09:07 (GMT-08:00) Pacific Time</b> (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 09:07	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 09:07	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 09:07	
8082 PCB	02/08/18 15:00	5	02/13/18 09:07	
8260 5035	02/08/18 15:00	5	02/13/18 09:07	
8270C	02/08/18 15:00	5	02/13/18 09:07	
<b>T180352-14 B-14-25.0 [Soil] Sampled 01/30/18 09:09 (GMT-08:00) Pacific Time HOLD</b> (US & [NO ANALYSES]				
<b>T180352-15 B-14-30.0 [Soil] Sampled 01/30/18 09:19 (GMT-08:00) Pacific Time HOLD</b> (US & [NO ANALYSES]				
<b>T180352-16 B-14 [Water] Sampled 01/30/18 09:50 (GMT-08:00) Pacific Time</b> (US &				
8015 CC (D/MO)	02/08/18 15:00	5	02/06/18 09:50	
8015 m Gas Purge	02/08/18 15:00	5	02/13/18 09:50	
8260	02/08/18 15:00	5	02/13/18 09:50	

**WORK ORDER**

**T180352**

<b>Client:</b> Northgate Environmental Management -- Laguna	<b>Project Manager:</b> Rose Fasheh
<b>Project:</b> 3rd & Fairfax	<b>Project Number:</b> 2047.15

Analysis	Due	TAT	Expires	Comments
<b>T180352-17 B-3-1.0 [Soil] Sampled 01/30/18 10:35 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Title 22	02/08/18 15:00	5	07/29/18 10:35	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 10:35	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 10:35	
8081 Pesticides	02/08/18 15:00	5	02/13/18 10:35	
8082 PCB	02/08/18 15:00	5	02/13/18 10:35	
8260 5035	02/08/18 15:00	5	02/13/18 10:35	
8270C	02/08/18 15:00	5	02/13/18 10:35	
<b>T180352-18 B-3-5.0 [Soil] Sampled 01/30/18 10:44 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
<b>[NO ANALYSES]</b>				
<b>T180352-19 B-3-10.0 [Soil] Sampled 01/30/18 10:48 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Title 22	02/08/18 15:00	5	07/29/18 10:48	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 10:48	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 10:48	
8082 PCB	02/08/18 15:00	5	02/13/18 10:48	
8260 5035	02/08/18 15:00	5	02/13/18 10:48	
8270C	02/08/18 15:00	5	02/13/18 10:48	
<b>T180352-20 B-3-15.0 [Soil] Sampled 01/30/18 10:52 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
<b>[NO ANALYSES]</b>				
<b>T180352-21 B-3-20.0 [Soil] Sampled 01/30/18 10:57 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Title 22	02/08/18 15:00	5	07/29/18 10:57	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 10:57	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 10:57	
8082 PCB	02/08/18 15:00	5	02/13/18 10:57	
8260 5035	02/08/18 15:00	5	02/13/18 10:57	
8270C	02/08/18 15:00	5	02/13/18 10:57	
<b>T180352-22 B-3-25.0 [Soil] Sampled 01/30/18 11:00 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
<b>[NO ANALYSES]</b>				

**WORK ORDER**

**T180352**

<b>Client:</b> Northgate Environmental Management -- Laguna	<b>Project Manager:</b> Rose Fasheh
<b>Project:</b> 3rd & Fairfax	<b>Project Number:</b> 2047.15

Analysis	Due	TAT	Expires	Comments
<b>T180352-23 B-3-30.0 [Soil] Sampled 01/30/18 11:12 (GMT-08:00) Pacific Time HOLD</b> (US & [NO ANALYSES]				
<b>T180352-24 B-3 [Water] Sampled 01/30/18 12:05 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Title 22	02/08/18 15:00	5	07/29/18 12:05	
8015 CC (D/MO)	02/08/18 15:00	5	02/06/18 12:05	
8015 m Gas Purge	02/08/18 15:00	5	02/13/18 12:05	
8260	02/08/18 15:00	5	02/13/18 12:05	
<b>T180352-25 B-13-1.0 [Soil] Sampled 01/30/18 13:07 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Title 22	02/08/18 15:00	5	07/29/18 13:07	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 13:07	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 13:07	
8081 Pesticides	02/08/18 15:00	5	02/13/18 13:07	
8082 PCB	02/08/18 15:00	5	02/13/18 13:07	
8260 5035	02/08/18 15:00	5	02/13/18 13:07	
8270C	02/08/18 15:00	5	02/13/18 13:07	
<b>T180352-26 B-13-5.0 [Soil] Sampled 01/30/18 13:14 (GMT-08:00) Pacific Time HOLD</b> (US & [NO ANALYSES]				
<b>T180352-27 B-13-10.0 [Soil] Sampled 01/30/18 13:18 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Title 22	02/08/18 15:00	5	07/29/18 13:18	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 13:18	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 13:18	
8082 PCB	02/08/18 15:00	5	02/13/18 13:18	
8260 5035	02/08/18 15:00	5	02/13/18 13:18	
8270C	02/08/18 15:00	5	02/13/18 13:18	

**WORK ORDER**

**T180352**

**Client:** Northgate Environmental Management -- Laguna      **Project Manager:** Rose Fasheh  
**Project:** 3rd & Fairfax      **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
<b>T180352-28 B-13-15.0 [Soil] Sampled 01/30/18 13:22 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Title 22	02/08/18 15:00	5	07/29/18 13:22	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 13:22	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 13:22	
8082 PCB	02/08/18 15:00	5	02/13/18 13:22	
8260 5035	02/08/18 15:00	5	02/13/18 13:22	
8270C	02/08/18 15:00	5	02/13/18 13:22	

**T180352-29 B-13-20.0 [Soil] Sampled 01/30/18 13:27 (GMT-08:00) Pacific Time HOLD (US &**  
[NO ANALYSES]

**T180352-30 B-13-25.0 [Soil] Sampled 01/30/18 13:31 (GMT-08:00) Pacific Time HOLD (US &**  
[NO ANALYSES]

**T180352-31 TB-2018.01.30-B [Water] Sampled 01/30/18 12:10 (GMT-08:00) HOLD Pacific Time (US &**  
[NO ANALYSES]

**T180352-32 B-13 [Water] Sampled 01/30/18 14:03 (GMT-08:00) Pacific Time (US &**

8015 CC (D/MO)	02/08/18 15:00	5	02/06/18 14:03
8015 m Gas Purge	02/08/18 15:00	5	02/13/18 14:03
8260	02/08/18 15:00	5	02/13/18 14:03

**Analysis groups included in this work order**

6010 Title 22

subgroup 6010B T22      7470/71 Hg





25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

08 February 2018

Derrick Willis  
Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
Laguna Hills, CA 92653  
RE: 3rd & Fairfax

Enclosed are the results of analyses for samples received by the laboratory on 01/31/18 16:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rose Fasheh  
Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

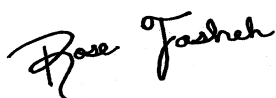
**Reported:**  
02/08/18 15:47

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B- 8-1.0	T180381-02	Soil	01/31/18 07:25	01/31/18 16:25
B- 8-10.0	T180381-04	Soil	01/31/18 07:33	01/31/18 16:25
B- 8-15.0	T180381-05	Soil	01/31/18 07:39	01/31/18 16:25
B- 8-20.0	T180381-06	Soil	01/31/18 07:44	01/31/18 16:25
B- 12-1.0	T180381-09	Soil	01/31/18 08:10	01/31/18 16:25
B- 12-10.0	T180381-11	Soil	01/31/18 08:20	01/31/18 16:25
B- 12-20.0	T180381-13	Soil	01/31/18 08:28	01/31/18 16:25
B- 4-1.0	T180381-16	Soil	01/31/18 09:40	01/31/18 16:25
B- 4-10.0	T180381-18	Soil	01/31/18 09:50	01/31/18 16:25
B- 4-15.0	T180381-19	Soil	01/31/18 09:55	01/31/18 16:25
B- 4-20.0	T180381-20	Soil	01/31/18 10:00	01/31/18 16:25
B-4	T180381-23	Water	01/31/18 10:25	01/31/18 16:25
B- 15-1.0	T180381-24	Soil	01/31/18 10:45	01/31/18 16:25
B- 15-10.0	T180381-26	Soil	01/31/18 10:52	01/31/18 16:25
B- 15-20.0	T180381-28	Soil	01/31/18 11:00	01/31/18 16:25
B- 10-1.0	T180381-32	Soil	01/31/18 13:12	01/31/18 16:25
B- 10-10.0	T180381-34	Soil	01/31/18 13:18	01/31/18 16:25
B- 10-20.0	T180381-36	Soil	01/31/18 13:24	01/31/18 16:25

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**Reported:**  
02/08/18 15:47

### DETECTIONS SUMMARY

**Sample ID:** B- 8-1.0

**Laboratory ID:** T180381-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	35	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	120	10	mg/kg	EPA 8015B	
Barium	92	1.0	mg/kg	EPA 6010B	
Chromium	20	2.0	mg/kg	EPA 6010B	
Cobalt	9.5	2.0	mg/kg	EPA 6010B	
Copper	8.5	1.0	mg/kg	EPA 6010B	
Nickel	14	2.0	mg/kg	EPA 6010B	
Vanadium	33	5.0	mg/kg	EPA 6010B	
Zinc	33	1.0	mg/kg	EPA 6010B	

**Sample ID:** B- 8-10.0

**Laboratory ID:** T180381-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C6-C12 (GRO)	21	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	180	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	150	10	mg/kg	EPA 8015B	
Barium	53	1.0	mg/kg	EPA 6010B	
Chromium	9.5	2.0	mg/kg	EPA 6010B	
Cobalt	6.4	2.0	mg/kg	EPA 6010B	
Copper	6.0	1.0	mg/kg	EPA 6010B	
Nickel	7.8	2.0	mg/kg	EPA 6010B	
Vanadium	21	5.0	mg/kg	EPA 6010B	
Zinc	20	1.0	mg/kg	EPA 6010B	
sec-Butylbenzene	2.0	1.8	ug/kg	EPA 8260B/5035	

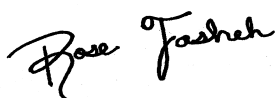
**Sample ID:** B- 8-15.0

**Laboratory ID:** T180381-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	46	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	48	10	mg/kg	EPA 8015B	
sec-Butylbenzene	5.8	1.8	ug/kg	EPA 8260B/5035	

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Reported:  
02/08/18 15:47

Sample ID: B- 8-20.0

Laboratory ID: T180381-06

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	140	1.0		mg/kg	EPA 6010B	
Chromium	30	2.0		mg/kg	EPA 6010B	
Cobalt	12	2.0		mg/kg	EPA 6010B	
Copper	15	1.0		mg/kg	EPA 6010B	
Nickel	21	2.0		mg/kg	EPA 6010B	
Vanadium	34	5.0		mg/kg	EPA 6010B	
Zinc	49	1.0		mg/kg	EPA 6010B	
Benzene	3.2	1.8		ug/kg	EPA 8260B/5035	

Sample ID: B- 12-1.0

Laboratory ID: T180381-09

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C6-C12 (GRO)	23	10		mg/kg	EPA 8015B	
C13-C28 (DRO)	260	10		mg/kg	EPA 8015B	
C29-C40 (MORO)	950	10		mg/kg	EPA 8015B	
Barium	91	1.0		mg/kg	EPA 6010B	
Chromium	18	2.0		mg/kg	EPA 6010B	
Cobalt	9.6	2.0		mg/kg	EPA 6010B	
Copper	11	1.0		mg/kg	EPA 6010B	
Nickel	14	2.0		mg/kg	EPA 6010B	
Vanadium	33	5.0		mg/kg	EPA 6010B	
Zinc	34	1.0		mg/kg	EPA 6010B	

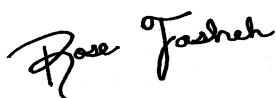
Sample ID: B- 12-10.0

Laboratory ID: T180381-11

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	46	10		mg/kg	EPA 8015B	
Barium	51	1.0		mg/kg	EPA 6010B	
Chromium	27	2.0		mg/kg	EPA 6010B	
Cobalt	4.8	2.0		mg/kg	EPA 6010B	
Copper	4.6	1.0		mg/kg	EPA 6010B	
Nickel	9.8	2.0		mg/kg	EPA 6010B	
Vanadium	22	5.0		mg/kg	EPA 6010B	
Zinc	20	1.0		mg/kg	EPA 6010B	

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Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

Sample ID: B- 12-20.0

Laboratory ID: T180381-13

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	81	1.0		mg/kg	EPA 6010B	
Chromium	18	2.0		mg/kg	EPA 6010B	
Cobalt	14	2.0		mg/kg	EPA 6010B	
Copper	13	1.0		mg/kg	EPA 6010B	
Nickel	15	2.0		mg/kg	EPA 6010B	
Vanadium	23	5.0		mg/kg	EPA 6010B	
Zinc	30	1.0		mg/kg	EPA 6010B	

Sample ID: B- 4-1.0

Laboratory ID: T180381-16

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	210	10		mg/kg	EPA 8015B	
C29-C40 (MORO)	1300	10		mg/kg	EPA 8015B	
Barium	84	1.0		mg/kg	EPA 6010B	
Chromium	19	2.0		mg/kg	EPA 6010B	
Cobalt	11	2.0		mg/kg	EPA 6010B	
Copper	10	1.0		mg/kg	EPA 6010B	
Nickel	13	2.0		mg/kg	EPA 6010B	
Vanadium	36	5.0		mg/kg	EPA 6010B	
Zinc	46	1.0		mg/kg	EPA 6010B	

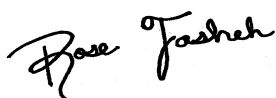
Sample ID: B- 4-10.0

Laboratory ID: T180381-18

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	39	1.0		mg/kg	EPA 6010B	
Chromium	19	2.0		mg/kg	EPA 6010B	
Cobalt	9.0	2.0		mg/kg	EPA 6010B	
Copper	7.3	1.0		mg/kg	EPA 6010B	
Nickel	15	2.0		mg/kg	EPA 6010B	
Vanadium	27	5.0		mg/kg	EPA 6010B	
Zinc	24	1.0		mg/kg	EPA 6010B	
Benzene	3.2	1.8		ug/kg	EPA 8260B/5035	

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**Reported:**  
02/08/18 15:47

**Sample ID:** B- 4-15.0

**Laboratory ID:** T180381-19

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	1100	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	1000	10	mg/kg	EPA 8015B	
Benzene	2.4	2.2	ug/kg	EPA 8260B/5035	

**Sample ID:** B- 4-20.0

**Laboratory ID:** T180381-20

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	31	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	42	10	mg/kg	EPA 8015B	
Benzene	3.3	1.7	ug/kg	EPA 8260B/5035	

**Sample ID:** B-4

**Laboratory ID:** T180381-23

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	1.7	0.50	mg/l	EPA 8015B	

**Sample ID:** B- 15-1.0

**Laboratory ID:** T180381-24

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	490	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	1200	10	mg/kg	EPA 8015B	

**Sample ID:** B- 15-10.0

**Laboratory ID:** T180381-26

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	47	10	mg/kg	EPA 8015B	
Benzene	2.1	1.9	ug/kg	EPA 8260B/5035	

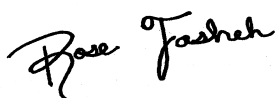
**Sample ID:** B- 15-20.0

**Laboratory ID:** T180381-28

No Results Detected

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Reported:  
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Sample ID: B- 10-1.0

Laboratory ID: T180381-32

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	63	10		mg/kg	EPA 8015B	
Barium	86	1.0		mg/kg	EPA 6010B	
Chromium	19	2.0		mg/kg	EPA 6010B	
Cobalt	10	2.0		mg/kg	EPA 6010B	
Copper	9.6	1.0		mg/kg	EPA 6010B	
Nickel	12	2.0		mg/kg	EPA 6010B	
Vanadium	39	5.0		mg/kg	EPA 6010B	
Zinc	54	1.0		mg/kg	EPA 6010B	

Sample ID: B- 10-10.0

Laboratory ID: T180381-34

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	180	1.0		mg/kg	EPA 6010B	
Chromium	18	2.0		mg/kg	EPA 6010B	
Cobalt	11	2.0		mg/kg	EPA 6010B	
Copper	6.4	1.0		mg/kg	EPA 6010B	
Nickel	10	2.0		mg/kg	EPA 6010B	
Vanadium	41	5.0		mg/kg	EPA 6010B	
Zinc	56	1.0		mg/kg	EPA 6010B	
Benzene	1.7	1.7		ug/kg	EPA 8260B/5035	

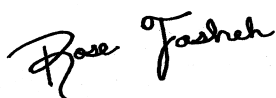
Sample ID: B- 10-20.0

Laboratory ID: T180381-36

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	25	10		mg/kg	EPA 8015B	
C29-C40 (MORO)	11	10		mg/kg	EPA 8015B	
Barium	35	1.0		mg/kg	EPA 6010B	
Chromium	11	2.0		mg/kg	EPA 6010B	
Cobalt	6.6	2.0		mg/kg	EPA 6010B	
Copper	7.5	1.0		mg/kg	EPA 6010B	
Nickel	9.7	2.0		mg/kg	EPA 6010B	
Vanadium	18	5.0		mg/kg	EPA 6010B	
Zinc	21	1.0		mg/kg	EPA 6010B	
Benzene	1.9	1.7		ug/kg	EPA 8260B/5035	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
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02/08/18 15:47

**B- 8-1.0**  
**T180381-02 (Soil)**

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	8020213	02/02/18	02/07/18	EPA 8015B
<b>C13-C28 (DRO)</b>	<b>35</b>	10	"	"	"	"	"	"
<b>C29-C40 (MORO)</b>	<b>120</b>	10	"	"	"	"	"	"
Surrogate: <i>p</i> -Terphenyl		84.6 %	65-135		"	"	"	"

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B
Silver	ND	2.0	"	"	"	"	"	"
Arsenic	ND	5.0	"	"	"	"	"	"
<b>Barium</b>	<b>92</b>	1.0	"	"	"	"	"	"
Beryllium	ND	1.0	"	"	"	"	"	"
Cadmium	ND	2.0	"	"	"	"	"	"
<b>Chromium</b>	<b>20</b>	2.0	"	"	"	"	"	"
<b>Cobalt</b>	<b>9.5</b>	2.0	"	"	"	"	"	"
<b>Copper</b>	<b>8.5</b>	1.0	"	"	"	"	"	"
Lead	ND	3.0	"	"	"	"	"	"
Molybdenum	ND	5.0	"	"	"	"	"	"
<b>Nickel</b>	<b>14</b>	2.0	"	"	"	"	"	"
Selenium	ND	5.0	"	"	"	"	"	"
Thallium	ND	2.0	"	"	"	"	"	"
<b>Vanadium</b>	<b>33</b>	5.0	"	"	"	"	"	"
<b>Zinc</b>	<b>33</b>	1.0	"	"	"	"	"	"

**Cold Vapor Extraction EPA 7470/7471**

Mercury	ND	0.10	mg/kg	1	8020540	02/05/18	02/06/18	EPA 7471A Soil
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**B- 8-1.0**  
**T180381-02 (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**

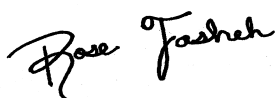
alpha-BHC	ND	50	ug/kg	10	8020134	02/01/18	02/06/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	50	"	"	"	"	"	"	R-07
beta-BHC	ND	50	"	"	"	"	"	"	R-07
delta-BHC	ND	50	"	"	"	"	"	"	R-07
Heptachlor	ND	50	"	"	"	"	"	"	R-07
Aldrin	ND	50	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	50	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	50	"	"	"	"	"	"	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	100	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	2000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		89.8 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		109 %	35-140		"	"	"	"	

**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	

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**B- 8-1.0**  
**T180381-02 (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**

Surrogate: Tetrachloro-meta-xylene	60.7 %	35-140	8020528	02/05/18	02/06/18	EPA 8082
Surrogate: Decachlorobiphenyl	56.3 %	35-140	"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.9	ug/kg	1	8020132	02/01/18	02/05/18	EPA 8260B/5035
Bromochloromethane	ND	1.9	"	"	"	"	"	"
Bromodichloromethane	ND	1.9	"	"	"	"	"	"
Bromoform	ND	1.9	"	"	"	"	"	"
Bromomethane	ND	1.9	"	"	"	"	"	"
n-Butylbenzene	ND	1.9	"	"	"	"	"	"
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"
Chlorobenzene	ND	1.9	"	"	"	"	"	"
Chloroethane	ND	1.9	"	"	"	"	"	"
Chloroform	ND	1.9	"	"	"	"	"	"
Chloromethane	ND	1.9	"	"	"	"	"	"
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"
Dibromochloromethane	ND	1.9	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	3.8	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.9	"	"	"	"	"	"
Dibromomethane	ND	1.9	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.9	"	"	"	"	"	"
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 8-1.0**  
**T180381-02 (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**

1,2-Dichloropropane	ND	1.9	ug/kg	1	8020132	02/01/18	02/05/18	EPA 8260B/5035	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
Methylene chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
Vinyl chloride	ND	1.9	"	"	"	"	"	"	
Benzene	ND	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.8	"	"	"	"	"	"	
o-Xylene	ND	1.9	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 8-1.0**  
**T180381-02 (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**

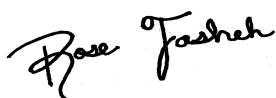
Surrogate: Toluene-d8	86.0 %	85.5-116	8020132	02/01/18	02/05/18	EPA 8260B/5035	
Surrogate: 4-Bromofluorobenzene	80.0 %	81.2-123	"	"	"	"	S-GC
Surrogate: Dibromofluoromethane	109 %	95.7-135	"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C
Phenol	ND	1000	"	"	"	"	"	"
Aniline	ND	300	"	"	"	"	"	"
2-Chlorophenol	ND	1000	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"
2-Methylnaphthalene	ND	300	"	"	"	"	"	"
1-Methylnaphthalene	ND	300	"	"	"	"	"	"
Acenaphthene	ND	300	"	"	"	"	"	"
4-Nitrophenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"
Pentachlorophenol	ND	1000	"	"	"	"	"	"
Pyrene	ND	300	"	"	"	"	"	"
Acenaphthylene	ND	300	"	"	"	"	"	"
Anthracene	ND	300	"	"	"	"	"	"
Benzo (a) anthracene	ND	300	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"
Benzo (a) pyrene	ND	300	"	"	"	"	"	"
Benzyl alcohol	ND	300	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 8-1.0**  
**T180381-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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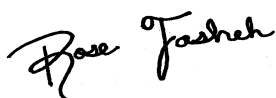
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**Semivolatile Organic Compounds by EPA Method 8270C**

4-Bromophenyl phenyl ether	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 15:47

**B- 8-1.0**  
**T180381-02 (Soil)**

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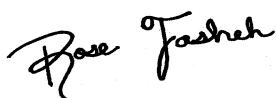
**SunStar Laboratories, Inc.**

**Semivolatile Organic Compounds by EPA Method 8270C**

4-Nitroaniline	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		67.6 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		77.5 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		83.4 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		76.0 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		80.1 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		109 %	29.1-130		"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 15:47

**B- 8-10.0**  
**T180381-04 (Soil)**

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

**Extractable Petroleum Hydrocarbons by 8015B**

<b>C6-C12 (GRO)</b>	<b>21</b>	10	mg/kg	1	8020213	02/02/18	02/07/18	EPA 8015B	
<b>C13-C28 (DRO)</b>	<b>180</b>	10	"	"	"	"	"	"	
<b>C29-C40 (MORO)</b>	<b>150</b>	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		85.3 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

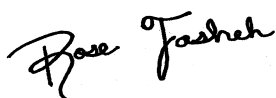
Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>53</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>9.5</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.4</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>6.0</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>7.8</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>21</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>20</b>	1.0	"	"	"	"	"	"	

**Cold Vapor Extraction EPA 7470/7471**

Mercury	ND	0.10	mg/kg	1	8020540	02/05/18	02/06/18	EPA 7471A Soil	
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Rose Fasheh, Project Manager





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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 8-10.0**  
**T180381-04 (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**

PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
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		52.3 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		51.3 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	2.0	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.8	"	"	"	"	"	"	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
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Project Manager: Derrick Willis

**Reported:**  
02/08/18 15:47

**B- 8-10.0**  
**T180381-04 (Soil)**

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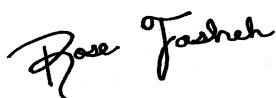
**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,4-Dichlorobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	
Trichloroethene	ND	1.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 8-10.0**  
**T180381-04 (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**

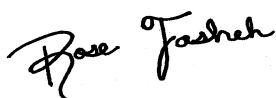
1,2,4-Trimethylbenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	ND	3.6	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		89.1 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.7 %	81.2-123		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		104 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 8-10.0**  
**T180381-04 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 8-10.0**  
**T180381-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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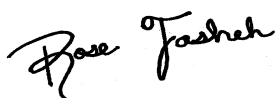
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**Semivolatile Organic Compounds by EPA Method 8270C**

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		63.3 %		15-121	"	"	"	"	
Surrogate: Phenol-d6		73.0 %		24-113	"	"	"	"	
Surrogate: Nitrobenzene-d5		82.2 %		21.3-119	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		77.4 %		32.4-102	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		77.9 %		18.1-105	"	"	"	"	
Surrogate: Terphenyl-d14		114 %		29.1-130	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 8-15.0**  
**T180381-05 (Soil)**

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

**Extractable Petroleum Hydrocarbons by 8015B**

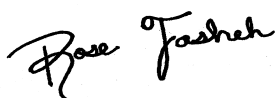
C6-C12 (GRO)	ND	10	mg/kg	1	8020213	02/02/18	02/07/18	EPA 8015B	
<b>C13-C28 (DRO)</b>	<b>46</b>	10	"	"	"	"	"	"	
<b>C29-C40 (MORO)</b>	<b>48</b>	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		86.0 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>5.8</b>	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.8	"	"	"	"	"	"	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, 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: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 8-15.0**  
**T180381-05 (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**

cis-1,2-Dichloroethene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	
Trichloroethene	ND	1.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 15:47

**B- 8-15.0**  
**T180381-05 (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,p-Xylene	ND	3.6	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.6 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.2 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		98.1 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 8-15.0**  
**T180381-05 (Soil)**

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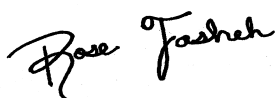
**SunStar Laboratories, Inc.**

**Semivolatile Organic Compounds by EPA Method 8270C**

Bis(2-chloroisopropyl)ether	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 8-15.0**  
**T180381-05 (Soil)**

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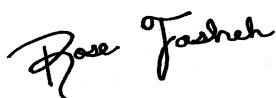
**SunStar Laboratories, Inc.**

**Semivolatile Organic Compounds by EPA Method 8270C**

2-Nitroaniline	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		70.0 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		72.7 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		82.9 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		90.7 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		79.9 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		122 %	29.1-130		"	"	"	"	

SunStar Laboratories, Inc.

