Appendix F3: Report of Findings, Solana Torrance Site, Hawthorne Boulevard and, Via Valmonte, Torrance, CA

Appendices

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Kennedy/Jenks Consultants

3200 El Camino Real, Suite 200
Irvine, CA 92602
949-261-1577

Report of Findings
Solana Torrance Site
Hawthorne Boulevard and
Via Valmonte, Torrance
CA

21 August 2018

Prepared for

RP Torrance, LLC
444 S. Cedros Avenue, Suite 180
Solana Beach, CA 92075

K/J Project No. 1583018*01

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3200 El Camino Real, Suite 200
Irvine, CA 92602
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Report of Findings
Solana Torrance Site
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Robert E. Logan, P.G.

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RP Torrance, LLC
444 S. Cedros Avenue, Suite 180
Solana Beach, CA 92075

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LIST OF ACRONYMS AND ABBREVIATIONS

µg/L	Micrograms per liter
Amsl	Above Mean Sea Level
Aroclor	Polychlorinated Biphenyl PCB-1260
ART	American Remedial Technologies, Inc.
bgs	Below Ground Surface
CIWMB	California Integrated Waste Management Board
CLRRA	California Land Reuse and Revitalization Agreement
COPCs	Constituents of Potential Concern
Cr VI	Hexavalent Chromium
Development Area	5.71 acres of the Project Site that will be developed as a Multi-family residential development.
DTSC	California Department of Toxic Substances Control
ESA	Phase I Environmental Site Assessment
EPA	Environmental Protection Agency
Former Shell Site	Former Shell Service Station
Geocon	Geocon West, Inc.
H&P	H&P Mobile Geochemistry, Inc.
HERO	Human and Ecological Risk Office
HHRA	Human Health Risk Assessment
Kennedy/Jenks	Kennedy Jenks Consultants
LARWQCB	Los Angeles Regional Water Quality Control Board
Pacific Soils	Pacific Soils, Inc.

PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PCE	Tetrachloroethylene
PRGs	Preliminary Remediation goals
Project Site	Entire property proposed to be purchased by RP Torrance, LLC.
PVLF	Palos Verdes Landfill
QA/QC	Quality Assurance/Quality Control
RP Torrance	RP Torrance, LLC
RSL	Regional Screening Level
RWQCB	Regional Water Quality Control Board
SCAQMD	Southern California Air Quality Management District
SVOC	Semi-Volatile Organic Compound
TFD	Torrance Fire Department
TOC	Total Organic Carbon
TPHcc	Total Petroleum Hydrocarbons carbon chain
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tanks
VOC	Volatile Organic Compound

Executive Summary

RP Torrance, LLC (RP Torrance) is interested in purchasing a 24.68-acre property (Project Site) located south of the Hawthorne Boulevard and Via Valmonte intersection in the City of Torrance, California 90505 (Figure 1). The northern 5.71-acres portion of the Project Site (Development Area) is to be developed for multi-family residential use (Figure 2). The Development Area was formerly a sand and diatomaceous soil quarry that has subsequently been backfilled and has remained fallow for many years. In 2015, RP Torrance's predecessor company, MKS Residential, LLC, contracted with Kennedy/Jenks Consultants (Kennedy/Jenks) to conduct a limited soil vapor assessment as part of their due diligence process. This study detected minor concentrations of fuel-related constituents and concluded that the detected VOCs do not pose a vapor intrusion risk to the proposed development. During subsequent project discussions with the City of Torrance, Fire Department officials required that RP Torrance enter into an oversight program with a California state agency to evaluate the findings of Kennedy/Jenks' 2015 findings.

CLRRA Agreement

On 18 October 2017 RP Torrance entered into a California Land Reuse and Revitalization Agreement (CLRRA) for regulatory oversight of the environmental aspects of the Project Site with the California Department of Toxic Substances Control (DTSC). During initial discussions with the DTSC it became apparent that their oversight would most appropriately apply to the Development Area. Therefore, it was agreed that the CLRRA document will be revised to more specifically apply to the Development Area once the actual boundaries have been finalized. The CLRRA Program sets forth assessment and remediation objectives to be accomplished by qualifying purchasers in return for certain immunities from liability. The agreement also provides for the DTSC to obtain reimbursement for their related oversight costs.