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 8-20.0**  
**T180381-06 (Soil)**

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	8020213	02/02/18	02/07/18	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		85.5 %		65-135	"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>140</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>30</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>12</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>15</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>21</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>34</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>49</b>	1.0	"	"	"	"	"	"	

**Cold Vapor Extraction EPA 7470/7471**

Mercury	ND	0.10	mg/kg	1	8020540	02/05/18	02/06/18	EPA 7471A Soil	
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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 15:47

**B- 8-20.0**  
**T180381-06 (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**

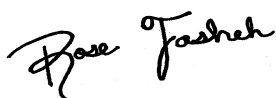
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		64.4 %	35-140		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		61.2 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.8	"	"	"	"	"	"	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 8-20.0**  
**T180381-06 (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**

1,4-Dichlorobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	
Trichloroethene	ND	1.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 8-20.0**  
**T180381-06 (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**

1,2,4-Trimethylbenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
<b>Benzene</b>	<b>3.2</b>	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	ND	3.7	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		89.7 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.8 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		99.4 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 8-20.0**  
**T180381-06 (Soil)**

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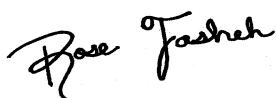
**SunStar Laboratories, Inc.**

**Semivolatile Organic Compounds by EPA Method 8270C**

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 8-20.0**  
**T180381-06 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	66.0 %	15-121	"	"	"	"	"	"
Surrogate: Phenol-d6	72.6 %	24-113	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	78.9 %	21.3-119	"	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	74.5 %	32.4-102	"	"	"	"	"	"
Surrogate: 2,4,6-Tribromophenol	77.0 %	18.1-105	"	"	"	"	"	"
Surrogate: Terphenyl-d14	114 %	29.1-130	"	"	"	"	"	"

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 15:47

**B- 12-1.0**  
**T180381-09 (Soil)**

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

**Extractable Petroleum Hydrocarbons by 8015B**

<b>C6-C12 (GRO)</b>	<b>23</b>	10	mg/kg	1	8020213	02/02/18	02/07/18	EPA 8015B	
<b>C13-C28 (DRO)</b>	<b>260</b>	10	"	"	"	"	"	"	
<b>C29-C40 (MORO)</b>	<b>950</b>	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		69.8 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

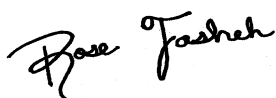
Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>91</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>18</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>9.6</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>11</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>14</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>33</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>34</b>	1.0	"	"	"	"	"	"	

**Cold Vapor Extraction EPA 7470/7471**

Mercury	ND	0.10	mg/kg	1	8020540	02/05/18	02/06/18	EPA 7471A Soil	
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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 12-1.0**  
**T180381-09 (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	500	ug/kg	100	8020134	02/01/18	02/06/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	500	"	"	"	"	"	"	R-07
beta-BHC	ND	500	"	"	"	"	"	"	R-07
delta-BHC	ND	500	"	"	"	"	"	"	R-07
Heptachlor	ND	500	"	"	"	"	"	"	R-07
Aldrin	ND	500	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	500	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	500	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	500	"	"	"	"	"	"	R-07
Endosulfan I	ND	500	"	"	"	"	"	"	R-07
4,4'-DDE	ND	500	"	"	"	"	"	"	R-07
Dieldrin	ND	500	"	"	"	"	"	"	R-07
Endrin	ND	500	"	"	"	"	"	"	R-07
4,4'-DDD	ND	500	"	"	"	"	"	"	R-07
Endosulfan II	ND	500	"	"	"	"	"	"	R-07
4,4'-DDT	ND	500	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	500	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	500	"	"	"	"	"	"	R-07
Methoxychlor	ND	1000	"	"	"	"	"	"	R-07
Endrin ketone	ND	500	"	"	"	"	"	"	R-07
Toxaphene	ND	20000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		%	35-140		"	"	"	"	S-01
Surrogate: Decachlorobiphenyl		%	35-140		"	"	"	"	S-01

**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 12-1.0**  
**T180381-09 (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**

Surrogate: Tetrachloro-meta-xylene	53.8 %	35-140	8020528	02/05/18	02/06/18	EPA 8082
Surrogate: Decachlorobiphenyl	45.2 %	35-140	"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.9	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035
Bromochloromethane	ND	1.9	"	"	"	"	"	"
Bromodichloromethane	ND	1.9	"	"	"	"	"	"
Bromoform	ND	1.9	"	"	"	"	"	"
Bromomethane	ND	1.9	"	"	"	"	"	"
n-Butylbenzene	ND	1.9	"	"	"	"	"	"
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"
Chlorobenzene	ND	1.9	"	"	"	"	"	"
Chloroethane	ND	1.9	"	"	"	"	"	"
Chloroform	ND	1.9	"	"	"	"	"	"
Chloromethane	ND	1.9	"	"	"	"	"	"
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"
Dibromochloromethane	ND	1.9	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	3.8	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.9	"	"	"	"	"	"
Dibromomethane	ND	1.9	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.9	"	"	"	"	"	"
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 15:47

**B- 12-1.0**  
**T180381-09 (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**

1,2-Dichloropropane	ND	1.9	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
Methylene chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
Vinyl chloride	ND	1.9	"	"	"	"	"	"	
Benzene	ND	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.8	"	"	"	"	"	"	
o-Xylene	ND	1.9	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 12-1.0**  
**T180381-09 (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**

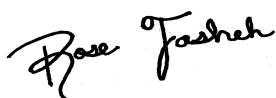
Surrogate: Toluene-d8	83.3 %	85.5-116	8020132	02/01/18	02/06/18	EPA 8260B/5035	S-GC
Surrogate: 4-Bromofluorobenzene	77.7 %	81.2-123	"	"	"	"	S-GC
Surrogate: Dibromofluoromethane	105 %	95.7-135	"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	1500	ug/kg	5	8020535	02/05/18	02/07/18	EPA 8270C	R-07
Aniline	ND	1500	"	"	"	"	"	"	R-07
Phenol	ND	5000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	5000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	1500	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	5000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	1500	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	1500	"	"	"	"	"	"	R-07
Acenaphthene	ND	1500	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	5000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	1500	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	5000	"	"	"	"	"	"	R-07
Pyrene	ND	1500	"	"	"	"	"	"	R-07
Acenaphthylene	ND	1500	"	"	"	"	"	"	R-07
Anthracene	ND	1500	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	1500	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	1500	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	1500	"	"	"	"	"	"	R-07
Benzo (g,h,i) perylene	ND	5000	"	"	"	"	"	"	R-07
Benzo (a) pyrene	ND	1500	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	1500	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	1500	"	"	"	"	"	"	R-07

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 12-1.0**  
**T180381-09 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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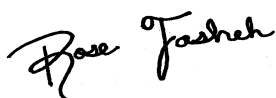
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**Semivolatile Organic Compounds by EPA Method 8270C**

4-Bromophenyl phenyl ether	ND	1500	ug/kg	5	8020535	02/05/18	02/07/18	EPA 8270C	R-07
Butyl benzyl phthalate	ND	1500	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	1500	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	1500	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	1500	"	"	"	"	"	"	R-07
Chrysene	ND	1500	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	1500	"	"	"	"	"	"	R-07
Dibenzofuran	ND	1500	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	1500	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	1500	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	5000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	1500	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	5000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	5000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	5000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	1500	"	"	"	"	"	"	R-07
Fluoranthene	ND	1500	"	"	"	"	"	"	R-07
Fluorene	ND	1500	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	7500	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	1500	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	5000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	1500	"	"	"	"	"	"	R-07
Indeno (1,2,3-cd) pyrene	ND	1500	"	"	"	"	"	"	R-07
Isophorone	ND	1500	"	"	"	"	"	"	R-07
2-Methylphenol	ND	5000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	5000	"	"	"	"	"	"	R-07
Naphthalene	ND	1500	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07

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Project: 3rd & Fairfax  
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Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 12-1.0**  
**T180381-09 (Soil)**

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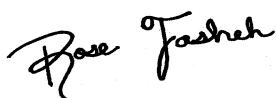
**SunStar Laboratories, Inc.**

**Semivolatile Organic Compounds by EPA Method 8270C**

4-Nitroaniline	ND	1500	ug/kg	5	8020535	02/05/18	02/07/18	EPA 8270C	R-07
Nitrobenzene	ND	5000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	5000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	1500	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	1500	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	1500	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	1500	"	"	"	"	"	"	R-07
Phenanthrene	ND	1500	"	"	"	"	"	"	R-07
Azobenzene	ND	1500	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Pyridine	ND	1500	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol		57.2 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		61.2 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		62.7 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		55.8 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		52.6 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		80.1 %	29.1-130		"	"	"	"	

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Laguna Hills CA, 92653

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 15:47

**B- 12-10.0**  
**T180381-11 (Soil)**

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	8020213	02/02/18	02/07/18	EPA 8015B	
<b>C13-C28 (DRO)</b>	<b>46</b>	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		91.7 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

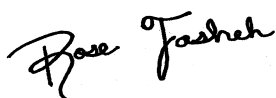
Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>51</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>27</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>4.8</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>4.6</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>9.8</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>22</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>20</b>	1.0	"	"	"	"	"	"	

**Cold Vapor Extraction EPA 7470/7471**

Mercury	ND	0.10	mg/kg	1	8020540	02/05/18	02/06/18	EPA 7471A Soil	
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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 15:47

**B- 12-10.0**  
**T180381-11 (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**

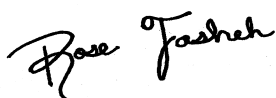
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		57.5 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		57.6 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.4	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
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**B- 12-10.0**  
**T180381-11 (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**

1,4-Dichlorobenzene	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	
Trichloroethene	ND	1.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 12-10.0**  
**T180381-11 (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**

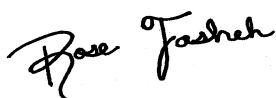
1,2,4-Trimethylbenzene	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Benzene	ND	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.4	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		88.4 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		75.0 %	81.2-123		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		104 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Project Number: 2047.15  
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**B- 12-10.0**  
**T180381-11 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

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02/08/18 15:47

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**T180381-11 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	67.5 %	15-121			"	"	"	"
Surrogate: Phenol-d6	72.4 %	24-113			"	"	"	"
Surrogate: Nitrobenzene-d5	79.2 %	21.3-119			"	"	"	"
Surrogate: 2-Fluorobiphenyl	78.6 %	32.4-102			"	"	"	"
Surrogate: 2,4,6-Tribromophenol	81.4 %	18.1-105			"	"	"	"
Surrogate: Terphenyl-d14	106 %	29.1-130			"	"	"	"

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 12-20.0**  
**T180381-13 (Soil)**

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	8020213	02/02/18	02/08/18	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		86.2 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>81</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>18</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>14</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>13</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>15</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>23</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>30</b>	1.0	"	"	"	"	"	"	

**Cold Vapor Extraction EPA 7470/7471**

Mercury	ND	0.10	mg/kg	1	8020540	02/05/18	02/06/18	EPA 7471A Soil	
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**T180381-13 (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**

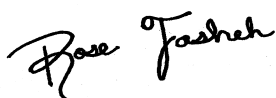
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		76.2 %	35-140		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		66.7 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.8	"	"	"	"	"	"	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	

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Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 12-20.0**  
**T180381-13 (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**

1,4-Dichlorobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	
Trichloroethene	ND	1.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 12-20.0**  
**T180381-13 (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**

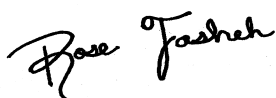
1,2,4-Trimethylbenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	ND	3.6	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		91.8 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.0 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		91.0 %	95.7-135		"	"	"	"	S-GC

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 12-20.0**  
**T180381-13 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 12-20.0**  
**T180381-13 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	69.3 %	15-121	"	"	"	"	"	"
Surrogate: Phenol-d6	75.6 %	24-113	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	80.2 %	21.3-119	"	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	79.7 %	32.4-102	"	"	"	"	"	"
Surrogate: 2,4,6-Tribromophenol	76.3 %	18.1-105	"	"	"	"	"	"
Surrogate: Terphenyl-d14	112 %	29.1-130	"	"	"	"	"	"

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Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 4-1.0**  
**T180381-16 (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	400	ug/kg	1	8020131	02/01/18	02/02/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		35.8 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	210	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	1300	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		88.6 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>84</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>19</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>11</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>10</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>13</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>36</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>46</b>	1.0	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
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Project: 3rd & Fairfax  
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Project Manager: Derrick Willis

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02/08/18 15:47

**B- 4-1.0**  
**T180381-16 (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**

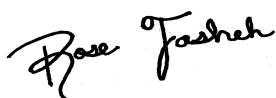
Mercury	ND	0.10	mg/kg	1	8020540	02/05/18	02/06/18	EPA 7471A Soil	
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**Organochlorine Pesticides by EPA Method 8081A**

alpha-BHC	ND	500	ug/kg	100	8020134	02/01/18	02/06/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	500	"	"	"	"	"	"	R-07
beta-BHC	ND	500	"	"	"	"	"	"	R-07
delta-BHC	ND	500	"	"	"	"	"	"	R-07
Heptachlor	ND	500	"	"	"	"	"	"	R-07
Aldrin	ND	500	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	500	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	500	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	500	"	"	"	"	"	"	R-07
Endosulfan I	ND	500	"	"	"	"	"	"	R-07
4,4'-DDE	ND	500	"	"	"	"	"	"	R-07
Dieldrin	ND	500	"	"	"	"	"	"	R-07
Endrin	ND	500	"	"	"	"	"	"	R-07
4,4'-DDD	ND	500	"	"	"	"	"	"	R-07
Endosulfan II	ND	500	"	"	"	"	"	"	R-07
4,4'-DDT	ND	500	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	500	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	500	"	"	"	"	"	"	R-07
Methoxychlor	ND	1000	"	"	"	"	"	"	R-07
Endrin ketone	ND	500	"	"	"	"	"	"	R-07
Toxaphene	ND	20000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		%	35-140		"	"	"	"	S-01
Surrogate: Decachlorobiphenyl		%	35-140		"	"	"	"	S-01

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Project: 3rd & Fairfax  
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Project Manager: Derrick Willis

**Reported:**  
02/08/18 15:47

**B- 4-1.0**  
**T180381-16 (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**

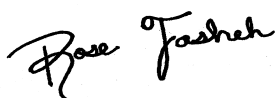
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		70.4 %	35-140		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		56.8 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.9	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	
Chloromethane	ND	1.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.9	"	"	"	"	"	"	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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02/08/18 15:47

**B- 4-1.0**  
**T180381-16 (Soil)**

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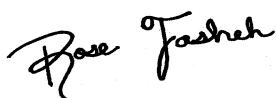
**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,4-Dichlorobenzene	ND	1.9	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
Methylene chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 4-1.0**  
**T180381-16 (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**

1,2,4-Trimethylbenzene	ND	1.9	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Vinyl chloride	ND	1.9	"	"	"	"	"	"	
Benzene	ND	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.8	"	"	"	"	"	"	
o-Xylene	ND	1.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		81.2 %	85.5-116		"	"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene		69.0 %	81.2-123		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		100 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	1500	ug/kg	5	8020535	02/05/18	02/07/18	EPA 8270C	R-07
Aniline	ND	1500	"	"	"	"	"	"	R-07
Phenol	ND	5000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	5000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	1500	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	5000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	1500	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	1500	"	"	"	"	"	"	R-07
Acenaphthene	ND	1500	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	5000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	1500	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	5000	"	"	"	"	"	"	R-07
Pyrene	ND	1500	"	"	"	"	"	"	
Acenaphthylene	ND	1500	"	"	"	"	"	"	R-07
Anthracene	ND	1500	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	1500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	1500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	1500	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 4-1.0**  
**T180381-16 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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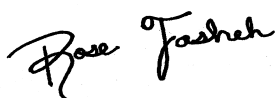
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**Semivolatile Organic Compounds by EPA Method 8270C**

Benzo (g,h,i) perylene	ND	5000	ug/kg	5	8020535	02/05/18	02/07/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	1500	"	"	"	"	"	"	
Benzyl alcohol	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	1500	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	1500	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	1500	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	1500	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	1500	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	1500	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	1500	"	"	"	"	"	"	R-07
Chrysene	ND	1500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	1500	"	"	"	"	"	"	R-07
Dibenzofuran	ND	1500	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	1500	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	1500	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	5000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	1500	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	5000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	5000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	5000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	1500	"	"	"	"	"	"	R-07
Fluoranthene	ND	1500	"	"	"	"	"	"	
Fluorene	ND	1500	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	7500	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	1500	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	5000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	1500	"	"	"	"	"	"	R-07

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 4-1.0**  
**T180381-16 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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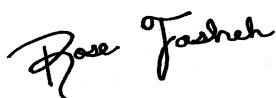
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**Semivolatile Organic Compounds by EPA Method 8270C**

Indeno (1,2,3-cd) pyrene	ND	1500	ug/kg	5	8020535	02/05/18	02/07/18	EPA 8270C	R-07
Isophorone	ND	1500	"	"	"	"	"	"	R-07
2-Methylphenol	ND	5000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	5000	"	"	"	"	"	"	R-07
Naphthalene	ND	1500	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
Nitrobenzene	ND	5000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	5000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	1500	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	1500	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	1500	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	1500	"	"	"	"	"	"	R-07
Phenanthrene	ND	1500	"	"	"	"	"	"	
Azobenzene	ND	1500	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Pyridine	ND	1500	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol		61.7 %		15-121	"	"	"	"	
Surrogate: Phenol-d6		59.4 %		24-113	"	"	"	"	
Surrogate: Nitrobenzene-d5		69.5 %		21.3-119	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		60.5 %		32.4-102	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		54.5 %		18.1-105	"	"	"	"	
Surrogate: Terphenyl-d14		76.9 %		29.1-130	"	"	"	"	

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Rose Fasheh, Project Manager



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Laguna Hills CA, 92653

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 4-10.0**  
**T180381-18 (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	8020131	02/01/18	02/06/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		44.1 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	ND	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		93.9 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>39</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>19</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>9.0</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>7.3</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>15</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>27</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>24</b>	1.0	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 15:47

**B- 4-10.0**  
**T180381-18 (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	8020540	02/05/18	02/06/18	EPA 7471A Soil	
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**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
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

55.6 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

54.0 % 35-140

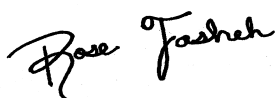
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**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.5	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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**B- 4-10.0**  
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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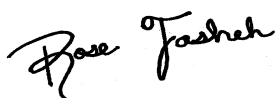
**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dibromoethane (EDB)	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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Project: 3rd & Fairfax  
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Project Manager: Derrick Willis

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**B- 4-10.0**  
**T180381-18 (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**

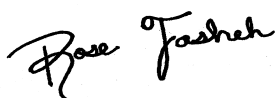
Trichloroethene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
<b>Benzene</b>	<b>3.2</b>	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	ND	3.5	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		87.7 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		75.9 %	81.2-123		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		101 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 4-10.0**  
**T180381-18 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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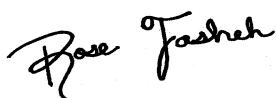
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**Semivolatile Organic Compounds by EPA Method 8270C**

Anthracene	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 4-10.0**  
**T180381-18 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Hexachlorobenzene	ND	1500	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		70.3 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		72.2 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		87.2 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		84.7 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		79.2 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		106 %	29.1-130		"	"	"	"	

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Rose Fasheh, Project Manager





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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 4-15.0**  
**T180381-19 (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	400	ug/kg	1	8020131	02/01/18	02/02/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		38.7 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	1100	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	1000	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		87.0 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	2.2	ug/kg	1	8020132	02/01/18	02/06/18	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	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 4-15.0**  
**T180381-19 (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**

Dichlorodifluoromethane	ND	2.2	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
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	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.2	"	"	"	"	"	"	
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	2.2	"	"	"	"	"	"	
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	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 4-15.0**  
**T180381-19 (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**

Vinyl chloride	ND	2.2	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
<b>Benzene</b>	<b>2.4</b>	2.2	"	"	"	"	"	"	
Toluene	ND	2.2	"	"	"	"	"	"	
Ethylbenzene	ND	2.2	"	"	"	"	"	"	
m,p-Xylene	ND	4.5	"	"	"	"	"	"	
o-Xylene	ND	2.2	"	"	"	"	"	"	
Surrogate: Toluene-d8		81.6 %		85.5-116	"	"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene		68.5 %		81.2-123	"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		109 %		95.7-135	"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 4-20.0**  
**T180381-20 (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	330	ug/kg	1	8020131	02/01/18	02/06/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		48.7 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	31	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	42	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		72.4 %	65-135		"	"	"	"	

**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
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		62.6 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		55.4 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	

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Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 4-20.0**  
**T180381-20 (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**

Chloromethane	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.4	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 4-20.0**  
**T180381-20 (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**

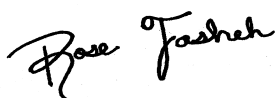
Tetrachloroethene	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	
Trichloroethene	ND	1.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
<b>Benzene</b>	<b>3.3</b>	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.4	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		85.1 %	85.5-116		"	"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene		75.3 %	81.2-123		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		107 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 4-20.0**  
**T180381-20 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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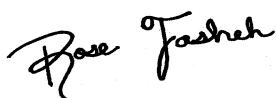
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**Semivolatile Organic Compounds by EPA Method 8270C**

4-Nitrophenol	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	

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**B- 4-20.0**  
**T180381-20 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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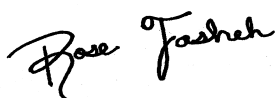
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**Semivolatile Organic Compounds by EPA Method 8270C**

2,4-Dinitrophenol	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		72.6 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		73.2 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		80.5 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		81.3 %	32.4-102		"	"	"	"	

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Rose Fasheh, Project Manager





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Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 4-20.0**  
**T180381-20 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Surrogate: 2,4,6-Tribromophenol	79.3 %	18.1-105	8020535	02/05/18	02/07/18	EPA 8270C
Surrogate: Terphenyl-d14	99.3 %	29.1-130	"	"	"	"

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B-4**  
**T180381-23 (Water)**

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	50	ug/l	1	8020142	02/01/18	02/03/18	EPA 8015B	
Surrogate: 4-Bromofluorobenzene		78.4 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

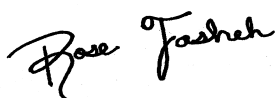
C13-C28 (DRO)	1.7	0.50	mg/l	1	8020233	02/02/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl		75.3 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	8020127	02/01/18	02/01/18	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	5.0	"	"	"	"	"	"	
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	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

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**B-4**  
**T180381-23 (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**

1,2-Dichloroethane	ND	0.50	ug/l	1	8020127	02/01/18	02/01/18	EPA 8260B
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	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
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	"	"	"	"	"	"

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B-4**  
**T180381-23 (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**

Ethylbenzene	ND	0.50	ug/l	1	8020127	02/01/18	02/01/18	EPA 8260B
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		104 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		110 %	81-136		"	"	"	"
Surrogate: Toluene-d8		110 %	88.8-117		"	"	"	"

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 15-1.0**  
**T180381-24 (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	370	ug/kg	1	8020131	02/01/18	02/06/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		31.1 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	490	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	1200	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		69.2 %	65-135		"	"	"	"	

**Organochlorine Pesticides by EPA Method 8081A**

alpha-BHC	ND	500	ug/kg	100	8020134	02/01/18	02/06/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	500	"	"	"	"	"	"	R-07
beta-BHC	ND	500	"	"	"	"	"	"	R-07
delta-BHC	ND	500	"	"	"	"	"	"	R-07
Heptachlor	ND	500	"	"	"	"	"	"	R-07
Aldrin	ND	500	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	500	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	500	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	500	"	"	"	"	"	"	R-07
Endosulfan I	ND	500	"	"	"	"	"	"	R-07
4,4'-DDE	ND	500	"	"	"	"	"	"	R-07
Dieldrin	ND	500	"	"	"	"	"	"	R-07
Endrin	ND	500	"	"	"	"	"	"	R-07
4,4'-DDD	ND	500	"	"	"	"	"	"	R-07
Endosulfan II	ND	500	"	"	"	"	"	"	R-07
4,4'-DDT	ND	500	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	500	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	500	"	"	"	"	"	"	R-07
Methoxychlor	ND	1000	"	"	"	"	"	"	R-07
Endrin ketone	ND	500	"	"	"	"	"	"	R-07
Toxaphene	ND	20000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		%	35-140		"	"	"	"	S-01
Surrogate: Decachlorobiphenyl		%	35-140		"	"	"	"	S-01

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**Reported:**  
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**B- 15-1.0**  
**T180381-24 (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**