Purpose

In accordance with Section 5 of the CLRRA Kennedy/Jenks provided existing data (Section 5.2) and met with the DTSC team on several occasions to develop an appropriate approach to this project. During these discussions, the DTSC posed the following questions and required that potential impacts to the Development Area associated with these questions be further addressed:

- Does methane or any other air toxic contaminant routinely monitored at the Former PVLF pose a risk to the Development Area?
- Does impacted groundwater emanating from the Former PVLF or the Former Shell Site to the south extend under the Development Area? If so, what are the associated risks?
- What is the likelihood that fuel-impacted soil excavated during remedial activities at the Former Shell Site was deposited on the Project Site?
- What is the nature of the fill material used to backfill the former quarry pit and what risks might that pose to the Development Area and groundwater resources?

The purpose of this report is to capture the results of our research in a Report of Findings as required under Section 5.3.1 of the CLRRA. Because this research could not completely assuage the DTSC's concerns regarding the final bullet (nature of fill), a site assessment workplan was prepared and accepted by the DTSC to satisfy Sections 5.3.1 and 5.3.2 of the CLRRA (Kennedy/Jenks, 2017). The results of this analysis and the potential risks associated with the fill material are also evaluated herein to determine if the Development Area is suitable for unrestricted reuse or will require a Response Plan as set forth in CLRRA Section 5.4.

Conclusions

It is the opinion of Kennedy/Jenks that the purpose of this report required by the CLRRA has been fulfilled as summarized below.

Potential Landfill Gas Impacts from the PVLF

Based on the information and logic described in Section 3.1.2 and summarized below, it is our opinion that landfill gas migration from the Former PVLF to the Development Area is not occurring.

- The mostly inert solid waste material deposited in the most proximal portion of the Former PVLF (Ernie Howlett Park) generates limited quantities of landfill gas because it contains little organic material,
- Low-level quantities of landfill gas generated, if any, are mitigated by the gas collection systems installed at the Former PVLF, and
- Geologic and positional constraints prevent migration of landfill gas to the Development Area.

Therefore, no action with regard to landfill gas mitigation or monitoring is necessary for the Development Area.

Possible Impacts from Offsite Groundwater Sources

As detailed in Sections 3.1.3 and 3.2.4, it is our opinion that the shallow groundwater system associated with the Former PVLF and Former Shell Site along Hawthorne Boulevard are one in the same and do not flow beneath the Development Area for the following reasons:

- Geologic constraints prevent hydraulic connection between the drainage fed by the Former PVLF and the Development Area, and
- Groundwater management through collection systems and remedial measures at the Former PVLF stems offsite migration of impacted groundwater to offsite properties.

Former Shell Site Impacted Soil Disposition

As detailed in Section 3.2.3, there is no evidence that impacted soil removed as part of the remedial work at the Former Shell Site was deposited in the Development Area. This activity took place under LARWQCB oversight and the disposition of impacted soil is well documented.

It is possible that some soil imported to the Development Area as Zone 2 fill from the Sunrise Senior Living development may have contained low levels of fuel-related constituents. A portion of the Sunrise development was occupied by the Former Shell Site and some fuel-related constituents below the regulatory screening levels were allowed to remain onsite by the LARWQCB. However, this does not present a significant risk to the Development Area given that petroleum hydrocarbons and fuel-related VOCs were not detected in Zone 2 above their applicable screening levels during assessment activities.

Quarry Fill Nature and Associated Risks

Based on prior geotechnical reports and related studies, the former quarry appears to be backfilled with onsite-sourced quarry tailings at the base (Zone 3); soil imported from the Sunrise Senior Living development above this (Zone 2); and a final layer of material imported from various other constructions sites in the Palos Verdes area at the surface (Zone 1). Site assessment data collected from these zones generally support this conclusion, with local exceptions.

The majority of sample results produced during site assessment in the Development Area were below applicable screening levels. The small percentage of samples that did exceed screening levels were primarily in Zone 1. The sporadic occurrence and relatively low concentration of detected constituents is consistent with material imported from local construction sites and placed in lifts primarily into the upper portion of the former quarry pit (Zone 1).

A screening-level risk assessment using the maximum concentration of each detected constituent was conducted to evaluate risks from chemicals in soil and soil vapor at the Development Area under future residential uses. The risks from chemicals in soil and soil vapor are higher than DTSC's target risk levels, indicating the potential for unacceptable risks if the Development Area were redeveloped for residential use without any mitigation measures. However, screening-level risk assessments are intended to be conservative, so the results do not necessarily determine that an unacceptable risk exists at the Development Area. The potential unacceptable risks associated with future residential use could be mitigated by minimizing or eliminating the exposure pathways to soil and soil vapor in the Development Area.