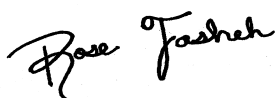
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		52.9 %	35-140		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		46.6 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.8	"	"	"	"	"	"	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 15-1.0**  
**T180381-24 (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**

1,4-Dichlorobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	
Trichloroethene	ND	1.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 15-1.0**  
**T180381-24 (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**

1,2,4-Trimethylbenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	ND	3.7	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		77.6 %	85.5-116		"	"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene		67.2 %	81.2-123		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		99.6 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	1500	ug/kg	5	8020535	02/05/18	02/07/18	EPA 8270C	R-07
Aniline	ND	1500	"	"	"	"	"	"	R-07
Phenol	ND	5000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	5000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	1500	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	5000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	1500	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	1500	"	"	"	"	"	"	R-07
Acenaphthene	ND	1500	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	5000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	1500	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	5000	"	"	"	"	"	"	R-07
Pyrene	ND	1500	"	"	"	"	"	"	R-07
Acenaphthylene	ND	1500	"	"	"	"	"	"	R-07
Anthracene	ND	1500	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	1500	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	1500	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	1500	"	"	"	"	"	"	R-07

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Rose Fasheh, Project Manager



Northgate Environmental Management -- Laguna Hills  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 15-1.0**  
**T180381-24 (Soil)**

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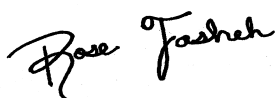
**SunStar Laboratories, Inc.**

**Semivolatile Organic Compounds by EPA Method 8270C**

Benzo (g,h,i) perylene	ND	5000	ug/kg	5	8020535	02/05/18	02/07/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	1500	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	1500	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	1500	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	1500	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	1500	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	1500	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	1500	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	1500	"	"	"	"	"	"	R-07
Chrysene	ND	1500	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	1500	"	"	"	"	"	"	R-07
Dibenzofuran	ND	1500	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	1500	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	1500	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	5000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	1500	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	5000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	5000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	5000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	1500	"	"	"	"	"	"	R-07
Fluoranthene	ND	1500	"	"	"	"	"	"	R-07
Fluorene	ND	1500	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	7500	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	1500	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	5000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	1500	"	"	"	"	"	"	R-07

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 15-1.0**  
**T180381-24 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Indeno (1,2,3-cd) pyrene	ND	1500	ug/kg	5	8020535	02/05/18	02/07/18	EPA 8270C	R-07
Isophorone	ND	1500	"	"	"	"	"	"	R-07
2-Methylphenol	ND	5000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	5000	"	"	"	"	"	"	R-07
Naphthalene	ND	1500	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
Nitrobenzene	ND	5000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	5000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	1500	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	1500	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	1500	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	1500	"	"	"	"	"	"	R-07
Phenanthrene	ND	1500	"	"	"	"	"	"	R-07
Azobenzene	ND	1500	"	"	"	"	"	"	R-07
Pyridine	ND	1500	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	5000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol	58.9 %	15-121			"	"	"	"	
Surrogate: Phenol-d6	57.1 %	24-113			"	"	"	"	
Surrogate: Nitrobenzene-d5	67.7 %	21.3-119			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	61.8 %	32.4-102			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	63.1 %	18.1-105			"	"	"	"	
Surrogate: Terphenyl-d14	61.5 %	29.1-130			"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 15:47

**B- 15-10.0**  
**T180381-26 (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	430	ug/kg	1	8020131	02/01/18	02/02/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		38.8 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	47	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		86.5 %	65-135		"	"	"	"	

**Polychlorinated Biphenyls by EPA Method 8082**

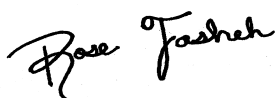
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		51.5 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		50.7 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.9	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 15-10.0**  
**T180381-26 (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**

Chloromethane	ND	1.9	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.9	"	"	"	"	"	"	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
Methylene chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 15:47

**B- 15-10.0**  
**T180381-26 (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**

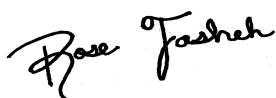
Tetrachloroethene	ND	1.9	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
Vinyl chloride	ND	1.9	"	"	"	"	"	"	
<b>Benzene</b>	<b>2.1</b>	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.8	"	"	"	"	"	"	
o-Xylene	ND	1.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		80.4 %	85.5-116		"	"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene		69.4 %	81.2-123		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		101 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 15-10.0**  
**T180381-26 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

4-Nitrophenol	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 15-10.0**  
**T180381-26 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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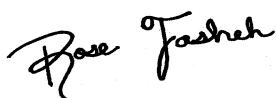
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**Semivolatile Organic Compounds by EPA Method 8270C**

2,4-Dinitrophenol	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol	66.0 %	15-121	"	"	"	"	"	"	
Surrogate: Phenol-d6	70.1 %	24-113	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5	78.2 %	21.3-119	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	79.7 %	32.4-102	"	"	"	"	"	"	

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Project Manager: Derrick Willis

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**B- 15-10.0**  
**T180381-26 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Surrogate: 2,4,6-Tribromophenol	83.6 %	18.1-105	8020535	02/05/18	02/07/18	EPA 8270C
Surrogate: Terphenyl-d14	98.6 %	29.1-130	"	"	"	"

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**Reported:**  
02/08/18 15:47

**B- 15-20.0**  
**T180381-28 (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	360	ug/kg	1	8020131	02/01/18	02/06/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		67.3 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	ND	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		92.6 %	65-135		"	"	"	"	

**Polychlorinated Biphenyls by EPA Method 8082**

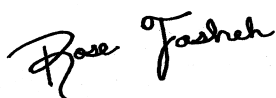
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/07/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		70.6 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		62.1 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	2.6	ug/kg	1	8020132	02/01/18	02/07/18	EPA 8260B/5035	
Bromochloromethane	ND	2.6	"	"	"	"	"	"	
Bromodichloromethane	ND	2.6	"	"	"	"	"	"	
Bromoform	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	2.6	"	"	"	"	"	"	
n-Butylbenzene	ND	2.6	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.6	"	"	"	"	"	"	
Chlorobenzene	ND	2.6	"	"	"	"	"	"	
Chloroethane	ND	2.6	"	"	"	"	"	"	
Chloroform	ND	2.6	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 15-20.0**  
**T180381-28 (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**

Chloromethane	ND	2.6	ug/kg	1	8020132	02/01/18	02/07/18	EPA 8260B/5035	
2-Chlorotoluene	ND	2.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.6	"	"	"	"	"	"	
Dibromochloromethane	ND	2.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.2	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.6	"	"	"	"	"	"	
Dibromomethane	ND	2.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.6	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.6	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.6	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.6	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.6	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.6	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.6	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.6	"	"	"	"	"	"	
Isopropylbenzene	ND	2.6	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.6	"	"	"	"	"	"	
Methylene chloride	ND	2.6	"	"	"	"	"	"	
Naphthalene	ND	2.6	"	"	"	"	"	"	
n-Propylbenzene	ND	2.6	"	"	"	"	"	"	
Styrene	ND	2.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.6	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.6	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
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Project: 3rd & Fairfax  
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Project Manager: Derrick Willis

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02/08/18 15:47

**B- 15-20.0**  
**T180381-28 (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**

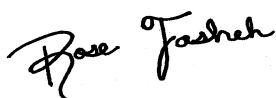
Tetrachloroethene	ND	2.6	ug/kg	1	8020132	02/01/18	02/07/18	EPA 8260B/5035	
1,2,3-Trichlorobenzene	ND	2.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.6	"	"	"	"	"	"	
Trichloroethene	ND	2.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.6	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Benzene	ND	2.6	"	"	"	"	"	"	
Toluene	ND	2.6	"	"	"	"	"	"	
Ethylbenzene	ND	2.6	"	"	"	"	"	"	
m,p-Xylene	ND	5.2	"	"	"	"	"	"	
o-Xylene	ND	2.6	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.7 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.2 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		82.2 %	95.7-135		"	"	"	"	S-GC

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
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Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 15-20.0**  
**T180381-28 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

4-Nitrophenol	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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Project: 3rd & Fairfax  
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Project Manager: Derrick Willis

Reported:  
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**B- 15-20.0**  
**T180381-28 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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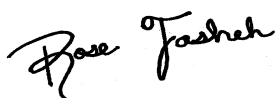
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**Semivolatile Organic Compounds by EPA Method 8270C**

2,4-Dinitrophenol	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol	54.9 %	15-121	"	"	"	"	"	"	
Surrogate: Phenol-d6	60.4 %	24-113	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5	67.5 %	21.3-119	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	65.1 %	32.4-102	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 15-20.0**  
**T180381-28 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Surrogate: 2,4,6-Tribromophenol	72.9 %	18.1-105	8020535	02/05/18	02/07/18	EPA 8270C
Surrogate: Terphenyl-d14	110 %	29.1-130	"	"	"	"

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Reported:  
02/08/18 15:47

**B- 10-1.0**  
**T180381-32 (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	370	ug/kg	1	8020131	02/01/18	02/06/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		30.8 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	ND	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	63	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		74.3 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	86	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	19	2.0	"	"	"	"	"	"	
Cobalt	10	2.0	"	"	"	"	"	"	
Copper	9.6	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	12	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	39	5.0	"	"	"	"	"	"	
Zinc	54	1.0	"	"	"	"	"	"	

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**B- 10-1.0**  
**T180381-32 (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	8020540	02/05/18	02/06/18	EPA 7471A Soil	
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**Organochlorine Pesticides by EPA Method 8081A**

alpha-BHC	ND	50	ug/kg	10	8020134	02/01/18	02/06/18	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	"	"	"	"	"	"	
alpha-Chlordane	ND	50	"	"	"	"	"	"	
Endosulfan I	ND	50	"	"	"	"	"	"	R-07
4,4'-DDE	ND	50	"	"	"	"	"	"	R-07
Dieldrin	ND	50	"	"	"	"	"	"	
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	100	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	2000	"	"	"	"	"	"	R-07

Surrogate: Tetrachloro-meta-xylene

81.6 % 35-140

" " " "

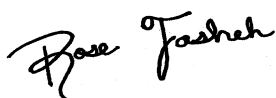
Surrogate: Decachlorobiphenyl

108 % 35-140

" " " "

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Rose Fasheh, Project Manager



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**Reported:**  
02/08/18 15:47

**B- 10-1.0**  
**T180381-32 (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**

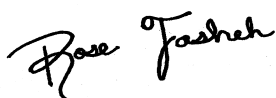
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/07/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		68.5 %	35-140		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		55.0 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.9	ug/kg	1	8020132	02/01/18	02/07/18	EPA 8260B/5035	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	
Chloromethane	ND	1.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.9	"	"	"	"	"	"	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	

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Reported:  
02/08/18 15:47

**B- 10-1.0**  
**T180381-32 (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**

1,4-Dichlorobenzene	ND	1.9	ug/kg	1	8020132	02/01/18	02/07/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
Methylene chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	

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**B- 10-1.0**  
**T180381-32 (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**

1,2,4-Trimethylbenzene	ND	1.9	ug/kg	1	8020132	02/01/18	02/07/18	EPA 8260B/5035	
Vinyl chloride	ND	1.9	"	"	"	"	"	"	
Benzene	ND	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.8	"	"	"	"	"	"	
o-Xylene	ND	1.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		84.0 %		85.5-116	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		68.0 %		81.2-123	"	"	"	"	S-04
Surrogate: Dibromofluoromethane		94.4 %		95.7-135	"	"	"	"	S-04

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02/08/18 15:47

**B- 10-10.0**  
**T180381-34 (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	420	ug/kg	1	8020131	02/01/18	02/02/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		32.6 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	ND	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		88.9 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>180</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>18</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>11</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>6.4</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>10</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>41</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>56</b>	1.0	"	"	"	"	"	"	

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**Reported:**  
02/08/18 15:47

**B- 10-10.0**  
**T180381-34 (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	8020540	02/05/18	02/06/18	EPA 7471A Soil	
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**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/07/18	EPA 8082	
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

69.9 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

66.7 % 35-140

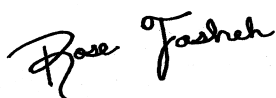
" " " "

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.4	"	"	"	"	"	"	

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02/08/18 15:47

**B- 10-10.0**  
**T180381-34 (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**

1,2-Dibromoethane (EDB)	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 10-10.0**  
**T180381-34 (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**

Trichloroethene	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
<b>Benzene</b>	<b>1.7</b>	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.4	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		88.1 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.1 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		98.2 %	95.7-135		"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 10-20.0**  
**T180381-36 (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	8020131	02/01/18	02/06/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		79.6 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015B**

C13-C28 (DRO)	25	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	11	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		69.0 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>35</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>11</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.6</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>7.5</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>9.7</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>18</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>21</b>	1.0	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 15:47

**B- 10-20.0**  
**T180381-36 (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	8020540	02/05/18	02/06/18	EPA 7471A Soil	
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**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/07/18	EPA 8082	
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

65.3 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

62.2 % 35-140

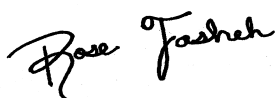
" " " "

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.5	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 10-20.0**  
**T180381-36 (Soil)**

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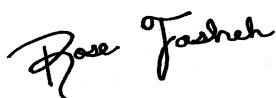
**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

1,2-Dibromoethane (EDB)	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**B- 10-20.0**  
**T180381-36 (Soil)**

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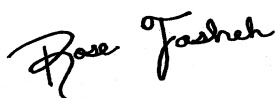
**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Trichloroethene	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
<b>Benzene</b>	<b>1.9</b>	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.5	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		76.8 %		85.5-116	"	"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene		60.4 %		81.2-123	"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		101 %		95.7-135	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

### 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 8020131 - EPA 5035 GC

##### Blank (8020131-BLK1)

Prepared & Analyzed: 02/01/18

C6-C12 (GRO)	ND	400	ug/kg							
Surrogate: 4-Bromofluorobenzene	98.8		"	100		98.8	65-135			

##### LCS (8020131-BS1)

Prepared & Analyzed: 02/01/18

C6-C12 (GRO)	2110	400	ug/kg	1980		106	75-125			
Surrogate: 4-Bromofluorobenzene	127		"	100		127	65-135			

##### LCS Dup (8020131-BSD1)

Prepared & Analyzed: 02/01/18

C6-C12 (GRO)	2020	400	ug/kg	2000		101	75-125	4.41	20	
Surrogate: 4-Bromofluorobenzene	116		"	100		116	65-135			

#### Batch 8020142 - EPA 5030 GC

##### Blank (8020142-BLK1)

Prepared: 02/01/18 Analyzed: 02/03/18

C6-C12 (GRO)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	76.8		"	100		76.8	65-135			

##### LCS (8020142-BS1)

Prepared: 02/01/18 Analyzed: 02/05/18

C6-C12 (GRO)	1090	50	ug/l	1000		109	75-125			
Surrogate: 4-Bromofluorobenzene	115		"	100		115	65-135			

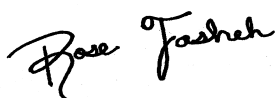
##### LCS Dup (8020142-BSD1)

Prepared: 02/01/18 Analyzed: 02/05/18

C6-C12 (GRO)	1020	50	ug/l	1000		102	75-125	7.35	20	
Surrogate: 4-Bromofluorobenzene	116		"	100		116	65-135			

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

### 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 8020213 - EPA 3550B GC

##### Blank (8020213-BLK1)

Prepared: 02/02/18 Analyzed: 02/07/18

C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	87.5		"	100		87.5	65-135			
Surrogate: <i>p</i> -Terphenyl	87.5		"	100		87.5	65-135			

##### LCS (8020213-BS1)

Prepared: 02/02/18 Analyzed: 02/07/18

C13-C28 (DRO)	500	10	mg/kg	500		100	75-125			
C13-C28 (DRO)	500	10	"	500		100	75-125			
Surrogate: <i>p</i> -Terphenyl	83.3		"	100		83.3	65-135			
Surrogate: <i>p</i> -Terphenyl	83.3		"	100		83.3	65-135			

##### LCS Dup (8020213-BS1)

Prepared: 02/02/18 Analyzed: 02/07/18

C13-C28 (DRO)	490	10	mg/kg	500		98.2	75-125	2.25	20	
C13-C28 (DRO)	490	10	"	500		98.2	75-125	2.25	20	
Surrogate: <i>p</i> -Terphenyl	87.1		"	100		87.1	65-135			
Surrogate: <i>p</i> -Terphenyl	87.1		"	100		87.1	65-135			

#### Batch 8020233 - EPA 3510C GC

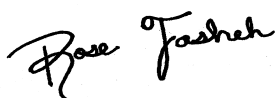
##### Blank (8020233-BLK1)

Prepared: 02/02/18 Analyzed: 02/07/18

C13-C28 (DRO)	ND	0.50	mg/l							
C29-C40 (MORO)	ND	0.50	"							
Surrogate: <i>p</i> -Terphenyl	3.02		"	4.00		75.6	65-135			

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

### 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 8020233 - EPA 3510C GC

##### LCS (8020233-BS1)

Prepared: 02/02/18 Analyzed: 02/07/18

C13-C28 (DRO)	16.0	0.50	mg/l	20.0		80.2	75-125			
Surrogate: <i>p</i> -Terphenyl	2.69		"	4.00		67.3	65-135			

##### LCS Dup (8020233-BSD1)

Prepared: 02/02/18 Analyzed: 02/07/18

C13-C28 (DRO)	16.8	0.50	mg/l	20.0		84.2	75-125	4.92	20	
Surrogate: <i>p</i> -Terphenyl	2.62		"	4.00		65.6	65-135			

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

### 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 8020541 - EPA 3050B

##### Blank (8020541-BLK1)

Prepared: 02/05/18 Analyzed: 02/06/18

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	2.0	"
Vanadium	ND	5.0	"
Zinc	ND	1.0	"

##### LCS (8020541-BS1)

Prepared: 02/05/18 Analyzed: 02/06/18

Arsenic	115	5.0	mg/kg	100	115	75-125
Barium	112	1.0	"	100	112	75-125
Cadmium	109	2.0	"	100	109	75-125
Chromium	111	2.0	"	100	111	75-125
Lead	117	3.0	"	100	117	75-125

##### Matrix Spike (8020541-MS1)

Source: T180381-09

Prepared: 02/05/18 Analyzed: 02/06/18

Arsenic	91.9	5.0	mg/kg	97.1	0.838	93.8	75-125
Barium	202	1.0	"	97.1	91.1	114	75-125
Cadmium	91.1	2.0	"	97.1	0.825	92.9	75-125
Chromium	114	2.0	"	97.1	17.9	98.6	75-125
Lead	101	3.0	"	97.1	ND	104	75-125

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Rose Fasheh, Project Manager



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### 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 8020541 - EPA 3050B

##### Matrix Spike Dup (8020541-MSD1)

Source: T180381-09

Prepared: 02/05/18 Analyzed: 02/06/18

Arsenic	88.6	5.0	mg/kg	100	0.838	87.8	75-125	3.67	20	
Barium	196	1.0	"	100	91.1	105	75-125	2.93	20	
Cadmium	90.7	2.0	"	100	0.825	89.9	75-125	0.371	20	
Chromium	114	2.0	"	100	17.9	95.9	75-125	0.129	20	
Lead	96.4	3.0	"	100	ND	96.4	75-125	4.78	20	

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### 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 8020540 - EPA 7471A Soil

##### Blank (8020540-BLK1)

Prepared: 02/05/18 Analyzed: 02/06/18

Mercury	ND	0.10	mg/kg
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##### LCS (8020540-BS1)

Prepared: 02/05/18 Analyzed: 02/06/18

Mercury	0.350	0.10	mg/kg	0.385	91.1	80-120
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##### Matrix Spike (8020540-MS1)

Source: T180381-09

Prepared: 02/05/18 Analyzed: 02/06/18

Mercury	0.387	0.10	mg/kg	0.417	ND	92.8	75-125
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##### Matrix Spike Dup (8020540-MSD1)

Source: T180381-09

Prepared: 02/05/18 Analyzed: 02/06/18

Mercury	0.379	0.10	mg/kg	0.410	ND	92.5	75-125	2.05	20
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Reported:  
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### 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 8020134 - EPA 3550 ECD/GCMS

##### Blank (8020134-BLK1)

Prepared: 02/01/18 Analyzed: 02/05/18

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	10	"
Endrin ketone	ND	5.0	"
Toxaphene	ND	200	"

Surrogate: Tetrachloro-meta-xylene

8.92 " 10.0 89.2 35-140

Surrogate: Decachlorobiphenyl

8.62 " 10.0 86.2 35-140

##### LCS (8020134-BS1)

Prepared: 02/01/18 Analyzed: 02/05/18

gamma-BHC (Lindane)	34.2	5.0	ug/kg	40.0	85.5	40-120
Heptachlor	34.1	5.0	"	40.0	85.2	40-120
Aldrin	32.0	5.0	"	40.0	80.0	40-120
Dieldrin	32.6	5.0	"	40.0	81.5	40-120
Endrin	32.7	5.0	"	40.0	81.9	40-120
4,4'-DDT	30.7	5.0	"	40.0	76.8	33-147

Surrogate: Tetrachloro-meta-xylene

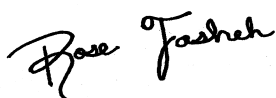
8.47 " 10.0 84.7 35-140

Surrogate: Decachlorobiphenyl

8.36 " 10.0 83.6 35-140

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### 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 8020134 - EPA 3550 ECD/GCMS

##### LCS Dup (8020134-BSD1)

Prepared: 02/01/18 Analyzed: 02/05/18

gamma-BHC (Lindane)	32.4	5.0	ug/kg	40.0		81.1	40-120	5.30	30	
Heptachlor	32.6	5.0	"	40.0		81.5	40-120	4.51	30	
Aldrin	30.6	5.0	"	40.0		76.4	40-120	4.58	30	
Dieldrin	31.1	5.0	"	40.0		77.7	40-120	4.85	30	
Endrin	31.1	5.0	"	40.0		77.8	40-120	5.11	30	
4,4'-DDT	28.6	5.0	"	40.0		71.5	33-147	7.13	30	
Surrogate: Tetrachloro-meta-xylene	8.06		"	10.0		80.6	35-140			
Surrogate: Decachlorobiphenyl	8.56		"	10.0		85.6	35-140			

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**Polychlorinated Biphenyls by EPA Method 8082 - 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 8020528 - EPA 3550 ECD/GCMS**

**Blank (8020528-BLK1)**

Prepared: 02/05/18 Analyzed: 02/06/18

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	5.93		"	9.80		60.5	35-140			
Surrogate: Decachlorobiphenyl	6.49		"	9.80		66.2	35-140			

**LCS (8020528-BS1)**

Prepared: 02/05/18 Analyzed: 02/06/18

PCB-1016	58.3	10	ug/kg	99.0		58.9	40-130			
PCB-1260	65.4	10	"	99.0		66.1	40-130			
Surrogate: Tetrachloro-meta-xylene	6.25		"	9.90		63.1	35-140			
Surrogate: Decachlorobiphenyl	6.75		"	9.90		68.1	35-140			

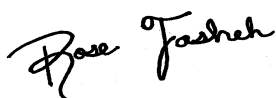
**LCS Dup (8020528-BSD1)**

Prepared: 02/05/18 Analyzed: 02/06/18

PCB-1016	63.1	10	ug/kg	99.0		63.7	40-130	7.83	30	
PCB-1260	68.4	10	"	99.0		69.1	40-130	4.44	30	
Surrogate: Tetrachloro-meta-xylene	6.80		"	9.90		68.7	35-140			
Surrogate: Decachlorobiphenyl	7.06		"	9.90		71.3	35-140			

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

### 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 8020127 - EPA 5030 GCMS

##### Blank (8020127-BLK1)

Prepared & Analyzed: 02/01/18

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	5.0	"
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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### 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 8020127 - EPA 5030 GCMS

##### Blank (8020127-BLK1)

Prepared & Analyzed: 02/01/18

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
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	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate: 4-Bromofluorobenzene	19.3		"	20.0		96.4	83.5-119			
Surrogate: Dibromofluoromethane	21.2		"	20.0		106	81-136			
Surrogate: Toluene-d8	21.8		"	20.0		109	88.8-117			

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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 8020127 - EPA 5030 GCMS

##### LCS (8020127-BS1)

Prepared & Analyzed: 02/01/18

Chlorobenzene	21.5	1.0	ug/l	20.0		108	75-125			
1,1-Dichloroethene	21.2	1.0	"	20.0		106	75-125			
Trichloroethene	20.0	1.0	"	20.0		100	75-125			
Benzene	21.8	0.50	"	20.0		109	75-125			
Toluene	21.8	0.50	"	20.0		109	75-125			
Surrogate: 4-Bromofluorobenzene	22.2		"	20.0		111	83.5-119			
Surrogate: Dibromofluoromethane	21.2		"	20.0		106	81-136			
Surrogate: Toluene-d8	21.6		"	20.0		108	88.8-117			

##### LCS Dup (8020127-BSD1)

Prepared & Analyzed: 02/01/18

Chlorobenzene	21.2	1.0	ug/l	20.0		106	75-125	1.83	20	
1,1-Dichloroethene	21.3	1.0	"	20.0		106	75-125	0.235	20	
Trichloroethene	20.2	1.0	"	20.0		101	75-125	1.24	20	
Benzene	22.3	0.50	"	20.0		111	75-125	2.13	20	
Toluene	21.8	0.50	"	20.0		109	75-125	0.0458	20	
Surrogate: 4-Bromofluorobenzene	21.8		"	20.0		109	83.5-119			
Surrogate: Dibromofluoromethane	20.9		"	20.0		105	81-136			
Surrogate: Toluene-d8	21.3		"	20.0		106	88.8-117			

#### Batch 8020132 - EPA 5035 GCMS

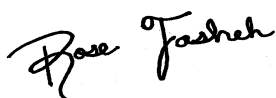
##### Blank (8020132-BLK1)

Prepared: 02/01/18 Analyzed: 02/05/18

Bromobenzene	ND	2.0	ug/kg							
Bromochloromethane	ND	2.0	"							
Bromodichloromethane	ND	2.0	"							
Bromoform	ND	2.0	"							
Bromomethane	ND	2.0	"							
n-Butylbenzene	ND	2.0	"							
sec-Butylbenzene	ND	2.0	"							
tert-Butylbenzene	ND	2.0	"							
Carbon tetrachloride	ND	2.0	"							
Chlorobenzene	ND	2.0	"							
Chloroethane	ND	2.0	"							
Chloroform	ND	2.0	"							
Chloromethane	ND	2.0	"							
2-Chlorotoluene	ND	2.0	"							

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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 8020132 - EPA 5035 GCMS

##### Blank (8020132-BLK1)

Prepared: 02/01/18 Analyzed: 02/05/18

4-Chlorotoluene	ND	2.0	ug/kg
Dibromochloromethane	ND	2.0	"
1,2-Dibromo-3-chloropropane	ND	4.0	"
1,2-Dibromoethane (EDB)	ND	2.0	"
Dibromomethane	ND	2.0	"
1,2-Dichlorobenzene	ND	2.0	"
1,3-Dichlorobenzene	ND	2.0	"
1,4-Dichlorobenzene	ND	2.0	"
Dichlorodifluoromethane	ND	2.0	"
1,1-Dichloroethane	ND	2.0	"
1,2-Dichloroethane	ND	2.0	"
1,1-Dichloroethene	ND	2.0	"
cis-1,2-Dichloroethene	ND	2.0	"
trans-1,2-Dichloroethene	ND	2.0	"
1,2-Dichloropropane	ND	2.0	"
1,3-Dichloropropane	ND	2.0	"
2,2-Dichloropropane	ND	2.0	"
1,1-Dichloropropene	ND	2.0	"
cis-1,3-Dichloropropene	ND	2.0	"
trans-1,3-Dichloropropene	ND	2.0	"
Hexachlorobutadiene	ND	2.0	"
Isopropylbenzene	ND	2.0	"
p-Isopropyltoluene	ND	2.0	"
Methylene chloride	ND	2.0	"
Naphthalene	ND	2.0	"
n-Propylbenzene	ND	2.0	"
Styrene	ND	2.0	"
1,1,2,2-Tetrachloroethane	ND	2.0	"
1,1,1,2-Tetrachloroethane	ND	2.0	"
Tetrachloroethene	ND	2.0	"
1,2,3-Trichlorobenzene	ND	2.0	"
1,2,4-Trichlorobenzene	ND	2.0	"
1,1,2-Trichloroethane	ND	2.0	"
1,1,1-Trichloroethane	ND	2.0	"
Trichloroethene	ND	2.0	"
Trichlorofluoromethane	ND	2.0	"

SunStar Laboratories, Inc.

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Rose Fasheh, 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: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

### 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 8020132 - EPA 5035 GCMS

##### Blank (8020132-BLK1)

Prepared: 02/01/18 Analyzed: 02/05/18

1,2,3-Trichloropropane	ND	2.0	ug/kg							
1,3,5-Trimethylbenzene	ND	2.0	"							
1,2,4-Trimethylbenzene	ND	2.0	"							
Vinyl chloride	ND	2.0	"							
Benzene	ND	2.0	"							
Toluene	ND	2.0	"							
Ethylbenzene	ND	2.0	"							
m,p-Xylene	ND	4.0	"							
o-Xylene	ND	2.0	"							
Surrogate: Toluene-d8	37.7		"	39.7		95.0	85.5-116			
Surrogate: 4-Bromofluorobenzene	38.2		"	39.7		96.3	81.2-123			
Surrogate: Dibromofluoromethane	47.7		"	39.7		120	95.7-135			

##### LCS (8020132-BS1)

Prepared: 02/01/18 Analyzed: 02/06/18

Chlorobenzene	38.6	2.0	ug/kg	39.8		97.0	75-125			
1,1-Dichloroethene	46.2	2.0	"	39.8		116	75-125			
Trichloroethene	37.7	2.0	"	39.8		94.8	75-125			
Benzene	44.8	2.0	"	39.8		113	75-125			
Toluene	36.8	2.0	"	39.8		92.5	75-125			
Surrogate: Toluene-d8	36.5		"	39.8		91.8	85.5-116			
Surrogate: 4-Bromofluorobenzene	38.2		"	39.8		95.9	81.2-123			
Surrogate: Dibromofluoromethane	46.4		"	39.8		117	95.7-135			

##### LCS Dup (8020132-BSD1)

Prepared: 02/01/18 Analyzed: 02/06/18

Chlorobenzene	39.5	2.0	ug/kg	39.7		99.6	75-125	2.45	20	
1,1-Dichloroethene	46.7	2.0	"	39.7		118	75-125	1.21	20	
Trichloroethene	38.6	2.0	"	39.7		97.2	75-125	2.35	20	
Benzene	46.3	2.0	"	39.7		117	75-125	3.20	20	
Toluene	38.5	2.0	"	39.7		97.1	75-125	4.60	20	
Surrogate: Toluene-d8	35.5		"	39.7		89.4	85.5-116			
Surrogate: 4-Bromofluorobenzene	34.7		"	39.7		87.4	81.2-123			
Surrogate: Dibromofluoromethane	50.4		"	39.7		127	95.7-135			

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

### Semivolatile Organic Compounds by EPA Method 8270C - 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 8020535 - EPA 3550 ECD/GCMS

Blank (8020535-BLK1)

Prepared: 02/05/18 Analyzed: 02/06/18

Carbazole	ND	300	ug/kg
Aniline	ND	300	"
Phenol	ND	1000	"
2-Chlorophenol	ND	1000	"
1,4-Dichlorobenzene	ND	300	"
N-Nitrosodi-n-propylamine	ND	300	"
1,2,4-Trichlorobenzene	ND	300	"
4-Chloro-3-methylphenol	ND	1000	"
1-Methylnaphthalene	ND	300	"
2-Methylnaphthalene	ND	300	"
Acenaphthene	ND	300	"
4-Nitrophenol	ND	1000	"
2,4-Dinitrotoluene	ND	300	"
Pentachlorophenol	ND	1000	"
Pyrene	ND	300	"
Acenaphthylene	ND	300	"
Anthracene	ND	300	"
Benzo (a) anthracene	ND	300	"
Benzo (b) fluoranthene	ND	300	"
Benzo (k) fluoranthene	ND	300	"
Benzo (g,h,i) perylene	ND	1000	"
Benzo (a) pyrene	ND	300	"
Benzyl alcohol	ND	300	"
Bis(2-chloroethoxy)methane	ND	300	"
Bis(2-chloroethyl)ether	ND	300	"
Bis(2-chloroisopropyl)ether	ND	300	"
Bis(2-ethylhexyl)phthalate	ND	300	"
4-Bromophenyl phenyl ether	ND	300	"
Butyl benzyl phthalate	ND	300	"
4-Chloroaniline	ND	300	"
2-Chloronaphthalene	ND	300	"
4-Chlorophenyl phenyl ether	ND	300	"
Chrysene	ND	300	"
Dibenz (a,h) anthracene	ND	300	"
Dibenzofuran	ND	300	"
Di-n-butyl phthalate	ND	300	"

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.

Rose Fasheh, Project Manager



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Lake Forest, California 92630  
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Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
Laguna Hills CA, 92653

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

### Semivolatile Organic Compounds by EPA Method 8270C - 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 8020535 - EPA 3550 ECD/GCMS

##### Blank (8020535-BLK1)

Prepared: 02/05/18 Analyzed: 02/06/18

1,2-Dichlorobenzene	ND	300	ug/kg
1,3-Dichlorobenzene	ND	300	"
2,4-Dichlorophenol	ND	1000	"
Diethyl phthalate	ND	300	"
2,4-Dimethylphenol	ND	1000	"
Dimethyl phthalate	ND	300	"
4,6-Dinitro-2-methylphenol	ND	1000	"
2,4-Dinitrophenol	ND	1000	"
2,6-Dinitrotoluene	ND	1000	"
Di-n-octyl phthalate	ND	300	"
Fluoranthene	ND	300	"
Fluorene	ND	300	"
Hexachlorobenzene	ND	1500	"
Hexachlorobutadiene	ND	300	"
Hexachlorocyclopentadiene	ND	1000	"
Hexachloroethane	ND	300	"
Indeno (1,2,3-cd) pyrene	ND	300	"
Isophorone	ND	300	"
2-Methylphenol	ND	1000	"
4-Methylphenol	ND	1000	"
Naphthalene	ND	300	"
2-Nitroaniline	ND	300	"
3-Nitroaniline	ND	300	"
4-Nitroaniline	ND	300	"
Nitrobenzene	ND	1000	"
2-Nitrophenol	ND	1000	"
N-Nitrosodimethylamine	ND	300	"
N-Nitrosodiphenylamine	ND	300	"
2,3,5,6-Tetrachlorophenol	ND	300	"
2,3,4,6-Tetrachlorophenol	ND	300	"
Phenanthrene	ND	300	"
Azobenzene	ND	300	"
Pyridine	ND	300	"
2,4,5-Trichlorophenol	ND	1000	"
2,4,6-Trichlorophenol	ND	1000	"

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

### Semivolatile Organic Compounds by EPA Method 8270C - 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 8020535 - EPA 3550 ECD/GCMS

##### Blank (8020535-BLK1)

Prepared: 02/05/18 Analyzed: 02/06/18

Surrogate: 2-Fluorophenol	2140		ug/kg	3270		65.4	15-121			
Surrogate: Phenol-d6	2310		"	3270		70.6	24-113			
Surrogate: Nitrobenzene-d5	2820		"	3270		86.3	21.3-119			
Surrogate: 2-Fluorobiphenyl	2480		"	3270		75.8	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2220		"	3270		68.0	18.1-105			
Surrogate: Terphenyl-d14	3370		"	3270		103	29.1-130			

##### LCS (8020535-BS1)

Prepared: 02/05/18 Analyzed: 02/06/18

Phenol	2000	1000	ug/kg	3300		60.7	34-114			
2-Chlorophenol	1950	1000	"	3300		59.0	34-114			
1,4-Dichlorobenzene	1980	300	"	3300		60.1	34-114			
N-Nitrosodi-n-propylamine	2840	300	"	3300		85.9	30-110			
1,2,4-Trichlorobenzene	2040	300	"	3300		61.7	39-119			
4-Chloro-3-methylphenol	2550	1000	"	3300		77.2	50-130			
Acenaphthene	2360	300	"	3300		71.5	34-114			
Pentachlorophenol	2160	1000	"	3300		65.4	50-130			
Pyrene	2090	300	"	3300		63.4	30-110			
Surrogate: 2-Fluorophenol	1930		"	3300		58.5	15-121			
Surrogate: Phenol-d6	2150		"	3300		65.1	24-113			
Surrogate: Nitrobenzene-d5	2580		"	3300		78.1	21.3-119			
Surrogate: 2-Fluorobiphenyl	2350		"	3300		71.1	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2300		"	3300		69.7	18.1-105			
Surrogate: Terphenyl-d14	3560		"	3300		108	29.1-130			

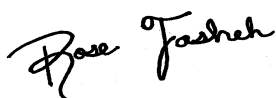
##### LCS Dup (8020535-BSD1)

Prepared: 02/05/18 Analyzed: 02/06/18

Phenol	2030	1000	ug/kg	3270		62.0	34-114	1.13	42	
2-Chlorophenol	1960	1000	"	3270		60.0	34-114	0.745	40	
1,4-Dichlorobenzene	1980	300	"	3270		60.5	34-114	0.405	28	
N-Nitrosodi-n-propylamine	2940	300	"	3270		90.1	30-110	3.76	38	
1,2,4-Trichlorobenzene	2080	300	"	3270		63.5	39-119	1.87	28	
4-Chloro-3-methylphenol	2710	1000	"	3270		82.8	50-130	6.03	42	
Acenaphthene	2450	300	"	3270		74.9	34-114	3.66	31	
Pentachlorophenol	2080	1000	"	3270		63.5	50-130	3.93	50	
Pyrene	1970	300	"	3270		60.3	30-110	5.91	31	
Surrogate: 2-Fluorophenol	1880		"	3270		57.7	15-121			
Surrogate: Phenol-d6	2160		"	3270		66.1	24-113			

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 15:47

**Semivolatile Organic Compounds by EPA Method 8270C - 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 8020535 - EPA 3550 ECD/GCMS**

**LCS Dup (8020535-BSD1)**

Prepared: 02/05/18 Analyzed: 02/06/18

Surrogate: Nitrobenzene-d5	2580		ug/kg	3270		79.0	21.3-119			
Surrogate: 2-Fluorobiphenyl	2400		"	3270		73.3	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2320		"	3270		71.1	18.1-105			
Surrogate: Terphenyl-d14	3430		"	3270		105	29.1-130			

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 15:47

### 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).

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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.

S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

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.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

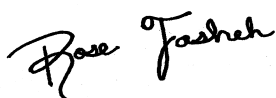
NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager





**SunStar  
Laboratories**

**Chain of Custody Record**

25712 Commerce Centre Drive, Lake Forest, CA 92630  
949-297-5020

Client: Northgate Environmental  
Address: 24411 Ridge Route #130, Laguna Hills  
Phone: (949) 716-0050 Fax: (949) 716-0055  
Project Manager: Derrick Willis

Date: 1-31-2018 Page: 1 of 3  
Project Name: 3rd  
Collector: Dana Brown Client Project #: 2047.15  
Batch #: T190381 EDF #: \_\_\_\_\_

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	Laboratory ID #	Comments/Preservative	Total # of containers
TB-2018-01-31-A	1-31-2018	07:01	AG	V	H										01		2
B-8-1.0		07:25	SO	V+G5											02		7
B-8-5.0		07:28		V+3C											03		7
B-8-10.0		07:33													04		7
B-8-15.0		07:39													05		7
B-8-20.0		07:44													06		7
B-8-25.0		07:50													07		7
B-8-30.0		07:54													08		7
B-12-1.0		08:10		V+G5											09		7
B-12-5.0		08:16		V+3C											10		7
B-12-10.0		08:20													11		7
B-12-15.0		08:25													12		7
B-12-20.0		08:28													13		7
B-12-25.0		08:33													14		7
B-12-30.0		08:37													15		7
Relinquished by: (signature) <u>Dana Brown</u>				Date / Time	Received by: (signature) <u>3rd</u>	Date / Time	Chain of Custody seals Y/N/NA								Total # of containers	Notes	
Relinquished by: (signature) <u>Derrick Willis</u>				Date / Time	Received by: (signature) <u>Dana Brown</u>	Date / Time	Seals intact? Y/N/NA								100		
Relinquished by: (signature) <u>Derrick Willis</u>				Date / Time	Received by: (signature) <u>Dana Brown</u>	Date / Time	Received good condition/cold								2.6	2.8	
Relinquished by: (signature) <u>Derrick Willis</u>				Date / Time	Received by: (signature) <u>Dana Brown</u>	Date / Time	Turn around time: _____								1.4	1.4	

Sample disposal instructions: Disposal @ \$2.00 each \_\_\_\_\_

Return to client \_\_\_\_\_ Pickup \_\_\_\_\_

COC 172278



**SunStar  
Laboratories**

**Chain of Custody Record**

25712 Commerce Centre Drive, Lake Forest, CA 92630  
949-297-5020

Client: Northgate Environmental  
Address: 24411 Ridge Route #130 Laguna Hills  
Phone: (949) 716-0050 Fax: (949) 716-0055  
Project Manager: Derrick Willis

Date: 1-31-2018 Page: 2 of 3  
Project Name: 3rd 4 Fairfax  
Collector: Dana Brown Client Project #: 2047.15  
Batch #: 7180381 EDF #: \_\_\_\_\_

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	Laboratory ID #	Comments/Preservative	Total # of containers
B-4-1.0	1-31-18	09:40	SO	V+G5											16		7
B-4-5.0		09:46		V+G5											17		7
B-4-10.0		09:50													18		7
B-4-15.0		09:55													19		7
B-4-20.0		10:00													20		7
B-4-25.0		10:05													21		7
B-4-30.0		10:09													22		7
B-4		10:25	AO	V+PB											23		9
B-15-1.0		10:45	SO	V+G5											24		7
B-15-5.0		10:48		V+SC											25		7
B-15-10.0		10:52													26		7
B-15-15.0		10:55													27		7
B-15-20.0		11:00													28		7
B-15-25.0		11:09													29		7
B-15-30.0		11:15													30		7
Relinquished by: (signature)	Date / Time	1-31-18 14:20	Received by: (signature)	Date / Time	Chain of Custody seals Y/N/NA										107	Notes	
Relinquished by: (signature)	Date / Time	1-31-18 16:25	Received by: (signature)	Date / Time	Seals intact? Y/N/NA										2.6	2.8	
Relinquished by: (signature)	Date / Time	1-31-18 16:25	Received by: (signature)	Date / Time	Received good condition/cold										2.6	1.4	

Sample disposal instructions: Disposal @ \$2.00 each \_\_\_\_\_

Return to client \_\_\_\_\_

Pickup \_\_\_\_\_

Turn around time: \_\_\_\_\_

COC 172279



25712 Commerce Drive, Lake Forest, CA 92630  
949-297-5020

Client: Northgate Environmental

Address: 2441 Ridge Rowe #130, Laguna Hills

Phone: (949) 716-0050 Fax: (949) 716-0055

Project Manager: Derrick Willis

Date: 1-31-2018

Page: 3 Of 3

Project Name: 3rd Fairfax

Collector: Dana Brown

Client Project #: 2047,15

Batch #: T180381

EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type									Laboratory ID #	Comments/Preservative		
					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
B-2018-01-31-B	1-31-2018	10:30	AQ	V	H											
B-10 -1.0		13:12		V+GF									31			
B-10 -5.0		13:15		V+SC									32			
B-10 -10.0		13:18											33			
B-10 -15.0		13:20											34			
B-10 -20.0		13:24											35			
B-10 -25.0		13:28											36			
B-10 -30.0		13:32											37			
													38			
Relinquished by: (signature)	Date / Time		Received by: (signature)	Date / Time	Total # of containers										Notes	
Dec 1-31-2018	14:20		Jan 1-31-18	1420		Chain of Custody seals Y/N/A Seals intact? Y/N/A										
Relinquished by: (signature)	Date / Time		Received by: (signature)	Date / Time	Received good condition/cold											
Jan 3 Jan 31-18	16:15		Jan 31-18	16:25											2.8 1.4	
Relinquished by: (signature)	Date / Time		Received by: (signature)	Date / Time	Turn around time:											

Sample disposal Instructions: Disposal @ \$2.00 each

Return to client \_\_\_\_\_

Pickup \_\_\_\_\_

**Turn around time:**

COC 172290



## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T180381

Client Name: NORTHGATE Project: 3RD : FAIRFAX

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: Kris Date/Time Courier Received: 1/31/18 14:20

Lab Received by: Sunny Date/Time Lab Received: 1/31/18 16:25

Total number of coolers received: 3

Temperature: Cooler #1 <u>2.8</u>	°C +/- the CF (- 0.2°C) = <u>2.6</u>	°C corrected temperature
Temperature: Cooler #2 <u>3.0</u>	°C +/- the CF (- 0.2°C) = <u>2.8</u>	°C corrected temperature
Temperature: Cooler #3 <u>1.6</u>	°C +/- the CF (- 0.2°C) = <u>1.4</u>	°C corrected temperature
<b>Temperature criteria = ≤ 6°C (no frozen containers)</b>		Within criteria? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>If NO:</b>		
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> 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: BA 2/1/18

Comments: NO TAT ON EITHER : ORIGINAL COC OR REUSED





# Chain of Custody Record

25712 Commerce Centre Drive, Lake Forest, CA 92630  
949-297-5020

Client: Norhgate Environmental  
Address: 24411 Ridge Route #130 Laguna Hills  
Phone: (949) 716-0050 Fax: (949) 716-0055  
Project Manager: Derrick Willis

Date: 1-31-2018 Page: 1 of 3  
Project Name: 3rd 4  
Collector: Dana Brown Client Project #: 2047.15  
Batch #: \_\_\_\_\_ EDF #: \_\_\_\_\_

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	8082 PCBs	8081 PCBs	Laboratory ID #	Comments/Preservative	Total # of containers					
TB-2018-01-31-A	1-31-2018	07:01	Ag	V	X			X					X		X		01		2					
B-8-1.0		07:25	SO	V+AS	X			X					X		X		02		7					
B-8-5.0		07:28		V+SC	X			X					X		X		03		7					
B-8-10.0		07:33			X			X					X		X		04		7					
B-8-15.0		07:39			X			X					X		X		05		7					
B-8-20.0		07:44			X			X					X		X		06		7					
B-8-25.0		07:50															07		7					
B-8-30.0		07:54															08		7					
B-12-1.0		08:10		V+AS	X			X					X		X		09		7					
B-12-5.0		08:16		V+SC	X			X					X		X		10		7					
B-12-10.0		08:20			X			X					X		X		11		7					
B-12-15.0		08:25			X			X					X		X		12		7					
B-12-20.0		08:28			X			X					X		X		13		7					
B-12-25.0		08:33															14		7					
B-12-30.0		08:37															15		7					
Relinquished by: (signature) <u>Dana Brown</u> 1-31-18					Received by: (signature) <u>[Signature]</u>					Date / Time					Total # of containers					Notes				
Relinquished by: (signature)					Received by: (signature)					Date / Time					Chain of Custody seals Y/N/NA					Seals intact? Y/N/NA				
Relinquished by: (signature)					Received by: (signature)					Date / Time					Received good condition/cold									
Relinquished by: (signature)					Received by: (signature)					Date / Time					Turn around time:									

COC 172275





25712 Commerce Drive, Lake Forest, CA 92630  
949-297-5020

## Chain of Custody Record

Client: Northgate Environmental  
Address: 2441 Ridge Route #130 Laguna Hills  
Phone: (949) 716-0050 Fax: (949) 716-0055  
Project Manager: Derrick Willis

Date: 1.31.2018 Page: 2 of 3  
Project Name: 3rd 4 Fairfax  
Collector: Dana Brown Client Project #: 2047.15  
Batch #: \_\_\_\_\_ EDF #: \_\_\_\_\_

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	8082 PCBs	8081 GCPS	Laboratory ID #	Comments/Preservative	Total # of containers
B-4-4.0	1-31-18	09:40	SO	V+GS	X			X		X		X			X	X	16		7
B-4-5.0		09:46		V+GS													17		7
B-4-10.0		09:50			X			X		X		X					18		7
B-4-15.0		09:55			X			X		X		X					19		7
B-4-20.0		10:00			X			X		X		X					20		7
B-4-25.0		10:05															21		7
B-4-30.0		10:09															22		7
B-4		10:25	AO	V+PS	X					X		X					23		9
B-15-1.0		10:45	SO	V+GS	X			X		X		X					24		2
B-15-5.0		10:48		V+GS	X												25		7
B-15-10.0		10:52			X			X		X		X					26		7
B-15-15.0		10:55								X		X					27		7
B-15-20.0		11:00			X			X									28		7
B-15-25.0		11:04															29		7
B-15-30.0		11:15															30		7
Relinquished by: (signature)	Date / Time		Received by: (signature)														107	Notes	
Relinquished by: (signature)	Date / Time		Received by: (signature)																
Relinquished by: (signature)	Date / Time		Received by: (signature)																
Relinquished by: (signature)	Date / Time		Received by: (signature)																
Relinquished by: (signature)	Date / Time		Received by: (signature)																
Relinquished by: (signature)	Date / Time		Received by: (signature)																
Relinquished by: (signature)	Date / Time		Received by: (signature)																
Relinquished by: (signature)	Date / Time		Received by: (signature)																
Relinquished by: (signature)	Date / Time		Received by: (signature)																
Relinquished by: (signature)	Date / Time		Received by: (signature)																
Relinquished by: (signature)	Date / Time		Received by: (signature)																
Relinquished by: (signature)	Date / Time		Received by: (signature)																
Relinquished by: (signature)	Date / Time		Received by: (signature)																
Relinquished by: (signature)	Date / Time		Received by: (signature)																
Relinquished by: (signature)	Date / Time		Received by: (signature)																
Relinquished by: (signature)	Date / Time																		

COC 172273



### Chain of Custody Record

25712 Commerce Centre Drive, Lake Forest, CA 92630  
949-297-5020

Client: Northgate Environmental  
Address: 2441 Ridge Route #130, Laguna Hills  
Phone: (949) 716-0050 Fax: (949) 716-0055  
Project Manager: Derrick Willis

Date: 1-31-2018 Page: 3 of 3  
Project Name: 3rd d Fairfax  
Collector: Dana Brown Client Project #: 2047.15  
Batch #: \_\_\_\_\_ EDF #: \_\_\_\_\_

[illegible]

COC 172290





**SunStar  
Laboratories**

**Chain of Custody Record**

25712 Commerce Centre Drive, Lake Forest, CA 92630  
949-297-5020

Client: Northgate Environmental  
Address: 24411 Ridge Route #130 Laguna Hills  
Phone: (949) 716-0050 Fax: (949) 716-0055  
Project Manager: Derrick Willis

Date: 1-31-2018 Page: 1 of 3  
Project Name: 3rd 4  
Collector: Dana Brown Client Project #: 2047.15  
Batch #: \_\_\_\_\_ EDF #: \_\_\_\_\_