Data Sufficiency

Findings of the screening-level risk assessment indicate that risks are above the levels generally accepted by the DTSC for unrestricted reuse of the Development Area. Therefore, it will be necessary to move to the next level under the CLRRA and prepare a Response Plan to properly manage the potential risks posed by the contaminants detected in fill material.

It is Kennedy/Jenks opinion that the data obtained to date are sufficient to prepare an appropriate Response Plan and therefore no further sampling is necessary.

Section 1: Introduction

RP Torrance, LLC (RP Torrance) is interested in purchasing a 24.68-acre property (Project Site) located south of the Hawthorne Boulevard and Via Valmonte intersection in the City of Torrance, California 90505 [Figure 1]. The northern 5.71-acres portion of the Project Site (Development Area) is to be developed for multi-family residential use (Figure 2). The Development Area was formerly a sand and diatomaceous soil quarry that has subsequently been backfilled and has remained fallow for many years. In 2015, RP Torrance's predecessor company, MKS Residential, LLC, contracted with Kennedy/Jenks Consultants (Kennedy/Jenks) to conduct a limited soil vapor assessment as part of their due diligence process. This study detected minor concentrations of fuel-related constituents and concluded that the detected VOCs do not pose a vapor intrusion risk to the proposed development. During subsequent project discussions with the City of Torrance, Fire Department officials required that RP Torrance enter into an oversight program with a California state agency to evaluate the findings of Kennedy/Jenks' 2015 findings.

1.1 CLRRA Agreement

On 18 October 2017 RP Torrance entered into a California Land Reuse and Revitalization Agreement (CLRRA) for regulatory oversight of the environmental aspects of the Project Site with the California Department of Toxic Substances Control (DTSC). During initial discussions with the DTSC it became apparent that their oversight would most appropriately apply to the Development Area. Therefore, it was agreed that the CLRRA document will be revised to more specifically apply to the Development Area once the actual boundaries have been finalized. The CLRRA Program sets forth assessment and remediation objectives to be accomplished by qualifying purchasers in return for certain immunities from liability. The agreement also provides for the DTSC to obtain reimbursement for their related oversight costs.

1.2 Proposed Development

Approximately 5.71 acres of the Project Site will be developed as a multi-family residential development consisting of three multi-family residential buildings (A, B, and C), a six-story parking structure, and associated community areas (Figure 2). Each residential building will consist of four stories of residential units over a naturally or mechanically ventilated parking garage.

As documented in the 30 June 2017 *Preliminary Geotechnical Investigation, Proposed Multi-Family Residential Development Hawthorne Boulevard and Via Valmonte, Torrance, California*, Report prepared by Geocon West, Inc., the Development Area will be graded to the following pad elevations:

- Buildings A and B – The finished floor elevation will range from 190.5 to 193.5 feet MSL. Existing artificial fill will be excavated to an elevation of approximately 173 to 177 feet MSL and properly compacted for support of the reinforced engineered fill blanked and proposed foundation.

- Building C – The finished floor elevation will be 191.67 feet MSL. The San Pedro Sand is present in this area, requiring removal of this native material to bring elevations to the finished floor elevation. The San Pedro Sand is considered suitable for direct support of the reinforced engineered fill blanket and proposed foundation system.

- Parking Structure – The finished floor elevations vary between 190.75 and 193.9 feet MSL beneath the proposed structure. Both artificial fill and San Pedro Sand are present in this area, therefore existing artificial fill will be excavated to an elevation of approximately 187 feet MSL and properly compacted for support of the reinforced engineered fill blanket, and proposed foundation. Where competent San Pedro Sand is exposed at the excavation bottom, it is considered suitable and will not require excavation to an elevation of 187 feet MSL.

Therefore, the Development Area is not balanced and will require a net export of soils. In addition, a 4-foot layer of clean fill will be placed across the entire Development Area. It is anticipated that this fill material will consist of the competent native materials excavated to obtain the above-referenced pad elevations associated with Building C.

1.3 Report Purpose

In accordance with Section 5 of the CLRRA Kennedy/Jenks provided existing data (Section 5.2) and met with the DTSC team on several occasions to develop an appropriate approach to this project. During these discussions, the DTSC posed the following questions and required that potential impacts to the Development Area associated with these questions be further addressed:

- Does methane or any other air toxic contaminant routinely monitored at the Former PVLF pose a risk to the Development Area?