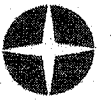
Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8082 PCBs	8081 PCBs	Laboratory ID #	Comments/Preservative	Total # of containers
18-2018-01-31-A	1-31-2018	07:01	AG	V	X			X					X	X	X		01		2
18-8-1.0		07:25	SO	V+AS	X			X					X	X	X		02		7
18-8-5.0		07:28		V+SC	X			X					X	X	X		03		7
18-8-10.0		07:33			X			X					X	X	X		04		7
18-8-15.0		07:39			X			X					X	X	X		05		7
18-8-20.0		07:44			X			X					X	X	X		06		7
18-8-25.0		07:50			X			X					X	X	X		07		7
18-8-30.0		07:54			X			X					X	X	X		08		7
18-12-1.0		08:10		V+AS	X			X					X	X	X		09		7
18-12-5.0		08:16		V+SC	X			X					X	X	X		10		7
18-12-10.0		08:20			X			X					X	X	X		11		7
18-12-15.0		08:25			X			X					X	X	X		12		7
18-12-20.0		08:28			X			X					X	X	X		13		7
18-12-25.0		08:33			X			X					X	X	X		14		7
18-12-30.0		08:37			X			X					X	X	X		15		7
Relinquished by: (signature) <u>Dana Brown</u> 1-31-18					Received by: (signature)	Date / Time										Total # of containers	Notes		
Relinquished by: (signature)					Received by: (signature)	Date / Time										Chain of Custody seals Y/N/NA	Seals intact? Y/N/NA		
Relinquished by: (signature)					Received by: (signature)	Date / Time										Received good condition/cold			
Relinquished by: (signature)					Received by: (signature)	Date / Time										Turn around time:			

Sample disposal instructions: Disposal @ \$2.00 each

Return to client

Pickup

COC 172275



**SunStar  
Laboratories**

**Chain of Custody Record**

25712 Commerce Drive, Lake Forest, CA 92630  
949-297-5020

Client: Northgate Environmental  
Address: 24411 Ridge Route #130, Laguna Hills  
Phone: (949) 716-0050 Fax: (949) 716-0055  
Project Manager: Derrick Willis

Date: 1-31-2018 Page: 2 of 3  
Project Name: 3rd 4 Fairfax  
Collector: Dana Brown Client Project #: 2047.15  
Batch #: \_\_\_\_\_ EDF #: \_\_\_\_\_

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	8082 PCBs	8081 PCBs	Laboratory ID #	Comments/Preservative	Total # of containers
B-4-1.0	1-31-18	09:40	SO	V+G5	X			X		X	X	X	X		X	X	15		7
B-4-5.0		09:46		V+SC	X			X		X	X	X	X				17		7
B-4-10.0		09:50			X			X		X	X	X	X				18		7
B-4-15.0		09:55			X			X		X	X	X	X				19		7
B-4-20.0		10:00			X			X		X	X	X	X				20		7
B-4-25.0		10:05			X			X		X	X	X	X				21		7
B-4-30.0		10:09			X			X		X	X	X	X				22		7
B-4		10:25	AO	V+PB	X			X		X	X	X	X				23		7
B-15-1.0		10:45	SO	V+G5	X			X		X	X	X	X				24		7
B-15-5.0		10:48		V+SC	X			X		X	X	X	X				25		7
B-15-10.0		10:52			X			X		X	X	X	X				26		7
B-15-15.0		10:55			X			X		X	X	X	X				27		7
B-15-20.0		11:00			X			X		X	X	X	X				28		7
B-15-25.0		11:00			X			X		X	X	X	X				29		7
B-15-30.0		11:15			X			X		X	X	X	X				30		7
B-15-30.0		11:15			X			X		X	X	X	X				30		7
Relinquished by: (signature) <u>Dana Brown</u> Date / Time <u>1-31-18</u>					Received by: (signature) _____ Date / Time _____					Chain of Custody seals Y/N/NA Seals intact? Y/N/NA _____					Total # of containers <u>107</u>				
Relinquished by: (signature) _____ Date / Time _____					Received by: (signature) _____ Date / Time _____					Received good condition/cold _____					Notes				
Relinquished by: (signature) _____ Date / Time _____					Received by: (signature) _____ Date / Time _____					Turn around time: _____					COC 172279				

Sample disposal instructions: Disposal @ \$2.00 each

Return to client

Pickup



25712 Commerce Centre Drive, Lake Forest, CA 92630  
949-297-5020

Date: 1-31-2018 Page: 3 of 3  
Project Name: 3rd d Fairfax  
Collector: Dana Brown Client Project #: 2047.15  
Batch #: \_\_\_\_\_ EDF #: \_\_\_\_\_

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COC 172290



**WORK ORDER**

**T180381**

**Client:** Northgate Environmental Management -- Laguna  
**Project:** 3rd & Fairfax  
**Project Manager:** Rose Fasheh  
**Project Number:** 2047.15

**Report To:**

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

Date Due: 02/08/18 17:00 (5 day TAT)  
Received By: Sunny Lounethone  
Logged In By: Brian Charon  
Date Received: 01/31/18 16:25  
Date Logged In: 02/01/18 07:18

Samples Received at: **2.8°C**  
Custody Seals No Received On Ice Yes  
Containers Intact Yes  
COC/Labels Agree Yes  
Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
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<b>T180381-01 TB-2018.01.31-A [Water] Sampled 01/31/18 07:01 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
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<b>T180381-02 B- 8-1.0 [Soil] Sampled 01/31/18 07:25 (GMT-08:00) Pacific Time (US &amp;</b>				
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6010 Title 22	02/08/18 15:00	5	07/30/18 07:25	
8015 Carbon Chain	02/08/18 15:00	5	02/14/18 07:25	
8081 Pesticides	02/08/18 15:00	5	02/14/18 07:25	
8082 PCB	02/08/18 15:00	5	02/14/18 07:25	
8260 5035	02/08/18 15:00	5	02/14/18 07:25	
8270C	02/08/18 15:00	5	02/14/18 07:25	

<b>T180381-03 B- 8-5.0 [Soil] Sampled 01/31/18 07:28 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
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<b>T180381-04 B- 8-10.0 [Soil] Sampled 01/31/18 07:33 (GMT-08:00) Pacific Time (US &amp;</b>				
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6010 Title 22	02/08/18 15:00	5	07/30/18 07:33	
8015 Carbon Chain	02/08/18 15:00	5	02/14/18 07:33	
8082 PCB	02/08/18 15:00	5	02/14/18 07:33	
8260 5035	02/08/18 15:00	5	02/14/18 07:33	
8270C	02/08/18 15:00	5	02/14/18 07:33	

**WORK ORDER**

**T180381**

**Client:** Northgate Environmental Management -- Laguna      **Project Manager:** Rose Fasheh  
**Project:** 3rd & Fairfax      **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
<b>T180381-05 B- 8-15.0 [Soil] Sampled 01/31/18 07:39 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8015 Carbon Chain	02/08/18 15:00	5	02/14/18 07:39	
8260 5035	02/08/18 15:00	5	02/14/18 07:39	
8270C	02/08/18 15:00	5	02/14/18 07:39	
<b>T180381-06 B- 8-20.0 [Soil] Sampled 01/31/18 07:44 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Title 22	02/08/18 15:00	5	07/30/18 07:44	
8015 Carbon Chain	02/08/18 15:00	5	02/14/18 07:44	
8082 PCB	02/08/18 15:00	5	02/14/18 07:44	
8260 5035	02/08/18 15:00	5	02/14/18 07:44	
8270C	02/08/18 15:00	5	02/14/18 07:44	
<b>T180381-07 B- 8-25.0 [Soil] Sampled 01/31/18 07:50 (GMT-08:00) Pacific Time HOLD</b>				
<b>(US &amp;</b>				
[NO ANALYSES]				
<b>T180381-08 B- 8-30.0 [Soil] Sampled 01/31/18 07:54 (GMT-08:00) Pacific Time HOLD</b>				
<b>(US &amp;</b>				
[NO ANALYSES]				
<b>T180381-09 B- 12-1.0 [Soil] Sampled 01/31/18 08:10 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Title 22	02/08/18 15:00	5	07/30/18 08:10	
8015 Carbon Chain	02/08/18 15:00	5	02/14/18 08:10	
8081 Pesticides	02/08/18 15:00	5	02/14/18 08:10	
8082 PCB	02/08/18 15:00	5	02/14/18 08:10	
8260 5035	02/08/18 15:00	5	02/14/18 08:10	
8270C	02/08/18 15:00	5	02/14/18 08:10	
<b>T180381-10 B- 12-5.0 [Soil] Sampled 01/31/18 08:16 (GMT-08:00) Pacific Time HOLD</b>				
<b>(US &amp;</b>				
[NO ANALYSES]				

**WORK ORDER**

**T180381**

**Client:** Northgate Environmental Management -- Laguna      **Project Manager:** Rose Fasheh  
**Project:** 3rd & Fairfax      **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
<b>T180381-11 B- 12-10.0 [Soil] Sampled 01/31/18 08:20 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Title 22	02/08/18 15:00	5	07/30/18 08:20	
8015 Carbon Chain	02/08/18 15:00	5	02/14/18 08:20	
8082 PCB	02/08/18 15:00	5	02/14/18 08:20	
8260 5035	02/08/18 15:00	5	02/14/18 08:20	
8270C	02/08/18 15:00	5	02/14/18 08:20	

**T180381-12 B- 12-15.0 [Soil] Sampled 01/31/18 08:25 (GMT-08:00) Pacific Time HOLD (US &**  
[NO ANALYSES]

<b>T180381-13 B- 12-20.0 [Soil] Sampled 01/31/18 08:28 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Title 22	02/08/18 15:00	5	07/30/18 08:28	
8015 Carbon Chain	02/08/18 15:00	5	02/14/18 08:28	
8082 PCB	02/08/18 15:00	5	02/14/18 08:28	
8260 5035	02/08/18 15:00	5	02/14/18 08:28	
8270C	02/08/18 15:00	5	02/14/18 08:28	

**T180381-14 B- 12-25.0 [Soil] Sampled 01/31/18 08:33 (GMT-08:00) Pacific Time HOLD (US &**  
[NO ANALYSES]

**T180381-15 B- 12-30.0 [Soil] Sampled 01/31/18 08:37 (GMT-08:00) Pacific Time HOLD (US &**  
[NO ANALYSES]

<b>T180381-16 B- 4-1.0 [Soil] Sampled 01/31/18 09:40 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Title 22	02/08/18 15:00	5	07/30/18 09:40	
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 09:40	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 09:40	
8081 Pesticides	02/08/18 15:00	5	02/14/18 09:40	
8082 PCB	02/08/18 15:00	5	02/14/18 09:40	
8260 5035	02/08/18 15:00	5	02/14/18 09:40	
8270C	02/08/18 15:00	5	02/14/18 09:40	

**T180381-17 B- 4-5.0 [Soil] Sampled 01/31/18 09:46 (GMT-08:00) Pacific Time HOLD (US &**  
[NO ANALYSES]

**WORK ORDER**

**T180381**

<b>Client:</b> Northgate Environmental Management -- Laguna	<b>Project Manager:</b> Rose Fasheh
<b>Project:</b> 3rd & Fairfax	<b>Project Number:</b> 2047.15

Analysis	Due	TAT	Expires	Comments
<b>T180381-18 B- 4-10.0 [Soil] Sampled 01/31/18 09:50 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Title 22	02/08/18 15:00	5	07/30/18 09:50	
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 09:50	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 09:50	
8082 PCB	02/08/18 15:00	5	02/14/18 09:50	
8260 5035	02/08/18 15:00	5	02/14/18 09:50	
8270C	02/08/18 15:00	5	02/14/18 09:50	
<b>T180381-19 B- 4-15.0 [Soil] Sampled 01/31/18 09:55 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 09:55	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 09:55	
8260 5035	02/08/18 15:00	5	02/14/18 09:55	
<b>T180381-20 B- 4-20.0 [Soil] Sampled 01/31/18 10:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 10:00	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 10:00	
8082 PCB	02/08/18 15:00	5	02/14/18 10:00	
8260 5035	02/08/18 15:00	5	02/14/18 10:00	
8270C	02/08/18 15:00	5	02/14/18 10:00	
<b>T180381-21 B- 4-25.0 [Soil] Sampled 01/31/18 10:05 (GMT-08:00) Pacific Time HOLD (US &amp;</b>				
[NO ANALYSES]				
<b>T180381-22 B- 4-30.0 [Soil] Sampled 01/31/18 10:09 (GMT-08:00) Pacific Time HOLD (US &amp;</b>				
[NO ANALYSES]				
<b>T180381-23 B-4 [Water] Sampled 01/31/18 10:25 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 CC (D/MO)	02/08/18 15:00	5	02/07/18 10:25	
8015 m Gas Purge	02/08/18 15:00	5	02/14/18 10:25	
8260	02/08/18 15:00	5	02/14/18 10:25	

**WORK ORDER**

**T180381**

<b>Client:</b> Northgate Environmental Management -- Laguna	<b>Project Manager:</b> Rose Fasheh
<b>Project:</b> 3rd & Fairfax	<b>Project Number:</b> 2047.15

Analysis	Due	TAT	Expires	Comments
<b>T180381-24 B- 15-1.0 [Soil] Sampled 01/31/18 10:45 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 10:45	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 10:45	
8081 Pesticides	02/08/18 15:00	5	02/14/18 10:45	
8082 PCB	02/08/18 15:00	5	02/14/18 10:45	
8260 5035	02/08/18 15:00	5	02/14/18 10:45	
8270C	02/08/18 15:00	5	02/14/18 10:45	
<b>T180381-25 B- 15-5.0 [Soil] Sampled 01/31/18 10:48 (GMT-08:00) Pacific Time HOLD</b>				
<b>(US &amp;</b>				
[NO ANALYSES]				
<b>T180381-26 B- 15-10.0 [Soil] Sampled 01/31/18 10:52 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 10:52	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 10:52	
8082 PCB	02/08/18 15:00	5	02/14/18 10:52	
8260 5035	02/08/18 15:00	5	02/14/18 10:52	
8270C	02/08/18 15:00	5	02/14/18 10:52	
<b>T180381-27 B- 15-15.0 [Soil] Sampled 01/31/18 10:55 (GMT-08:00) Pacific Time HOLD</b>				
<b>(US &amp;</b>				
[NO ANALYSES]				
<b>T180381-28 B- 15-20.0 [Soil] Sampled 01/31/18 11:00 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 11:00	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 11:00	
8082 PCB	02/08/18 15:00	5	02/14/18 11:00	
8260 5035	02/08/18 15:00	5	02/14/18 11:00	
8270C	02/08/18 15:00	5	02/14/18 11:00	
<b>T180381-29 B- 15-25.0 [Soil] Sampled 01/31/18 11:09 (GMT-08:00) Pacific Time HOLD</b>				
<b>(US &amp;</b>				
[NO ANALYSES]				
<b>T180381-30 B- 15-30.0 [Soil] Sampled 01/31/18 11:15 (GMT-08:00) Pacific Time HOLD</b>				
<b>(US &amp;</b>				
[NO ANALYSES]				

**WORK ORDER**

**T180381**

**Client:** Northgate Environmental Management -- Laguna      **Project Manager:** Rose Fasheh  
**Project:** 3rd & Fairfax      **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
<b>T180381-31 TB-2018.01.31-B [Water] Sampled 01/31/18 10:30 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				
<b>T180381-32 B- 10-1.0 [Soil] Sampled 01/31/18 13:12 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Title 22	02/08/18 15:00	5	07/30/18 13:12	
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 13:12	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 13:12	
8081 Pesticides	02/08/18 15:00	5	02/14/18 13:12	
8082 PCB	02/08/18 15:00	5	02/14/18 13:12	
8260 5035	02/08/18 15:00	5	02/14/18 13:12	
<b>T180381-33 B- 10-5.0 [Soil] Sampled 01/31/18 13:15 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				
<b>T180381-34 B- 10-10.0 [Soil] Sampled 01/31/18 13:18 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Title 22	02/08/18 15:00	5	07/30/18 13:18	
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 13:18	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 13:18	
8082 PCB	02/08/18 15:00	5	02/14/18 13:18	
8260 5035	02/08/18 15:00	5	02/14/18 13:18	
<b>T180381-35 B- 10-15.0 [Soil] Sampled 01/31/18 13:20 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				
<b>T180381-36 B- 10-20.0 [Soil] Sampled 01/31/18 13:24 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Title 22	02/08/18 15:00	5	07/30/18 13:24	
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 13:24	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 13:24	
8082 PCB	02/08/18 15:00	5	02/14/18 13:24	
8260 5035	02/08/18 15:00	5	02/14/18 13:24	
<b>T180381-37 B- 10-25.0 [Soil] Sampled 01/31/18 13:28 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				

**WORK ORDER**

**T180381**

**Client:** Northgate Environmental Management -- Laguna      **Project Manager:** Rose Fasheh  
**Project:** 3rd & Fairfax      **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
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T180381-38 B- 10-30.0 [Soil] Sampled 01/31/18 13:32 (GMT-08:00) Pacific Time HOLD (US & [NO ANALYSES]				
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**Analysis groups included in this work order**

6010 Title 22

subgroup 6010B T22      7470/71 Hg



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08 February 2018

Derrick Willis  
Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
Laguna Hills, CA 92653  
RE: 3rd & Fairfax

Enclosed are the results of analyses for samples received by the laboratory on 01/31/18 16:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rose Fasheh  
Project Manager





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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 16:57

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-7-1.0	T180384-02	Soil	01/30/18 14:25	01/31/18 16:25
B-7-10.0	T180384-04	Soil	01/30/18 14:53	01/31/18 16:25
B-7-20.0	T180384-06	Soil	01/30/18 14:59	01/31/18 16:25
B-9-1.0	T180384-09	Soil	01/30/18 16:30	01/31/18 16:25
B-9-10.0	T180384-11	Soil	01/30/18 16:43	01/31/18 16:25
B-9-20.0	T180384-13	Soil	01/30/18 16:57	01/31/18 16:25

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

### DETECTIONS SUMMARY

Sample ID: B-7-1.0

Laboratory ID: T180384-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C29-C40 (MORO)	67	10	mg/kg	EPA 8015B	
Barium	75	1.0	mg/kg	EPA 6010B	
Chromium	22	2.0	mg/kg	EPA 6010B	
Cobalt	12	2.0	mg/kg	EPA 6010B	
Copper	8.0	1.0	mg/kg	EPA 6010B	
Nickel	15	2.0	mg/kg	EPA 6010B	
Vanadium	42	5.0	mg/kg	EPA 6010B	
Zinc	45	1.0	mg/kg	EPA 6010B	

Sample ID: B-7-10.0

Laboratory ID: T180384-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	37	1.0	mg/kg	EPA 6010B	
Chromium	15	2.0	mg/kg	EPA 6010B	
Cobalt	5.5	2.0	mg/kg	EPA 6010B	
Copper	5.0	1.0	mg/kg	EPA 6010B	
Nickel	12	2.0	mg/kg	EPA 6010B	
Vanadium	20	5.0	mg/kg	EPA 6010B	
Zinc	17	1.0	mg/kg	EPA 6010B	

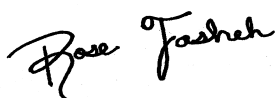
Sample ID: B-7-20.0

Laboratory ID: T180384-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	38	1.0	mg/kg	EPA 6010B	
Chromium	12	2.0	mg/kg	EPA 6010B	
Cobalt	5.0	2.0	mg/kg	EPA 6010B	
Copper	5.1	1.0	mg/kg	EPA 6010B	
Nickel	13	2.0	mg/kg	EPA 6010B	
Vanadium	14	5.0	mg/kg	EPA 6010B	
Zinc	11	1.0	mg/kg	EPA 6010B	

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Rose Fasheh, Project Manager

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

Sample ID: B-9-1.0

Laboratory ID: T180384-09

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	110	10		mg/kg	EPA 8015B	
Barium	83	1.0		mg/kg	EPA 6010B	
Chromium	6.5	2.0		mg/kg	EPA 6010B	
Cobalt	6.2	2.0		mg/kg	EPA 6010B	
Copper	16	1.0		mg/kg	EPA 6010B	
Nickel	6.1	2.0		mg/kg	EPA 6010B	
Vanadium	16	5.0		mg/kg	EPA 6010B	
Zinc	38	1.0		mg/kg	EPA 6010B	

Sample ID: B-9-10.0

Laboratory ID: T180384-11

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	55	1.0		mg/kg	EPA 6010B	
Chromium	19	2.0		mg/kg	EPA 6010B	
Cobalt	8.3	2.0		mg/kg	EPA 6010B	
Copper	11	1.0		mg/kg	EPA 6010B	
Nickel	18	2.0		mg/kg	EPA 6010B	
Vanadium	23	5.0		mg/kg	EPA 6010B	
Zinc	33	1.0		mg/kg	EPA 6010B	

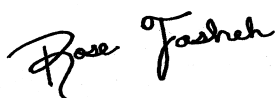
Sample ID: B-9-20.0

Laboratory ID: T180384-13

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	31	10		mg/kg	EPA 8015B	
C29-C40 (MORO)	20	10		mg/kg	EPA 8015B	
Barium	79	0.91		mg/kg	EPA 6010B	
Cadmium	2.6	1.8		mg/kg	EPA 6010B	
Chromium	14	1.8		mg/kg	EPA 6010B	
Cobalt	11	1.8		mg/kg	EPA 6010B	
Copper	8.6	0.91		mg/kg	EPA 6010B	
Nickel	16	1.8		mg/kg	EPA 6010B	
Vanadium	19	4.5		mg/kg	EPA 6010B	
Zinc	28	0.91		mg/kg	EPA 6010B	

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Rose Fasheh, Project Manager



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Northgate Environmental Management -- Laguna Hills  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 16:57

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-7-1.0**  
**T180384-02 (Soil)**

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	8020135	02/01/18	02/02/18	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
<b>C29-C40 (MORO)</b>	<b>67</b>	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		89.7 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020228	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>75</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>22</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>12</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>8.0</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>15</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>42</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>45</b>	1.0	"	"	"	"	"	"	

**Cold Vapor Extraction EPA 7470/7471**

Mercury	ND	0.10	mg/kg	1	8020227	02/02/18	02/05/18	EPA 7471A Soil	
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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-7-1.0**  
**T180384-02 (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	50	ug/kg	10	8020134	02/01/18	02/06/18	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	100	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	2000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		106 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		111 %	35-140		"	"	"	"	

**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 16:57

**B-7-1.0**  
**T180384-02 (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**

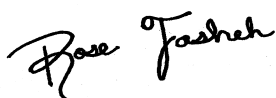
Surrogate: Tetrachloro-meta-xylene	74.6 %	35-140	8020133	02/01/18	02/02/18	EPA 8082
Surrogate: Decachlorobiphenyl	59.0 %	35-140	"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.9	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035
Bromochloromethane	ND	1.9	"	"	"	"	"	"
Bromodichloromethane	ND	1.9	"	"	"	"	"	"
Bromoform	ND	1.9	"	"	"	"	"	"
Bromomethane	ND	1.9	"	"	"	"	"	"
n-Butylbenzene	ND	1.9	"	"	"	"	"	"
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"
Chlorobenzene	ND	1.9	"	"	"	"	"	"
Chloroethane	ND	1.9	"	"	"	"	"	"
Chloroform	ND	1.9	"	"	"	"	"	"
Chloromethane	ND	1.9	"	"	"	"	"	"
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"
Dibromochloromethane	ND	1.9	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	3.8	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.9	"	"	"	"	"	"
Dibromomethane	ND	1.9	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.9	"	"	"	"	"	"
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-7-1.0**  
**T180384-02 (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**

1,2-Dichloropropane	ND	1.9	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
Methylene chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
Vinyl chloride	ND	1.9	"	"	"	"	"	"	
Benzene	ND	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.8	"	"	"	"	"	"	
o-Xylene	ND	1.9	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-7-1.0**

**T180384-02 (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**

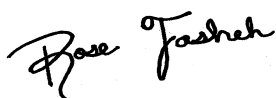
Surrogate: Toluene-d8	103 %	85.5-116	8013121	02/01/18	02/01/18	EPA 8260B/5035
Surrogate: 4-Bromofluorobenzene	91.2 %	81.2-123	"	"	"	"
Surrogate: Dibromofluoromethane	101 %	95.7-135	"	"	"	"

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C
Phenol	ND	1000	"	"	"	"	"	"
Aniline	ND	300	"	"	"	"	"	"
2-Chlorophenol	ND	1000	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"
2-Methylnaphthalene	ND	300	"	"	"	"	"	"
1-Methylnaphthalene	ND	300	"	"	"	"	"	"
Acenaphthene	ND	300	"	"	"	"	"	"
4-Nitrophenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"
Pentachlorophenol	ND	1000	"	"	"	"	"	"
Pyrene	ND	300	"	"	"	"	"	"
Acenaphthylene	ND	300	"	"	"	"	"	"
Anthracene	ND	300	"	"	"	"	"	"
Benzo (a) anthracene	ND	300	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"
Benzo (a) pyrene	ND	300	"	"	"	"	"	"
Benzyl alcohol	ND	300	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-7-1.0**

**T180384-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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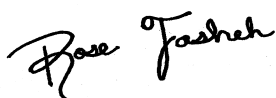
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**Semivolatile Organic Compounds by EPA Method 8270C**

4-Bromophenyl phenyl ether	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"
4-Chloroaniline	ND	300	"	"	"	"	"	"
2-Chloronaphthalene	ND	300	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"
Chrysene	ND	300	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"
Dibenzofuran	ND	300	"	"	"	"	"	"
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	300	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"
Fluoranthene	ND	300	"	"	"	"	"	"
Fluorene	ND	300	"	"	"	"	"	"
Hexachlorobenzene	ND	1500	"	"	"	"	"	"
Hexachlorobutadiene	ND	300	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	300	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 16:57

**B-7-1.0**

**T180384-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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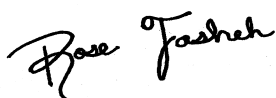
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**Semivolatile Organic Compounds by EPA Method 8270C**

4-Nitroaniline	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		67.1 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		77.0 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		84.5 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		76.5 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		75.4 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		97.6 %	29.1-130		"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-7-10.0**  
**T180384-04 (Soil)**

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	8020135	02/01/18	02/02/18	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		96.8 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

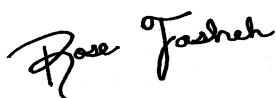
Antimony	ND	3.0	mg/kg	1	8020228	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>37</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>15</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>5.5</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>5.0</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>12</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>20</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>17</b>	1.0	"	"	"	"	"	"	

**Cold Vapor Extraction EPA 7470/7471**

Mercury	ND	0.10	mg/kg	1	8020227	02/02/18	02/05/18	EPA 7471A Soil	
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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 16:57

**B-7-10.0**  
**T180384-04 (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**

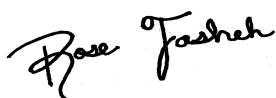
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		54.2 %	35-140		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		53.3 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.8	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.8	"	"	"	"	"	"	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-7-10.0**  
**T180384-04 (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**

1,4-Dichlorobenzene	ND	1.8	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	
Trichloroethene	ND	1.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-7-10.0**  
**T180384-04 (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**

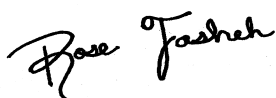
1,2,4-Trimethylbenzene	ND	1.8	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	ND	3.6	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		108 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.2 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-7-10.0**  
**T180384-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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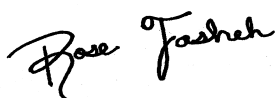
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**Semivolatile Organic Compounds by EPA Method 8270C**

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C
Benzo (a) pyrene	ND	300	"	"	"	"	"	"
Benzyl alcohol	ND	300	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"
4-Chloroaniline	ND	300	"	"	"	"	"	"
2-Chloronaphthalene	ND	300	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"
Chrysene	ND	300	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"
Dibenzofuran	ND	300	"	"	"	"	"	"
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	300	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"
Fluoranthene	ND	300	"	"	"	"	"	"
Fluorene	ND	300	"	"	"	"	"	"
Hexachlorobenzene	ND	1500	"	"	"	"	"	"
Hexachlorobutadiene	ND	300	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	300	"	"	"	"	"	"

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-7-10.0**  
**T180384-04 (Soil)**

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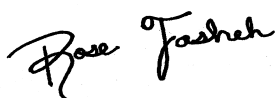
**SunStar Laboratories, Inc.**

**Semivolatile Organic Compounds by EPA Method 8270C**

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		52.5 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		60.3 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		74.8 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		78.2 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		79.0 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		115 %	29.1-130		"	"	"	"	

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-7-20.0**  
**T180384-06 (Soil)**

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	8020135	02/01/18	02/02/18	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		92.9 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Antimony	ND	3.0	mg/kg	1	8020228	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>38</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>12</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>5.0</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>5.1</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>13</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>14</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>11</b>	1.0	"	"	"	"	"	"	

**Cold Vapor Extraction EPA 7470/7471**

Mercury	ND	0.10	mg/kg	1	8020227	02/02/18	02/05/18	EPA 7471A Soil	
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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-7-20.0**  
**T180384-06 (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**

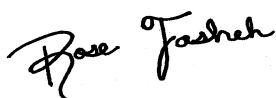
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		58.0 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		59.0 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	2.9	ug/kg	1	8013121	02/01/18	02/01/18	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	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-7-20.0**  
**T180384-06 (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**

1,4-Dichlorobenzene	ND	2.9	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
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	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.9	"	"	"	"	"	"	
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	2.9	"	"	"	"	"	"	
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	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-7-20.0**  
**T180384-06 (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**

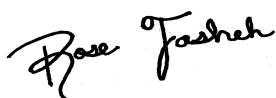
1,2,4-Trimethylbenzene	ND	2.9	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
Vinyl chloride	ND	2.9	"	"	"	"	"	"	
Benzene	ND	2.9	"	"	"	"	"	"	
Toluene	ND	2.9	"	"	"	"	"	"	
Ethylbenzene	ND	2.9	"	"	"	"	"	"	
m,p-Xylene	ND	5.8	"	"	"	"	"	"	
o-Xylene	ND	2.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		102 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.2 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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Project: 3rd & Fairfax  
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Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-7-20.0**  
**T180384-06 (Soil)**

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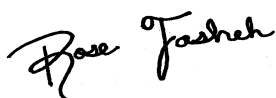
**SunStar Laboratories, Inc.**

**Semivolatile Organic Compounds by EPA Method 8270C**

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-7-20.0**  
**T180384-06 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol	71.5 %	15-121	"	"	"	"	"	"
Surrogate: Phenol-d6	71.5 %	24-113	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	92.9 %	21.3-119	"	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	87.7 %	32.4-102	"	"	"	"	"	"
Surrogate: 2,4,6-Tribromophenol	90.9 %	18.1-105	"	"	"	"	"	"
Surrogate: Terphenyl-d14	106 %	29.1-130	"	"	"	"	"	"

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 16:57

**B-9-1.0**  
**T180384-09 (Soil)**

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	8020135	02/01/18	02/02/18	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
<b>C29-C40 (MORO)</b>	<b>110</b>	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		90.5 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

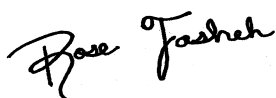
Antimony	ND	3.0	mg/kg	1	8020228	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>83</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>6.5</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.2</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>16</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>6.1</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>16</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>38</b>	1.0	"	"	"	"	"	"	

**Cold Vapor Extraction EPA 7470/7471**

Mercury	ND	0.10	mg/kg	1	8020227	02/02/18	02/05/18	EPA 7471A Soil	
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Rose Fasheh, Project Manager





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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-9-1.0**  
**T180384-09 (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	500	ug/kg	100	8020134	02/01/18	02/06/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	500	"	"	"	"	"	"	R-07
beta-BHC	ND	500	"	"	"	"	"	"	R-07
delta-BHC	ND	500	"	"	"	"	"	"	R-07
Heptachlor	ND	500	"	"	"	"	"	"	R-07
Aldrin	ND	500	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	500	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	500	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	500	"	"	"	"	"	"	R-07
Endosulfan I	ND	500	"	"	"	"	"	"	R-07
4,4'-DDE	ND	500	"	"	"	"	"	"	R-07
Dieldrin	ND	500	"	"	"	"	"	"	R-07
Endrin	ND	500	"	"	"	"	"	"	R-07
4,4'-DDD	ND	500	"	"	"	"	"	"	R-07
Endosulfan II	ND	500	"	"	"	"	"	"	R-07
4,4'-DDT	ND	500	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	500	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	500	"	"	"	"	"	"	R-07
Methoxychlor	ND	1000	"	"	"	"	"	"	R-07
Endrin ketone	ND	500	"	"	"	"	"	"	R-07
Toxaphene	ND	20000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		%	35-140		"	"	"	"	S-01
Surrogate: Decachlorobiphenyl		%	35-140		"	"	"	"	S-01

**Polychlorinated Biphenyls by EPA Method 8082**

PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 16:57

**B-9-1.0**  
**T180384-09 (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**

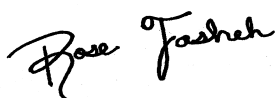
Surrogate: Tetrachloro-meta-xylene	69.4 %	35-140	8020133	02/01/18	02/02/18	EPA 8082
Surrogate: Decachlorobiphenyl	52.6 %	35-140	"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	2.0	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035
Bromochloromethane	ND	2.0	"	"	"	"	"	"
Bromodichloromethane	ND	2.0	"	"	"	"	"	"
Bromoform	ND	2.0	"	"	"	"	"	"
Bromomethane	ND	2.0	"	"	"	"	"	"
n-Butylbenzene	ND	2.0	"	"	"	"	"	"
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"
Carbon tetrachloride	ND	2.0	"	"	"	"	"	"
Chlorobenzene	ND	2.0	"	"	"	"	"	"
Chloroethane	ND	2.0	"	"	"	"	"	"
Chloroform	ND	2.0	"	"	"	"	"	"
Chloromethane	ND	2.0	"	"	"	"	"	"
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"
Dibromochloromethane	ND	2.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	4.1	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"
Dibromomethane	ND	2.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	2.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

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**B-9-1.0**  
**T180384-09 (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**

1,2-Dichloropropane	ND	2.0	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
Methylene chloride	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	
Styrene	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
Trichloroethene	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Vinyl chloride	ND	2.0	"	"	"	"	"	"	
Benzene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	4.1	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
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### B-9-1.0

### T180384-09 (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

Surrogate: Toluene-d8	103 %	85.5-116	8013121	02/01/18	02/01/18	EPA 8260B/5035
Surrogate: 4-Bromofluorobenzene	90.4 %	81.2-123	"	"	"	"
Surrogate: Dibromofluoromethane	104 %	95.7-135	"	"	"	"

#### Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C
Aniline	ND	300	"	"	"	"	"	"
Phenol	ND	1000	"	"	"	"	"	"
2-Chlorophenol	ND	1000	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"
1-Methylnaphthalene	ND	300	"	"	"	"	"	"
2-Methylnaphthalene	ND	300	"	"	"	"	"	"
Acenaphthene	ND	300	"	"	"	"	"	"
4-Nitrophenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"
Pentachlorophenol	ND	1000	"	"	"	"	"	"
Pyrene	ND	300	"	"	"	"	"	"
Acenaphthylene	ND	300	"	"	"	"	"	"
Anthracene	ND	300	"	"	"	"	"	"
Benzo (a) anthracene	ND	300	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"
Benzo (a) pyrene	ND	300	"	"	"	"	"	"
Benzyl alcohol	ND	300	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"

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**B-9-1.0**

**T180384-09 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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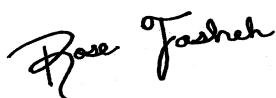
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**Semivolatile Organic Compounds by EPA Method 8270C**

4-Bromophenyl phenyl ether	ND	300	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"
4-Chloroaniline	ND	300	"	"	"	"	"	"
2-Chloronaphthalene	ND	300	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"
Chrysene	ND	300	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"
Dibenzofuran	ND	300	"	"	"	"	"	"
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	300	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"
Fluoranthene	ND	300	"	"	"	"	"	"
Fluorene	ND	300	"	"	"	"	"	"
Hexachlorobenzene	ND	1500	"	"	"	"	"	"
Hexachlorobutadiene	ND	300	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"
Hexachloroethane	ND	300	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"

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**T180384-09 (Soil)**

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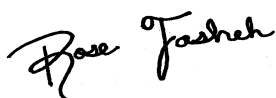
**SunStar Laboratories, Inc.**

**Semivolatile Organic Compounds by EPA Method 8270C**

4-Nitroaniline	ND	300	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		78.9 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		87.5 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		86.3 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		98.1 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		93.2 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		105 %	29.1-130		"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 16:57

**B-9-10.0**  
**T180384-11 (Soil)**

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	8020135	02/01/18	02/02/18	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		92.4 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

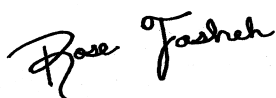
Antimony	ND	3.0	mg/kg	1	8020228	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
<b>Barium</b>	<b>55</b>	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>19</b>	2.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>8.3</b>	2.0	"	"	"	"	"	"	
<b>Copper</b>	<b>11</b>	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>18</b>	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
<b>Vanadium</b>	<b>23</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>33</b>	1.0	"	"	"	"	"	"	

**Cold Vapor Extraction EPA 7470/7471**

Mercury	ND	0.10	mg/kg	1	8020227	02/02/18	02/05/18	EPA 7471A Soil	
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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 16:57

**B-9-10.0**  
**T180384-11 (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**

PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		62.4 %	35-140		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		60.5 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.9	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	
Chloromethane	ND	1.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.9	"	"	"	"	"	"	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	

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Rose Fasheh, Project Manager





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Northgate Environmental Management -- Laguna Hills  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-9-10.0**  
**T180384-11 (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**

1,4-Dichlorobenzene	ND	1.9	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
Methylene chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-9-10.0**  
**T180384-11 (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**

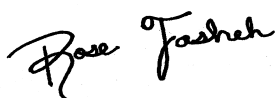
1,2,4-Trimethylbenzene	ND	1.9	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
Vinyl chloride	ND	1.9	"	"	"	"	"	"	
Benzene	ND	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.8	"	"	"	"	"	"	
o-Xylene	ND	1.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		111 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.4 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-9-10.0**  
**T180384-11 (Soil)**

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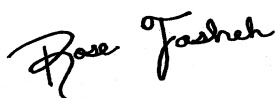
**SunStar Laboratories, Inc.**

**Semivolatile Organic Compounds by EPA Method 8270C**

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-9-10.0**  
**T180384-11 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol		91.1 %	15-121		"	"	"	"
Surrogate: Phenol-d6		77.8 %	24-113		"	"	"	"
Surrogate: Nitrobenzene-d5		78.3 %	21.3-119		"	"	"	"
Surrogate: 2-Fluorobiphenyl		95.5 %	32.4-102		"	"	"	"
Surrogate: 2,4,6-Tribromophenol		81.3 %	18.1-105		"	"	"	"
Surrogate: Terphenyl-d14		113 %	29.1-130		"	"	"	"

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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 16:57

**B-9-20.0**  
**T180384-13 (Soil)**

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	8020135	02/01/18	02/02/18	EPA 8015B	
<b>C13-C28 (DRO)</b>	<b>31</b>	10	"	"	"	"	"	"	
<b>C29-C40 (MORO)</b>	<b>20</b>	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		90.3 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

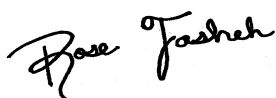
Antimony	ND	2.7	mg/kg	1	8020228	02/02/18	02/05/18	EPA 6010B	
Silver	ND	1.8	"	"	"	"	"	"	
Arsenic	ND	4.5	"	"	"	"	"	"	
<b>Barium</b>	<b>79</b>	0.91	"	"	"	"	"	"	
Beryllium	ND	0.91	"	"	"	"	"	"	
<b>Cadmium</b>	<b>2.6</b>	1.8	"	"	"	"	"	"	
<b>Chromium</b>	<b>14</b>	1.8	"	"	"	"	"	"	
<b>Cobalt</b>	<b>11</b>	1.8	"	"	"	"	"	"	
<b>Copper</b>	<b>8.6</b>	0.91	"	"	"	"	"	"	
Lead	ND	2.7	"	"	"	"	"	"	
Molybdenum	ND	4.5	"	"	"	"	"	"	
<b>Nickel</b>	<b>16</b>	1.8	"	"	"	"	"	"	
Selenium	ND	4.5	"	"	"	"	"	"	
Thallium	ND	1.8	"	"	"	"	"	"	
<b>Vanadium</b>	<b>19</b>	4.5	"	"	"	"	"	"	
<b>Zinc</b>	<b>28</b>	0.91	"	"	"	"	"	"	

**Cold Vapor Extraction EPA 7470/7471**

Mercury	ND	0.10	mg/kg	1	8020227	02/02/18	02/05/18	EPA 7471A Soil	
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Rose Fasheh, Project Manager

Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-9-20.0**  
**T180384-13 (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**

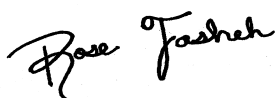
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		77.5 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		70.7 %	35-140		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	2.0	ug/kg	1	8013121	02/01/18	02/03/18	EPA 8260B/5035	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Chloroform	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-9-20.0**  
**T180384-13 (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**

1,4-Dichlorobenzene	ND	2.0	ug/kg	1	8013121	02/01/18	02/03/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
Methylene chloride	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	
Styrene	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
Trichloroethene	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/08/18 16:57

**B-9-20.0**  
**T180384-13 (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**

1,2,4-Trimethylbenzene	ND	2.0	ug/kg	1	8013121	02/01/18	02/03/18	EPA 8260B/5035	
Vinyl chloride	ND	2.0	"	"	"	"	"	"	
Benzene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	4.0	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		91.4 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.9 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	95.7-135		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



Northgate Environmental Management -- Laguna Hills  
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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

**B-9-20.0**  
**T180384-13 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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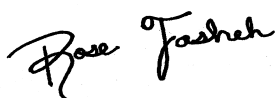
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**Semivolatile Organic Compounds by EPA Method 8270C**

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Reported:  
02/08/18 16:57

**B-9-20.0**  
**T180384-13 (Soil)**

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

**Semivolatile Organic Compounds by EPA Method 8270C**

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C
Isophorone	ND	300	"	"	"	"	"	"
2-Methylphenol	ND	1000	"	"	"	"	"	"
4-Methylphenol	ND	1000	"	"	"	"	"	"
Naphthalene	ND	300	"	"	"	"	"	"
2-Nitroaniline	ND	300	"	"	"	"	"	"
3-Nitroaniline	ND	300	"	"	"	"	"	"
4-Nitroaniline	ND	300	"	"	"	"	"	"
Nitrobenzene	ND	1000	"	"	"	"	"	"
2-Nitrophenol	ND	1000	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"
Phenanthrene	ND	300	"	"	"	"	"	"
Azobenzene	ND	300	"	"	"	"	"	"
Pyridine	ND	300	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"
Surrogate: 2-Fluorophenol		84.7 %	15-121		"	"	"	"
Surrogate: Phenol-d6		64.6 %	24-113		"	"	"	"
Surrogate: Nitrobenzene-d5		72.8 %	21.3-119		"	"	"	"
Surrogate: 2-Fluorobiphenyl		86.0 %	32.4-102		"	"	"	"
Surrogate: 2,4,6-Tribromophenol		80.5 %	18.1-105		"	"	"	"
Surrogate: Terphenyl-d14		120 %	29.1-130		"	"	"	"

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Project Manager: Derrick Willis

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### 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 8020135 - EPA 3550B GC

##### Blank (8020135-BLK1)

Prepared: 02/01/18 Analyzed: 02/02/18

C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	83.0		"	98.0		84.6	65-135			

##### LCS (8020135-BS1)

Prepared: 02/01/18 Analyzed: 02/02/18

C13-C28 (DRO)	480	10	mg/kg	490		97.2	75-125			
Surrogate: <i>p</i> -Terphenyl	84.2		"	98.0		85.8	65-135			

##### LCS Dup (8020135-BSD1)

Prepared: 02/01/18 Analyzed: 02/02/18

C13-C28 (DRO)	480	10	mg/kg	490		98.3	75-125	1.09	20	
Surrogate: <i>p</i> -Terphenyl	88.2		"	98.0		90.0	65-135			

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02/08/18 16:57

### 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 8020228 - EPA 3050B

##### Blank (8020228-BLK1)

Prepared: 02/02/18 Analyzed: 02/05/18

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	2.0	"
Vanadium	ND	5.0	"
Zinc	ND	1.0	"

##### LCS (8020228-BS1)

Prepared: 02/02/18 Analyzed: 02/05/18

Arsenic	107	5.0	mg/kg	100	107	75-125
Barium	112	1.0	"	100	112	75-125
Cadmium	111	2.0	"	100	111	75-125
Chromium	111	2.0	"	100	111	75-125
Lead	116	3.0	"	100	116	75-125

##### Matrix Spike (8020228-MS1)

Source: T180384-02

Prepared: 02/02/18 Analyzed: 02/05/18

Arsenic	84.6	5.0	mg/kg	98.0	ND	86.3	75-125
Barium	170	1.0	"	98.0	74.9	96.7	75-125
Cadmium	91.7	2.0	"	98.0	0.897	92.6	75-125
Chromium	117	2.0	"	98.0	21.8	96.9	75-125
Lead	114	3.0	"	98.0	ND	116	75-125

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### 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 8020228 - EPA 3050B

##### Matrix Spike Dup (8020228-MSD1)

Source: T180384-02

Prepared: 02/02/18 Analyzed: 02/05/18

Arsenic	87.7	5.0	mg/kg	97.1	ND	90.3	75-125	3.56	20	
Barium	199	1.0	"	97.1	74.9	128	75-125	16.0	20	QR-04
Cadmium	91.3	2.0	"	97.1	0.897	93.1	75-125	0.428	20	
Chromium	115	2.0	"	97.1	21.8	96.2	75-125	1.39	20	
Lead	105	3.0	"	97.1	ND	108	75-125	7.67	20	

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### 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 8020227 - EPA 7471A Soil

##### Blank (8020227-BLK1)

Prepared: 02/02/18 Analyzed: 02/05/18

Mercury	ND	0.10	mg/kg							
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##### LCS (8020227-BS1)

Prepared: 02/02/18 Analyzed: 02/05/18

Mercury	0.388	0.10	mg/kg	0.417		93.1	80-120			
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##### Matrix Spike (8020227-MS1)

Source: T180384-02

Prepared: 02/02/18 Analyzed: 02/05/18

Mercury	0.374	0.10	mg/kg	0.391	ND	95.8	75-125			
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##### Matrix Spike Dup (8020227-MSD1)

Source: T180384-02

Prepared: 02/02/18 Analyzed: 02/05/18

Mercury	0.385	0.10	mg/kg	0.403	ND	95.4	75-125	2.71	20	
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Project Manager: Derrick Willis

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## 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 8020134 - EPA 3550 ECD/GCMS

##### Blank (8020134-BLK1)

Prepared: 02/01/18 Analyzed: 02/05/18

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	10	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	200	"							
Surrogate: Tetrachloro-meta-xylene	8.92		"	10.0		89.2	35-140			
Surrogate: Decachlorobiphenyl	8.62		"	10.0		86.2	35-140			

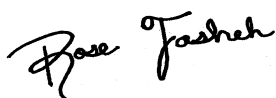
##### LCS (8020134-BS1)

Prepared: 02/01/18 Analyzed: 02/05/18

gamma-BHC (Lindane)	34.2	5.0	ug/kg	40.0		85.5	40-120			
Heptachlor	34.1	5.0	"	40.0		85.2	40-120			
Aldrin	32.0	5.0	"	40.0		80.0	40-120			
Dieldrin	32.6	5.0	"	40.0		81.5	40-120			
Endrin	32.7	5.0	"	40.0		81.9	40-120			
4,4'-DDT	30.7	5.0	"	40.0		76.8	33-147			
Surrogate: Tetrachloro-meta-xylene	8.47		"	10.0		84.7	35-140			
Surrogate: Decachlorobiphenyl	8.36		"	10.0		83.6	35-140			

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Project Manager: Derrick Willis

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### 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 8020134 - EPA 3550 ECD/GCMS

##### LCS Dup (8020134-BSD1)

Prepared: 02/01/18 Analyzed: 02/05/18

gamma-BHC (Lindane)	32.4	5.0	ug/kg	40.0		81.1	40-120	5.30	30	
Heptachlor	32.6	5.0	"	40.0		81.5	40-120	4.51	30	
Aldrin	30.6	5.0	"	40.0		76.4	40-120	4.58	30	
Dieldrin	31.1	5.0	"	40.0		77.7	40-120	4.85	30	
Endrin	31.1	5.0	"	40.0		77.8	40-120	5.11	30	
4,4'-DDT	28.6	5.0	"	40.0		71.5	33-147	7.13	30	
Surrogate: Tetrachloro-meta-xylene	8.06		"	10.0		80.6	35-140			
Surrogate: Decachlorobiphenyl	8.56		"	10.0		85.6	35-140			

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**Polychlorinated Biphenyls by EPA Method 8082 - 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 8020133 - EPA 3550 ECD/GCMS**

**Blank (8020133-BLK1)**

Prepared: 02/01/18 Analyzed: 02/02/18

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	7.49		"	10.0		74.9	35-140			
Surrogate: Decachlorobiphenyl	7.46		"	10.0		74.6	35-140			

**LCS (8020133-BS1)**

Prepared: 02/01/18 Analyzed: 02/02/18

PCB-1016	63.7	10	ug/kg	100		63.7	40-130			
PCB-1260	65.7	10	"	100		65.7	40-130			
Surrogate: Tetrachloro-meta-xylene	7.72		"	10.0		77.2	35-140			
Surrogate: Decachlorobiphenyl	7.73		"	10.0		77.3	35-140			

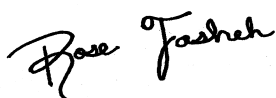
**LCS Dup (8020133-BS1)**

Prepared: 02/01/18 Analyzed: 02/02/18

PCB-1016	69.0	10	ug/kg	100		69.0	40-130	7.99	30	
PCB-1260	61.7	10	"	100		61.7	40-130	6.28	30	
Surrogate: Tetrachloro-meta-xylene	7.48		"	10.0		74.8	35-140			
Surrogate: Decachlorobiphenyl	7.15		"	10.0		71.5	35-140			

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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 8013121 - EPA 5035 GCMS

##### Blank (8013121-BLK1)

Prepared: 01/31/18 Analyzed: 02/01/18

Bromobenzene	ND	2.0	ug/kg
Bromochloromethane	ND	2.0	"
Bromodichloromethane	ND	2.0	"
Bromoform	ND	2.0	"
Bromomethane	ND	2.0	"
n-Butylbenzene	ND	2.0	"
sec-Butylbenzene	ND	2.0	"
tert-Butylbenzene	ND	2.0	"
Carbon tetrachloride	ND	2.0	"
Chlorobenzene	ND	2.0	"
Chloroethane	ND	2.0	"
Chloroform	ND	2.0	"
Chloromethane	ND	2.0	"
2-Chlorotoluene	ND	2.0	"
4-Chlorotoluene	ND	2.0	"
Dibromochloromethane	ND	2.0	"
1,2-Dibromo-3-chloropropane	ND	4.0	"
1,2-Dibromoethane (EDB)	ND	2.0	"
Dibromomethane	ND	2.0	"
1,2-Dichlorobenzene	ND	2.0	"
1,3-Dichlorobenzene	ND	2.0	"
1,4-Dichlorobenzene	ND	2.0	"
Dichlorodifluoromethane	ND	2.0	"
1,1-Dichloroethane	ND	2.0	"
1,2-Dichloroethane	ND	2.0	"
1,1-Dichloroethene	ND	2.0	"
cis-1,2-Dichloroethene	ND	2.0	"
trans-1,2-Dichloroethene	ND	2.0	"
1,2-Dichloropropane	ND	2.0	"
1,3-Dichloropropane	ND	2.0	"
2,2-Dichloropropane	ND	2.0	"
1,1-Dichloropropene	ND	2.0	"
cis-1,3-Dichloropropene	ND	2.0	"
trans-1,3-Dichloropropene	ND	2.0	"
Hexachlorobutadiene	ND	2.0	"
Isopropylbenzene	ND	2.0	"

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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 8013121 - EPA 5035 GCMS

#### Blank (8013121-BLK1)

Prepared: 01/31/18 Analyzed: 02/01/18

p-Isopropyltoluene	ND	2.0	ug/kg							
Methylene chloride	ND	2.0	"							
Naphthalene	ND	2.0	"							
n-Propylbenzene	ND	2.0	"							
Styrene	ND	2.0	"							
1,1,2,2-Tetrachloroethane	ND	2.0	"							
1,1,1,2-Tetrachloroethane	ND	2.0	"							
Tetrachloroethene	ND	2.0	"							
1,2,3-Trichlorobenzene	ND	2.0	"							
1,2,4-Trichlorobenzene	ND	2.0	"							
1,1,2-Trichloroethane	ND	2.0	"							
1,1,1-Trichloroethane	ND	2.0	"							
Trichloroethene	ND	2.0	"							
Trichlorofluoromethane	ND	2.0	"							
1,2,3-Trichloropropane	ND	2.0	"							
1,3,5-Trimethylbenzene	ND	2.0	"							
1,2,4-Trimethylbenzene	ND	2.0	"							
Vinyl chloride	ND	2.0	"							
Benzene	ND	2.0	"							
Toluene	ND	2.0	"							
Ethylbenzene	ND	2.0	"							
m,p-Xylene	ND	4.0	"							
o-Xylene	ND	2.0	"							

Surrogate: Toluene-d8	41.6		"	39.6		105	85.5-116
Surrogate: 4-Bromofluorobenzene	35.4		"	39.6		89.4	81.2-123
Surrogate: Dibromofluoromethane	41.9		"	39.6		106	95.7-135

#### LCS (8013121-BS1)

Prepared: 01/31/18 Analyzed: 02/01/18

Chlorobenzene	30.0	2.0	ug/kg	40.0		75.0	75-125
1,1-Dichloroethene	48.5	2.0	"	40.0		121	75-125
Trichloroethene	36.2	2.0	"	40.0		90.4	75-125
Benzene	38.3	2.0	"	40.0		95.6	75-125
Toluene	33.7	2.0	"	40.0		84.3	75-125
Surrogate: Toluene-d8	42.1		"	40.0		105	85.5-116
Surrogate: 4-Bromofluorobenzene	38.3		"	40.0		95.7	81.2-123
Surrogate: Dibromofluoromethane	43.6		"	40.0		109	95.7-135

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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 Limits	RPD	RPD Limit	Notes
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#### Batch 8013121 - EPA 5035 GCMS

##### LCS Dup (8013121-BSD1)

Prepared: 01/31/18 Analyzed: 02/01/18

Chlorobenzene	36.3	2.0	ug/kg	39.6		91.5	75-125	18.8	20
1,1-Dichloroethene	47.8	2.0	"	39.6		121	75-125	1.49	20
Trichloroethene	42.8	2.0	"	39.6		108	75-125	16.7	20
Benzene	46.4	2.0	"	39.6		117	75-125	19.2	20
Toluene	40.2	2.0	"	39.6		101	75-125	17.4	20
Surrogate: Toluene-d8	41.9		"	39.6		106	85.5-116		
Surrogate: 4-Bromofluorobenzene	36.4		"	39.6		91.9	81.2-123		
Surrogate: Dibromofluoromethane	42.2		"	39.6		106	95.7-135		

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## Semivolatile Organic Compounds by EPA Method 8270C - 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 8020137 - EPA 3550 ECD/GCMS

Blank (8020137-BLK1)

Prepared: 02/01/18 Analyzed: 02/05/18

Carbazole	ND	300	ug/kg
Phenol	ND	1000	"
Aniline	ND	300	"
2-Chlorophenol	ND	1000	"
1,4-Dichlorobenzene	ND	300	"
N-Nitrosodi-n-propylamine	ND	300	"
1,2,4-Trichlorobenzene	ND	300	"
4-Chloro-3-methylphenol	ND	1000	"
1-Methylnaphthalene	ND	300	"
2-Methylnaphthalene	ND	300	"
Acenaphthene	ND	300	"
4-Nitrophenol	ND	1000	"
2,4-Dinitrotoluene	ND	300	"
Pentachlorophenol	ND	1000	"
Pyrene	ND	300	"
Acenaphthylene	ND	300	"
Anthracene	ND	300	"
Benzo (a) anthracene	ND	300	"
Benzo (b) fluoranthene	ND	300	"
Benzo (k) fluoranthene	ND	300	"
Benzo (g,h,i) perylene	ND	1000	"
Benzo (a) pyrene	ND	300	"
Benzyl alcohol	ND	300	"
Bis(2-chloroethoxy)methane	ND	300	"
Bis(2-chloroethyl)ether	ND	300	"
Bis(2-chloroisopropyl)ether	ND	300	"
Bis(2-ethylhexyl)phthalate	ND	300	"
4-Bromophenyl phenyl ether	ND	300	"
Butyl benzyl phthalate	ND	300	"
4-Chloroaniline	ND	300	"
2-Chloronaphthalene	ND	300	"
4-Chlorophenyl phenyl ether	ND	300	"
Chrysene	ND	300	"
Dibenz (a,h) anthracene	ND	300	"
Dibenzofuran	ND	300	"
Di-n-butyl phthalate	ND	300	"

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02/08/18 16:57

## Semivolatile Organic Compounds by EPA Method 8270C - 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 8020137 - EPA 3550 ECD/GCMS

#### Blank (8020137-BLK1)

Prepared: 02/01/18 Analyzed: 02/05/18

1,2-Dichlorobenzene	ND	300	ug/kg
1,3-Dichlorobenzene	ND	300	"
2,4-Dichlorophenol	ND	1000	"
Diethyl phthalate	ND	300	"
2,4-Dimethylphenol	ND	1000	"
Dimethyl phthalate	ND	300	"
4,6-Dinitro-2-methylphenol	ND	1000	"
2,4-Dinitrophenol	ND	1000	"
2,6-Dinitrotoluene	ND	1000	"
Di-n-octyl phthalate	ND	300	"
Fluoranthene	ND	300	"
Fluorene	ND	300	"
Hexachlorobenzene	ND	1500	"
Hexachlorobutadiene	ND	300	"
Hexachlorocyclopentadiene	ND	1000	"
Hexachloroethane	ND	300	"
Indeno (1,2,3-cd) pyrene	ND	300	"
Isophorone	ND	300	"
2-Methylphenol	ND	1000	"
4-Methylphenol	ND	1000	"
Naphthalene	ND	300	"
2-Nitroaniline	ND	300	"
3-Nitroaniline	ND	300	"
4-Nitroaniline	ND	300	"
Nitrobenzene	ND	1000	"
2-Nitrophenol	ND	1000	"
N-Nitrosodimethylamine	ND	300	"
N-Nitrosodiphenylamine	ND	300	"
2,3,5,6-Tetrachlorophenol	ND	300	"
2,3,4,6-Tetrachlorophenol	ND	300	"
Phenanthrene	ND	300	"
Azobenzene	ND	300	"
Pyridine	ND	300	"
2,4,5-Trichlorophenol	ND	1000	"
2,4,6-Trichlorophenol	ND	1000	"

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## Semivolatile Organic Compounds by EPA Method 8270C - 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 8020137 - EPA 3550 ECD/GCMS

#### Blank (8020137-BLK1)

Prepared: 02/01/18 Analyzed: 02/05/18

Surrogate: 2-Fluorophenol	2550		ug/kg	3250		78.5	15-121			
Surrogate: Phenol-d6	2470		"	3250		76.0	24-113			
Surrogate: Nitrobenzene-d5	2510		"	3250		77.3	21.3-119			
Surrogate: 2-Fluorobiphenyl	2700		"	3250		83.3	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2880		"	3250		88.8	18.1-105			
Surrogate: Terphenyl-d14	3500		"	3250		108	29.1-130			

#### LCS (8020137-BS1)

Prepared: 02/01/18 Analyzed: 02/05/18

Phenol	2390	1000	ug/kg	3240		73.9	34-114			
2-Chlorophenol	2400	1000	"	3240		74.2	34-114			
1,4-Dichlorobenzene	2380	300	"	3240		73.5	34-114			
N-Nitrosodi-n-propylamine	2870	300	"	3240		88.6	30-110			
1,2,4-Trichlorobenzene	2450	300	"	3240		75.6	39-119			
4-Chloro-3-methylphenol	2120	1000	"	3240		65.4	50-130			
Acenaphthene	2530	300	"	3240		78.0	34-114			
Pentachlorophenol	1930	1000	"	3240		59.7	50-130			
Pyrene	2040	300	"	3240		62.9	30-110			
Surrogate: 2-Fluorophenol	2410		"	3240		74.4	15-121			
Surrogate: Phenol-d6	2550		"	3240		78.9	24-113			
Surrogate: Nitrobenzene-d5	2940		"	3240		91.0	21.3-119			
Surrogate: 2-Fluorobiphenyl	2660		"	3240		82.3	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2820		"	3240		87.2	18.1-105			
Surrogate: Terphenyl-d14	3310		"	3240		102	29.1-130			

#### LCS Dup (8020137-BSD1)

Prepared: 02/01/18 Analyzed: 02/05/18

Phenol	1860	1000	ug/kg	3330		55.9	34-114	24.7	42	
2-Chlorophenol	1990	1000	"	3330		59.7	34-114	18.7	40	
1,4-Dichlorobenzene	2060	300	"	3330		61.8	34-114	14.3	28	
N-Nitrosodi-n-propylamine	2220	300	"	3330		66.5	30-110	25.6	38	
1,2,4-Trichlorobenzene	2250	300	"	3330		67.4	39-119	8.48	28	
4-Chloro-3-methylphenol	2550	1000	"	3330		76.5	50-130	18.6	42	
Acenaphthene	2440	300	"	3330		73.3	34-114	3.34	31	
Pentachlorophenol	2160	1000	"	3330		65.0	50-130	11.4	50	
Pyrene	2090	300	"	3330		62.7	30-110	2.56	31	
Surrogate: 2-Fluorophenol	2230		"	3330		66.9	15-121			
Surrogate: Phenol-d6	2040		"	3330		61.1	24-113			

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### Semivolatile Organic Compounds by EPA Method 8270C - 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 8020137 - EPA 3550 ECD/GCMS

##### LCS Dup (8020137-BSD1)

Prepared: 02/01/18 Analyzed: 02/05/18

Surrogate: Nitrobenzene-d5	2080		ug/kg	3330		62.3	21.3-119			
Surrogate: 2-Fluorobiphenyl	2480		"	3330		74.4	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2880		"	3330		86.4	18.1-105			
Surrogate: Terphenyl-d14	3330		"	3330		100	29.1-130			

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949.297.5027 Fax

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/08/18 16:57

### Notes and Definitions

- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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.
- QR-04 The percent recovery and/or RPD was outside acceptance criteria. Results accepted based upon percent recovery results in duplicate QC sample and the CCV and CCB 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.*

Rose Fasheh, Project Manager



**SunStar  
Laboratories**

**Chain of Custody Record**

25712 Commerce Centre Drive, Lake Forest, CA 92630  
949-297-5020

Client: Northgate Environmental

Address: 24411 Ridge Route #130, Laguna Hills

Phone: (949) 716-0050 Fax: (949) 716-0055

Project Manager: Derrick Willis

Date: 1-30-2018

Page: 1 or     

Project Name: 3rd a Fairfax

Collector: Dana Brown

Client Project #: 2047.15

Batch #: 1180384

EDF #:     

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	8082 Rb	8081 OCPs	Laboratory ID #	Comments/Preservative	Total # of containers
B-7-1.0	1-30-18	14:14	AG	V	X			X					X		X				
B-7-5.0		14:25	SO	V+GS	X			X					X		X				
B-7-10.0		14:50		V+SC															
B-7-15.0		14:53			X			X					X		X				
B-7-20.0		14:56			X			X					X		X				
B-7-25.0		15:04																	
B-7-30.0		15:07																	
B-9-1.0		16:30		V+GS	X			X					X		X				
B-9-5.0		16:40		V+SC															
B-9-10.0		16:43			X			X					X		X				
B-9-15.0		16:50																	
B-9-20.0		16:57			X			X					X		X				
B-9-25.0		17:05																	
B-9-30.0		17:08																	
Relinquished by: (signature) <u>[Signature]</u>			Date / Time	Received by: (signature)	Date / Time	Total # of containers													
Relinquished by: (signature)			Date / Time	Received by: (signature)	Date / Time	Chain of Custody seals Y/N/NA													
Relinquished by: (signature)			Date / Time	Received by: (signature)	Date / Time	Seals intact? Y/N/NA													
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: <u>    </u>													

Sample disposal instructions: Disposal @ \$2.00 each

Return to client

Pickup

COC 172252



**SunStar  
Laboratories**

**Chain of Custody Record**

25712 Commerce Centre Drive, Lake Forest, CA 92630  
949-297-5020

Client: Northgate Environmental  
Address: 24411 Ridge Route #130, Laguna Hills  
Phone: (949) 716-0050 Fax: (949) 716-0055  
Project Manager: Derrick Willis

Date: 1-30-2018 Page: 1 of 1  
Project Name: 3rd a Fairfax  
Collector: Dana Brown Client Project #: 2047.15  
Batch #: \_\_\_\_\_ EDF #: \_\_\_\_\_

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	8082 PCBs	8081 OCPs	Laboratory ID #	Comments/Preservative	Total # of containers	Notes		
B-7-1.0	1-30-18	14:14	AG	V	X			X				X	X		X	X			2			
B-7-5.0		14:25	SO	V+GS	X							X	X		X				2			
B-7-10.0		14:50		V+SC	X							X	X		X				2			
B-7-15.0		14:53			X							X	X		X				2			
B-7-20.0		14:56			X							X	X		X				2			
B-7-25.0		15:04																	2			
B-7-30.0		15:07		V															2			
B-9-1.0		16:30		V+GS	X							X	X		X	X			2			
B-9-5.0		16:40		V+SC	X							X	X		X				2			
B-9-10.0		16:43			X							X	X		X				2			
B-9-15.0		16:50																	2			
B-9-20.0		16:57																	2			
B-9-25.0		17:05			X							X	X		X				2			
B-9-30.0		17:08																	2			
Relinquished by: (signature) <u>Dana Brown</u> 1-31-18 14:20				Received by: (signature) <u>[Signature]</u>	Date / Time	Total # of containers															100	Notes
Relinquished by: (signature)				Received by: (signature)	Date / Time	Chain of Custody seals Y/N/NA																
Relinquished by: (signature)				Received by: (signature)	Date / Time	Seals intact? Y/N/NA																
Relinquished by: (signature)				Received by: (signature)	Date / Time	Received good condition/cold																
Relinquished by: (signature)				Received by: (signature)	Date / Time	Turn around time: <u>5 - 0ey</u>																

Sample disposal instructions: Disposal @ \$2.00 each

Return to client

Pickup

COC 172252



## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T180384

Client Name: Northgate Project: 3rd & Fairfax

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: Chris Date/Time Courier Received: 1-31-18 14:20

Lab Received by: Sunny Date/Time Lab Received: 1-31-18 16:25

Total number of coolers received: 0

Temperature: Cooler #1	2.6 °C +/- the CF (- 0.2°C) = 2.4	°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
<b>Temperature criteria = ≤ 6°C (no frozen containers)</b>		
Within criteria?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>If NO:</b>		
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> 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: JLZ-T-18

Comments:

---

**WORK ORDER**

**T180384**

**Client:** Northgate Environmental Management -- Laguna  
**Project:** 3rd & Fairfax

**Project Manager:** Rose Fasheh  
**Project Number:** 2047.15

**Report To:**

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

Date Due: 02/08/18 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 01/31/18 16:25

Logged In By: Joey Himes

Date Logged In: 02/01/18 08:54

Samples Received at: 2.6°C

Custody Seals No Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
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<b>T180384-01 TB-2018.01.30-C [Water] Sampled 01/30/18 14:14 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
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**T180384-02 B-7-1.0 [Soil] Sampled 01/30/18 14:25 (GMT-08:00) Pacific Time (US &**

6010 Title 22	02/08/18 15:00	5	07/29/18 14:25
8015 Carbon Chain	02/08/18 15:00	5	02/13/18 14:25
8081 Pesticides	02/08/18 15:00	5	02/13/18 14:25
8082 PCB	02/08/18 15:00	5	02/13/18 14:25
8260 5035	02/08/18 15:00	5	02/13/18 14:25
8270C	02/08/18 15:00	5	02/13/18 14:25

**T180384-03 B-7-5.0 [Soil] Sampled 01/30/18 14:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES]**

**T180384-04 B-7-10.0 [Soil] Sampled 01/30/18 14:53 (GMT-08:00) Pacific Time (US &**

6010 Title 22	02/08/18 15:00	5	07/29/18 14:53
8015 Carbon Chain	02/08/18 15:00	5	02/13/18 14:53
8082 PCB	02/08/18 15:00	5	02/13/18 14:53
8260 5035	02/08/18 15:00	5	02/13/18 14:53
8270C	02/08/18 15:00	5	02/13/18 14:53

**WORK ORDER**

**T180384**

<b>Client:</b> Northgate Environmental Management -- Laguna	<b>Project Manager:</b> Rose Fasheh
<b>Project:</b> 3rd & Fairfax	<b>Project Number:</b> 2047.15

Analysis	Due	TAT	Expires	Comments
<b>T180384-05 B-7-15.0 [Soil] Sampled 01/30/18 14:56 (GMT-08:00) Pacific Time HOLD</b> (US & [NO ANALYSES]				
<b>T180384-06 B-7-20.0 [Soil] Sampled 01/30/18 14:59 (GMT-08:00) Pacific Time</b> (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 14:59	
8015 Carbon Chain	02/08/18 15:00	5	02/13/18 14:59	
8082 PCB	02/08/18 15:00	5	02/13/18 14:59	
8260 5035	02/08/18 15:00	5	02/13/18 14:59	
8270C	02/08/18 15:00	5	02/13/18 14:59	
<b>T180384-07 B-7-25.0 [Soil] Sampled 01/30/18 15:04 (GMT-08:00) Pacific Time HOLD</b> (US & [NO ANALYSES]				
<b>T180384-08 B-7-30.0 [Soil] Sampled 01/30/18 15:07 (GMT-08:00) Pacific Time HOLD</b> (US & [NO ANALYSES]				
<b>T180384-09 B-9-1.0 [Soil] Sampled 01/30/18 16:30 (GMT-08:00) Pacific Time</b> (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 16:30	
8015 Carbon Chain	02/08/18 15:00	5	02/13/18 16:30	
8081 Pesticides	02/08/18 15:00	5	02/13/18 16:30	
8082 PCB	02/08/18 15:00	5	02/13/18 16:30	
8260 5035	02/08/18 15:00	5	02/13/18 16:30	
8270C	02/08/18 15:00	5	02/13/18 16:30	
<b>T180384-10 B-9-5.0 [Soil] Sampled 01/30/18 16:40 (GMT-08:00) Pacific Time HOLD</b> (US & [NO ANALYSES]				
<b>T180384-11 B-9-10.0 [Soil] Sampled 01/30/18 16:43 (GMT-08:00) Pacific Time</b> (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 16:43	
8015 Carbon Chain	02/08/18 15:00	5	02/13/18 16:43	
8082 PCB	02/08/18 15:00	5	02/13/18 16:43	
8260 5035	02/08/18 15:00	5	02/13/18 16:43	
8270C	02/08/18 15:00	5	02/13/18 16:43	

**WORK ORDER**

**T180384**

**Client:** Northgate Environmental Management -- Laguna      **Project Manager:** Rose Fasheh  
**Project:** 3rd & Fairfax      **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
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**T180384-12 B-9-15.0 [Soil] Sampled 01/30/18 16:50 (GMT-08:00) Pacific Time HOLD**  
(US &  
[NO ANALYSES]

**T180384-13 B-9-20.0 [Soil] Sampled 01/30/18 16:57 (GMT-08:00) Pacific Time**  
(US &

6010 Title 22	02/08/18 15:00	5	07/29/18 16:57
8015 Carbon Chain	02/08/18 15:00	5	02/13/18 16:57
8082 PCB	02/08/18 15:00	5	02/13/18 16:57
8260 5035	02/08/18 15:00	5	02/13/18 16:57
8270C	02/08/18 15:00	5	02/13/18 16:57

**T180384-14 B-9-25.0 [Soil] Sampled 01/30/18 17:05 (GMT-08:00) Pacific Time HOLD**  
(US &  
[NO ANALYSES]

**T180384-15 B-9-30.0 [Soil] Sampled 01/30/18 17:08 (GMT-08:00) Pacific Time HOLD**  
(US &  
[NO ANALYSES]

**Analysis groups included in this work order**

6010 Title 22

subgroup 6010B T22      7470/71 Hg



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

12 February 2018

Derrick Willis  
Northgate Environmental Management -- Laguna Hills  
24411 Ridge Route Drive, Suite 130  
Laguna Hills, CA 92653  
RE: 3rd & Fairfax

Enclosed are the results of analyses for samples received by the laboratory on 02/01/18 12:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rose Fasheh  
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: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/12/18 16:21

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-6-10.0	T180397-01	Air	01/31/18 15:06	02/01/18 12:35
B-15-25.0	T180397-02	Air	01/31/18 16:10	02/01/18 12:35
B-4-15.0	T180397-03	Air	01/31/18 16:38	02/01/18 12:35

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/12/18 16:21

### DETECTIONS SUMMARY

**Sample ID:** B-6-10.0

**Laboratory ID:** T180397-01

#### Reporting

Analyte	Result	Limit	Units	Method	Notes
Isopropyl alcohol	3100	130	ug/m <sup>3</sup> Air	TO-15	TO-14
Cyclohexane	1100	170	ug/m <sup>3</sup> Air	TO-15	TO-14

**Sample ID:** B-15-25.0

**Laboratory ID:** T180397-02

#### Reporting

Analyte	Result	Limit	Units	Method	Notes
Trichloroethene	770	270	ug/m <sup>3</sup> Air	TO-15	TO-14

**Sample ID:** B-4-15.0

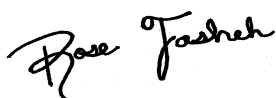
**Laboratory ID:** T180397-03

#### Reporting

Analyte	Result	Limit	Units	Method	Notes
Trichloroethene	17	5.5	ug/m <sup>3</sup> Air	TO-15	
Toluene	15	3.8	ug/m <sup>3</sup> Air	TO-15	
C6-C12 (GRO)	11600	7170	ug/m <sup>3</sup> Air	TO-3/TO-14 m	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/12/18 16:21

**B-6-10.0**  
**T180397-01 (Air)**

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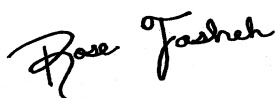
**SunStar Laboratories, Inc.**

**TO-15**

Acetone	ND	120	ug/m <sup>3</sup> Air	1.71	8020144	02/01/18	02/01/18	TO-15	TO-14
1,3-Butadiene	ND	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	390	"	"	"	"	"	"	TO-14
<b>Isopropyl alcohol</b>	<b>3100</b>	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	340	"	"	"	"	"	"	TO-14
Bromoform	ND	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	130	"	"	"	"	"	"	TO-14
Chloroform	ND	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	110	"	"	"	"	"	"	TO-14
<b>Cyclohexane</b>	<b>1100</b>	170	"	"	"	"	"	"	TO-14
Heptane	ND	210	"	"	"	"	"	"	TO-14
Hexane	ND	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	250	"	"	"	"	"	"	TO-14

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

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

Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

**Reported:**  
02/12/18 16:21

**B-6-10.0**  
**T180397-01 (Air)**

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

**TO-15**

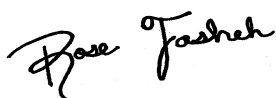
Methylene chloride	ND	180	ug/m <sup>3</sup> Air	1.71	8020144	02/01/18	02/01/18	TO-15	TO-14
Styrene	ND	220	"	"	"	"	"	"	TO-14
1,1,2,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	150	"	"	"	"	"	"	TO-14
Tetrachloroethene	ND	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	280	"	"	"	"	"	"	TO-14
Trichloroethene	ND	270	"	"	"	"	"	"	TO-14
Trichlorofluoromethane	ND	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	210	"	"	"	"	"	"	TO-14
Benzene	ND	160	"	"	"	"	"	"	TO-14
Toluene	ND	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	220	"	"	"	"	"	"	TO-14
m,p-Xylene	ND	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	220	"	"	"	"	"	"	TO-14

**Total Volatile Organic Compounds by TO-3 (modified)**

C6-C12 (GRO)	ND	7170	ug/m <sup>3</sup> Air	1.71	8020145	"	02/01/18	TO-3/TO-14 m
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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.*



Rose Fasheh, 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: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/12/18 16:21

**B-15-25.0**  
**T180397-02 (Air)**

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

**TO-15**

Acetone	ND	120	ug/m <sup>3</sup> Air	2.06	8020144	02/01/18	02/01/18	TO-15	TO-14
1,3-Butadiene	ND	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	ND	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	340	"	"	"	"	"	"	TO-14
Bromoform	ND	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	130	"	"	"	"	"	"	TO-14
Chloroform	ND	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	110	"	"	"	"	"	"	TO-14
Cyclohexane	ND	170	"	"	"	"	"	"	TO-14
Heptane	ND	210	"	"	"	"	"	"	TO-14
Hexane	ND	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	250	"	"	"	"	"	"	TO-14

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/12/18 16:21

**B-15-25.0**  
**T180397-02 (Air)**

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

**TO-15**

Methylene chloride	ND	180	ug/m <sup>3</sup> Air	2.06	8020144	02/01/18	02/01/18	TO-15	TO-14
Styrene	ND	220	"	"	"	"	"	"	TO-14
1,1,2,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	150	"	"	"	"	"	"	TO-14
Tetrachloroethene	ND	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	280	"	"	"	"	"	"	TO-14
<b>Trichloroethene</b>	<b>770</b>	270	"	"	"	"	"	"	TO-14
Trichlorofluoromethane	ND	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	210	"	"	"	"	"	"	TO-14
Benzene	ND	160	"	"	"	"	"	"	TO-14
Toluene	ND	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	220	"	"	"	"	"	"	TO-14
m,p-Xylene	ND	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	220	"	"	"	"	"	"	TO-14

**Total Volatile Organic Compounds by TO-3 (modified)**

C6-C12 (GRO)	ND	7170	ug/m <sup>3</sup> Air	2.06	8020145	"	02/01/18	TO-3/TO-14 m
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Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/12/18 16:21

**B-4-15.0**  
**T180397-03 (Air)**

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

**TO-15**

Acetone	ND	12	ug/m <sup>3</sup> Air	1.69	8020144	02/01/18	02/02/18	TO-15	
1,3-Butadiene	ND	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	13	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
Bromoform	ND	11	"	"	"	"	"	"	
Bromomethane	ND	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Chloroethane	ND	2.7	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	11	"	"	"	"	"	"	
Cyclohexane	ND	3.5	"	"	"	"	"	"	
Heptane	ND	4.2	"	"	"	"	"	"	
Hexane	ND	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	

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Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/12/18 16:21

**B-4-15.0**  
**T180397-03 (Air)**

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

**TO-15**

Methylene chloride	ND	3.5	ug/m³ Air	1.69	8020144	02/01/18	02/02/18	TO-15
Styrene	ND	4.3	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"
Tetrachloroethene	ND	6.9	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"
<b>Trichloroethene</b>	<b>17</b>	5.5	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"
Vinyl acetate	ND	3.6	"	"	"	"	"	"
Vinyl chloride	ND	2.6	"	"	"	"	"	"
1,4-Dioxane	ND	18	"	"	"	"	"	"
2-Butanone (MEK)	ND	15	"	"	"	"	"	"
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"
Benzene	ND	3.3	"	"	"	"	"	"
<b>Toluene</b>	<b>15</b>	3.8	"	"	"	"	"	"
Ethylbenzene	ND	4.4	"	"	"	"	"	"
m,p-Xylene	ND	8.8	"	"	"	"	"	"
o-Xylene	ND	4.4	"	"	"	"	"	"

Surrogate: 4-Bromofluorobenzene 80.8 % 40-160 " " " "

**Total Volatile Organic Compounds by TO-3 (modified)**

C6-C12 (GRO)	11600	7170	ug/m³ Air	1.69	8020145	"	02/01/18	TO-3/TO-14 m
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Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/12/18 16:21

**TO-15 - 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 8020144 - Canister Analysis**

**Blank (8020144-BL.K1)**

Prepared: 02/01/18 Analyzed: 02/02/18

Acetone	ND	12	ug/m <sup>3</sup> Air
1,3-Butadiene	ND	4.5	"
Carbon Disulfide	ND	3.2	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"
Isopropyl alcohol	ND	13	"
Bromodichloromethane	ND	6.8	"
Bromoform	ND	11	"
Bromomethane	ND	4.0	"
Carbon tetrachloride	ND	6.4	"
Chlorobenzene	ND	4.7	"
Chloroethane	ND	2.7	"
Chloroform	ND	5.0	"
Chloromethane	ND	11	"
Cyclohexane	ND	3.5	"
Heptane	ND	4.2	"
Hexane	ND	3.6	"
Dibromochloromethane	ND	8.7	"
1,2-Dibromoethane (EDB)	ND	7.8	"
1,2-Dichlorobenzene	ND	6.1	"
1,3-Dichlorobenzene	ND	6.1	"
1,4-Dichlorobenzene	ND	6.1	"
Dichlorodifluoromethane	ND	5.0	"
1,1-Dichloroethane	ND	4.1	"
1,2-Dichloroethane	ND	4.1	"
1,1-Dichloroethene	ND	4.0	"
cis-1,2-Dichloroethene	ND	4.0	"
trans-1,2-Dichloroethene	ND	4.0	"
1,2-Dichloropropane	ND	4.7	"
cis-1,3-Dichloropropene	ND	4.6	"
trans-1,3-Dichloropropene	ND	4.6	"
4-Ethyltoluene	ND	5.0	"
Methylene chloride	ND	3.5	"
Styrene	ND	4.3	"
1,1,2,2-Tetrachloroethane	ND	7.0	"
Tetrahydrofuran	ND	3.0	"

SunStar Laboratories, Inc.

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Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/12/18 16:21

**TO-15 - 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 8020144 - Canister Analysis**

**Blank (8020144-BLK1)**

Prepared: 02/01/18 Analyzed: 02/02/18

Tetrachloroethene	ND	6.9	ug/m <sup>3</sup> Air							
1,1,2-Trichloroethane	ND	5.6	"							
1,1,1-Trichloroethane	ND	5.6	"							
Trichloroethene	ND	5.5	"							
Trichlorofluoromethane	ND	5.7	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl acetate	ND	3.6	"							
Vinyl chloride	ND	2.6	"							
1,4-Dioxane	ND	18	"							
2-Butanone (MEK)	ND	15	"							
Methyl isobutyl ketone	ND	42	"							
Benzene	ND	3.3	"							
Toluene	ND	3.8	"							
Ethylbenzene	ND	4.4	"							
m,p-Xylene	ND	8.8	"							
o-Xylene	ND	4.4	"							
Surrogate: 4-Bromofluorobenzene	33.6		"	45.3		74.2	40-160			

**Duplicate (8020144-DUP1)**

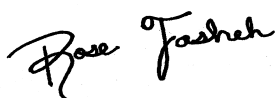
Source: T180354-01

Prepared: 02/01/18 Analyzed: 02/02/18

Acetone	ND	12	ug/m <sup>3</sup> Air		ND				30	
1,3-Butadiene	ND	4.5	"		ND				30	
Carbon Disulfide	ND	3.2	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"		ND				30	
Isopropyl alcohol	ND	13	"		ND				30	
Bromodichloromethane	ND	6.8	"		ND				30	
Bromoform	ND	11	"		ND				30	
Bromomethane	ND	4.0	"		ND				30	
Carbon tetrachloride	ND	6.4	"		ND				30	
Chlorobenzene	ND	4.7	"		ND				30	
Chloroethane	ND	2.7	"		ND				30	
Chloroform	ND	5.0	"		ND				30	
Chloromethane	ND	11	"		ND				30	
Cyclohexane	ND	3.5	"		ND				30	
Heptane	ND	4.2	"		ND				30	

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Reported:  
02/12/18 16:21

**TO-15 - 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 8020144 - Canister Analysis**

Duplicate (8020144-DUP1)	Source: T180354-01			Prepared: 02/01/18		Analyzed: 02/02/18	
Hexane	ND	3.6	ug/m <sup>3</sup> Air	ND			30
Dibromochloromethane	ND	8.7	"	ND			30
1,2-Dibromoethane (EDB)	ND	7.8	"	ND			30
1,2-Dichlorobenzene	ND	6.1	"	ND			30
1,3-Dichlorobenzene	ND	6.1	"	ND			30
1,4-Dichlorobenzene	ND	6.1	"	ND			30
Dichlorodifluoromethane	ND	5.0	"	ND			30
1,1-Dichloroethane	ND	4.1	"	ND			30
1,2-Dichloroethane	ND	4.1	"	ND			30
1,1-Dichloroethene	ND	4.0	"	ND			30
cis-1,2-Dichloroethene	ND	4.0	"	ND			30
trans-1,2-Dichloroethene	ND	4.0	"	ND			30
1,2-Dichloropropane	ND	4.7	"	ND			30
cis-1,3-Dichloropropene	ND	4.6	"	ND			30
trans-1,3-Dichloropropene	ND	4.6	"	ND			30
4-Ethyltoluene	ND	5.0	"	ND			30
Methylene chloride	ND	3.5	"	ND			30
Styrene	ND	4.3	"	ND			30
1,1,2,2-Tetrachloroethane	ND	7.0	"	ND			30
Tetrahydrofuran	ND	3.0	"	ND			30
Tetrachloroethene	110	6.9	"	111		1.04	30
1,1,2-Trichloroethane	ND	5.6	"	ND			30
1,1,1-Trichloroethane	ND	5.6	"	ND			30
Trichloroethene	13.0	5.5	"	13.4		3.13	30
Trichlorofluoromethane	ND	5.7	"	ND			30
1,3,5-Trimethylbenzene	ND	5.0	"	ND			30
1,2,4-Trimethylbenzene	ND	5.0	"	ND			30
Vinyl acetate	ND	3.6	"	ND			30
Vinyl chloride	ND	2.6	"	ND			30
1,4-Dioxane	ND	18	"	ND			30
2-Butanone (MEK)	ND	15	"	ND			30
Methyl isobutyl ketone	ND	42	"	ND			30
Benzene	1.96	3.3	"	ND			30
Toluene	9.49	3.8	"	10.1		6.49	30
Ethylbenzene	2.60	4.4	"	2.67		2.53	30
m,p-Xylene	6.14	8.8	"	6.40		4.26	30

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Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/12/18 16:21

**TO-15 - 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 8020144 - Canister Analysis**

Duplicate (8020144-DUP1)	Source: T180354-01			Prepared: 02/01/18 Analyzed: 02/02/18						
o-Xylene	4.20	4.4	ug/m <sup>3</sup> Air		4.34			3.13	30	
Surrogate: 4-Bromofluorobenzene	37.4		"	45.3		82.6	40-160			

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Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/12/18 16:21

### Total Volatile Organic Compounds by TO-3 (modified) - 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 8020145 - Canister Analysis

##### Blank (8020145-BLK1)

Prepared: 02/01/18 Analyzed: 02/02/18

C6-C12 (GRO) ND 7170 ug/m<sup>3</sup> Air

##### Duplicate (8020145-DUP1)

Source: T180397-01

Prepared: 02/01/18 Analyzed: 02/02/18

C6-C12 (GRO) ND 7170 ug/m<sup>3</sup> Air 1930 30

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Project: 3rd & Fairfax  
Project Number: 2047.15  
Project Manager: Derrick Willis

Reported:  
02/12/18 16:21

### Notes and Definitions

TO-14 TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14 and reporting limit has been adjusted accordingly.

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

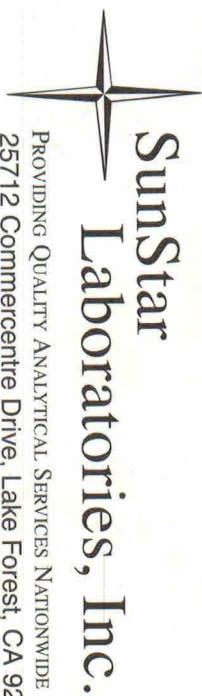
SunStar Laboratories, Inc.

*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.*

Rose Fasheh, Project Manager

# AIR LABORATORY

## Chain of Custody Record



PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE  
25712 Commerce Centre Drive, Lake Forest, CA 92630  
949-297-5020

Client: Northgate Environmental  
Address: 24411 Ridge Route #130, Laguna Hills  
Phone: (949) 716-0050 Fax: (949) 716-0055  
Project Manager: \_\_\_\_\_

Date: 1-31-2018 Page: 1 Of 1  
Project Name: 3rd 4 Fairfax  
Collector: Dana Brown Client Project #: 2047.15  
Batch #: 7180397 EDF #: \_\_\_\_\_

Sample ID	Date Sampled	Start Time	Finish Time	Sample Type: Soil Gas Air	Container Type: Summa Can / Tedlar	Initial Pressure	Final Pressure	TO-3	TO-14	TO-15	8015m Methane	8015m Gasoline	Fixed Gases by TCD	Summa Can # / Comments	Laboratory ID #
B-6-10.0	1-31-18	15:06	15:12	SG	SC	-30	-5.04	A						SSAT-0869	01
B-15-25.0	1-31-18	16:10	16:22	SG	SC	-30	-8.8	A						SSAT-0347	02
B-4-15.0	1-31-18	16:38	16:53	SG	SC	-30	-6	A						SSAT-0280	03
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <u>1-31-18</u>  <u>DRS</u> </div>															
<div style="display: flex; justify-content: space-between;"> <div> Reinquished by: (signature) _____ Date / Time <u>2-1-18</u>  Reinquished by: (signature) _____ Date / Time <u>11:33</u>  Reinquished by: (signature) _____ Date / Time _____  Reinquished by: (signature) _____ Date / Time _____ </div> <div> Received by: (signature) _____ Date / Time <u>12:35</u>  Received by: (signature) _____ Date / Time <u>3/1/18</u>  Received by: (signature) _____ Date / Time _____  Received by: (signature) _____ Date / Time _____ </div> <div> Total # of containers <u>3</u>  Chain of Custody seals Y/N <u>NA</u>  Seals intact? Y/N <u>NA</u>  Received good condition/cold <u>-</u>  Turn around time: <u>Normal</u> </div> <div> Notes  <u>SG = Soil Gas</u>  <u>SC = Summa Can</u> </div> </div>															

\* TO-15 SIM analysis available upon prior notification. (Precertified Summa cans needed)

COCAL 165437





## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T180397

Client Name: NORTHGATE Project: 3rd & FAIRFAX

Delivered by: ☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: \_\_\_\_\_ Date/Time Courier Received: \_\_\_\_\_

Lab Received by: BRUNN Date/Time Lab Received: 2/1/18 12:35

Total number of coolers received: 0

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
<b>Temperature criteria = ≤ 6°C (no frozen containers)</b>		Within criteria? <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>If NO:</b>		
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → <b>Complete Non-Conformance Sheet</b>
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → <b>Complete Non-Conformance Sheet</b>

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: BC 2/1/18

Comments: \_\_\_\_\_





**SunStar** Celebrating 20 Years!  
**Laboratories**

<b>Project Name: 3rd and Fairfax</b>			<b>KATHERINE</b>		
<b>Company: Northgate</b>			<b>X</b>		
<b>Name: Nicky</b>					
<b>Item</b>	<b>Quantity</b>	<b>Unit</b>			
2 oz Jars 24/CS					
4 oz Jars 24/CS	15				
8 oz Jars 12/CS	45				
40 ml unpreserved VOAs 100/box	53(8-TP)				
40 ml HCL-preserved VOAs 72/box	90				
250 ml Poly 24/CS	15-HN03				
1 Liter Poly 12/CS					
500 ml Poly 16/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	182				
(1) Methanol VOA 72/box	91				
(1)Syringe 50/pack	91				
Lock-N-Load Handle 1/pack					
Tedlar Bags 10/pack					
Sub Slab Insert w/ washer & N/F					
Soil Gas SS 16" Drop Tubes					
Gas Extraction Fittings					
Soil Gas Filters					
	<b># Sent</b>	<b>Used</b>	<b>Unused</b>	<b>Unreturned</b>	
<b>Batch Certified Summa Canisters</b>	400cc				
	1L	9(3-P)	3	3	0
	3L				
	6L				
<b>Individually Certified Summa Canisters</b>	400cc				
	1L				
	3L				
	6L				
<b>ManifoldS: Inst. Sampler, Variable Sampler</b>	5-(150) MANIFOLDS CHARGE 3				
<b>Swagelok Fittings: Nuts/Ferrules, Ts</b>	5-NUTS/FERRULES CHARGE 5				
<b>Cooler (Sm, Med, Lrg) Number &amp; Quantity</b>	4-LRG				
<b>Other: Poly Tube, Valves,Silicon Tape, etc.</b>					
<b>Prepared By: JH</b>	<b>Date: 1-25-18</b>				
<b>Reviewed By:</b>	<b>Date:</b>				



SunStar Laboratories Inc.  
25712 Commerce Centre Dr.  
Lake Forest, CA 92630

(949)297-5020  
(949)297-5027 fax  
(530)304-5525 Bill Hannell

Form F-LP0005-1.2

Effective Date: 01/01/2017

\* PLEASE DO NOT WRITE ON OR PLACE LABELS ON SUMMA CANS



**SunStar**  
**LABORATORIES**



## Canister Data Sheet

Client: NORTHGATE\_NICKY\_1-25-18\_9+6

Shipping Information		CHECK		Pressure		Sample		Sample		Initial		Final		Sample		Sample	
Canister Serial #		Date		(-30 +/- 2 psia)		Sample		Date		Pressure		Pressure		Start Time		Finish Time	
SSAT: 0347		1/25/2018		-30		B-6-10-0		1-31-2018		-30		-8		16:10		16:22	
SSAT: 0280		1/25/2018		-30		B-4-15.0		1-31-2018		-30		-6		16:38		16:53	
SSAT: 0149		1/25/2018		-30													
SSAT: 0269		1/25/2018		-30													
SSAT: 0115		1/25/2018		-30													
SSAT: 0869		1/25/2018		-30		B-6-10.0		1-31-2018		-30		-5		15:06		15:12	
SSAT: 2054		1/25/2018				(150) MANIFOLD											
SSAT: 2050		1/25/2018				(150) MANIFOLD											
SSAT: 2001		1/25/2018		USED		(150) MANIFOLD											
SSAT: 3034		1/25/2018		USED		(150) MANIFOLD											
SSAT: 2060		1/25/2018		USED		(150) MANIFOLD											
SSAT: 0109		1/25/2018				PURGE											
SSAT: 0189		1/25/2018				PURGE											
SSAT: 0641		1/25/2018				PURGE											

# Asset Check-In Receipt

SunStar Laboratories Inc.

Check-In Date: 2/1/2018

User Name: Charon, Brian

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
0109	1000cc: 1000cc Summa	0109	Sunstar Labs, Tustin Air Lab	Northgate-Nicky	Nicky Galloway
0115	1000cc: 1000cc Summa	0115	Sunstar Labs, Tustin Air Lab	Northgate-Nicky	Nicky Galloway
0149	1000cc: 1000cc Summa	0149	Sunstar Labs, Tustin Air Lab	Northgate-Nicky	Nicky Galloway
0189	1000cc: 1000cc Summa	0189	Sunstar Labs, Tustin Air Lab	Northgate-Nicky	Nicky Galloway
0269	1000cc: 1000cc Summa	0269	Sunstar Labs, Lake Forest Air Lab	Northgate-Nicky	Nicky Galloway
0280	1000cc: 1000cc Summa	0280	Sunstar Labs, Lake Forest Air Lab	Northgate-Nicky	Nicky Galloway
0347	1000cc: 1000cc Summa	0347	Sunstar Labs, Lake Forest Air Lab	Northgate-Nicky	Nicky Galloway
0869	1000cc: 1000cc Summa	0869	Sunstar Labs, SunStar Labs - South	Northgate-Nicky	Nicky Galloway
2001	Vapor Manifold: Vapor Manifold	2001	Sunstar Labs, SunStar Labs - South	Northgate-Nicky	Nicky Galloway
2050	Vapor Manifold: Vapor Manifold	2050	Sunstar Labs, Lake Forest Air Lab	Northgate-Nicky	Nicky Galloway
2054	Vapor Manifold: Vapor Manifold	2054	Sunstar Labs, Lake Forest Air Lab	Northgate-Nicky	Nicky Galloway
2060	Vapor Manifold: Vapor Manifold	2060	Sunstar Labs, Lake Forest Air Lab	Northgate-Nicky	Nicky Galloway
3034	Vapor Manifold: Vapor Manifold	3034	Sunstar Labs, SunStar Labs - South	Northgate-Nicky	Nicky Galloway
641	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Northgate-Nicky	Nicky Galloway

**WORK ORDER**

**T180397**

**Client:** Northgate Environmental Management -- Laguna  
**Project:** 3rd & Fairfax

**Project Manager:** Rose Fasheh  
**Project Number:** 2047.15

**Report To:**

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

**Date Due:** 02/12/18 17:00 (7 day TAT)

**Received By:** Brian Charon

**Date Received:** 02/01/18 12:35

**Logged In By:** Brian Charon

**Date Logged In:** 02/01/18 12:43

**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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**T180397-01 B-6-10.0 [Air] Sampled 01/31/18 15:06 (GMT-08:00) Pacific Time (US &**

TO-15	02/12/18 15:00	7	03/02/18 15:06
TO-3	02/12/18 15:00	7	03/02/18 15:06

**T180397-02 B-15-25.0 [Air] Sampled 01/31/18 16:10 (GMT-08:00) Pacific Time (US &**

TO-15	02/12/18 15:00	7	03/02/18 16:10
TO-3	02/12/18 15:00	7	03/02/18 16:10

**T180397-03 B-4-15.0 [Air] Sampled 01/31/18 16:38 (GMT-08:00) Pacific Time (US &**

TO-15	02/12/18 15:00	7	03/02/18 16:38
TO-3	02/12/18 15:00	7	03/02/18 16:38

Certificate of Analysis  
**PLM Asbestos Identification**

tel - 714-899-8900  
free - 888-743-0998  
fax - 714-899-1188  
PatriotLab.com  
1041 S. Placentia Avenue, Fullerton, CA 92831



Northgate Environmental  
100 Quail St., Ste. #102  
Newport Beach, CA 92660

Report Number: 699561  
Project Number: 2047 15  
Project Name: 3rd and Fairfax  
Project Location:

Date Collected: 1/30/2018  
Date Received: 2/1/2018  
Date Analyzed: 2/7/2018  
Date Reported: 2/7/2018

Collected By:  
Claim Number:  
PO Number:  
Number of Samples: 15

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
699561-001 B-5-1 0	NA	NA		
<b>Total Asbestos</b>	<b>None Detected</b>			
699561-002 B-14-1 0	NA	NA		
<b>Total Asbestos</b>	<b>None Detected</b>			
699561-003 B-1-1 0	NA	NA		
<b>Total Asbestos</b>	<b>None Detected</b>			
699561-004 B-2-1 0	NA	NA		
<b>Total Asbestos</b>	<b>None Detected</b>			
699561-005 B-6-1 0	NA	NA		
<b>Total Asbestos</b>	<b>None Detected</b>			
699561-006 B-11-1 0	NA	NA		
<b>Total Asbestos</b>	<b>None Detected</b>			



Certificate of Analysis  
**PLM Asbestos Identification**

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free - 888-743-0998  
fax - 714-899-1188  
PatriotLab.com  
1041 S. Placentia Avenue, Fullerton, CA 92831

Northgate Environmental  
100 Quail St., Ste. #102  
Newport Beach, CA 92660

Report Number: 699561  
Project Number: 2047 15  
Project Name: 3rd and Fairfax  
Project Location:

Date Collected: 1/30/2018  
Date Received: 2/1/2018  
Date Analyzed: 2/7/2018  
Date Reported: 2/7/2018

Collected By:  
Claim Number:  
PO Number:  
Number of Samples: 15

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
699561-007 B-13-1 0	NA	NA		
<b>Total Asbestos</b>	<b>None Detected</b>			
699561-008 B-3-1 0	NA	NA		
<b>Total Asbestos</b>	<b>None Detected</b>			
699561-009 B-7-1 0	NA	NA		
<b>Total Asbestos</b>	<b>None Detected</b>			
699561-010 B-9-1 0	NA	NA		
<b>Total Asbestos</b>	<b>None Detected</b>			
699561-011 B-8-1 0	NA	NA		
<b>Total Asbestos</b>	<b>None Detected</b>			
699561-012 B-12-1 0	NA	NA		
<b>Total Asbestos</b>	<b>None Detected</b>			

Certificate of Analysis  
**PLM Asbestos Identification**

tel - 714-899-8900  
free - 888-743-0998  
fax - 714-899-1188  
PatriotLab.com  
1041 S. Placentia Avenue, Fullerton, CA 92831

Northgate Environmental  
100 Quail St., Ste. #102  
Newport Beach, CA 92660

Report Number: 699561  
Project Number: 2047 15  
Project Name: 3rd and Fairfax  
Project Location:

Date Collected: 1/30/2018  
Date Received: 2/1/2018  
Date Analyzed: 2/7/2018  
Date Reported: 2/7/2018

Collected By:  
Claim Number:  
PO Number:  
Number of Samples: 15

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
699561-013 B-4-1 0	NA	NA		
<b>Total Asbestos</b>	<b>None Detected</b>			
699561-014 B-15-1 0	NA	NA		
<b>Total Asbestos</b>	<b>None Detected</b>			
699561-015 B-10-1 0	NA	NA		
<b>Total Asbestos</b>	<b>None Detected</b>			



Raul Lanuza - Analyst



Kwin Legaspi - Approved By

Bulk sample(s) submitted was (were) analyzed in accordance with the procedure outlined in the US Federal Register 40 CFR 763, Subpart F, Appendix A; EPA-600/R-93/116 (Method for Determination of Asbestos in Building Materials), and EPA-600/M4-82-020 (US EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples). Samples were analyzed using Calibrated Visual Estimations (CVES); therefore, results may not be reliable for samples of low asbestos concentration levels. Samples of wall systems containing discrete and separable layers are analyzed separately and reported as composite unless specifically requested by the customer to report analytical results for individual layers. This report applies only to the items tested. Results are representative of the samples submitted and may not represent the entire material from which the samples were collected. "None Detected" means that no asbestos was observed in the sample. "<1%" (less than one percent) means that asbestos was observed in the sample but the concentration is below the quantifiable level of 1%. This report was issued by a NIST/NVLAP (Lab Code 200358-0) and CADOHS- ELAP (Cert. No. 2540) accredited laboratory and may not be reproduced, except in full without the expressed written consent of Patriot Environmental Laboratory Services, Inc. This report may not be used to claim product certification, approval or endorsement by NIST, NVLAP, ELAP or any government agency.