- Does impacted groundwater emanating from the Former PVLF or the Former Shell Site to the south extend under the Development Area? If so, what are the associated risks?

- What is the likelihood that fuel-impacted soil excavated during remedial activities at the Former Shell Site was deposited on the Project Site?

- What is the nature of the fill material used to backfill the former quarry pit and what risks might that pose to the Development Area and groundwater resources?

The purpose of this report is to capture the results of our research in a Report of Findings as required under Section 5.3.1 of the CLRRA. Because this research could not completely assuage the DTSC's concerns regarding the final bullet (nature of fill), a site assessment workplan was prepared and accepted by the DTSC to satisfy Sections 5.3.1 and 5.3.2 of the CLRRA (Kennedy/Jenks, 2017*).* The results of this analysis and the potential risks associated with the fill material are also evaluated herein to determine if the Development Area is suitable for unrestricted reuse or will require a Response Plan as set forth in CLRRA Section 5.4.

1.4 Report Organization

The remainder of the Solana Report of Findings consists of the following sections:

- **Section 2**- Description of the Project Site and background regarding site-use history, previous environmental investigations, and regional site setting.
- **Section 3**- Background information and evaluation of relevant neighboring sites including the Palos Verdes Landfill and the Former Shell Service Station.
- **Section 4**- Fill material investigation to include soil and soil vapor sampling activities, results, screening levels, and screening-level exceedances.
- **Section 5**- Development area site conceptual model.
- **Section 6**- Screening-level human health risk assessment and conclusions.
- **Section 7**- Conclusions.
- **Section 8**- References

Section 2: Project Site Background

2.1 Historical Project Site Uses

The northern portion of the Project Site was a former sand and diatomaceous soil quarry active from the 1930s to 1950s. In late 2008 and mid-2009, the quarry pit was geotechnically improved to surface grade using a combination of existing onsite-sourced quarry tailings and fill material imported from other construction projects in the Palos Verdes area (Pacific Soils, 2010). The Project Site has never been developed and is currently vacant.

2.2 Previous Environmental Investigations

2.2.1 Phase I Environmental Site Assessment Report

Kennedy/Jenks conducted a Phase I Environmental Site Assessment (ESA) for the Project Site in September 2015 (Kennedy/Jenks, 2015) and noted the potential for groundwater contamination in the area to have impacted the Project Site from the following contributors:

- The former Palos Verdes Landfill site (PVLF) has known groundwater impacts that have migrated north along Hawthorne Boulevard and along the south-southeast boundary of the Project Site. Groundwater monitoring data from the Fourth Quarter 2014 Operation and Maintenance Summary Report (the most current available at the time) identified monitor wells in close proximity to the southern portion of the Project Site that show Volatile Organic Compound (VOC) and Semi-Volatile Organic Compound (SVOC) constituents in groundwater above their respective Maximum Contaminant Levels (MCLs).

- A former Shell Service Station adjoining the Project Site to the south had reported petroleum-related impacts to soil and groundwater. The case received closure from the oversight agency in 2010.

In addition, the ESA raised concerns regarding the use of undocumented fill to restore the former quarry pit along with other minor issues expressed in the ESA report as “Notable Findings”.

2.2.2 Limited Subsurface Assessment Report

In response to the ESA findings, Kennedy/Jenks completed a limited subsurface assessment in August 2015 (Kennedy/Jenks, 2016). The assessment consisted of a screening-level study of shallow soil vapor conditions in the Development Area to consider whether off-gassing of VOCs from groundwater or imported fill was occurring, and if so, consider whether this presented a potential vapor intrusion risk to the proposed development. Note that the proposed development presented in this report has since been altered. The location of soil vapor points relative to the current development plan are shown on Figure 3.

Relevant findings are summarized below:

- VOCs were only detected in two of the eight soil vapor samples collected at approximately five feet below ground surface.

- Benzene was detected in SV-8 at a concentration of 0.15 micrograms per liter (μg/l). Toluene was detected in SV-2 at a concentration of 2.2 μg/l.

The detections of these constituents were not co-located, as these two temporary wells are on opposite ends of the Development Area. Based on these findings, Kennedy/Jenks concluded that there does not appear to be a VOC vapor intrusion risk for the proposed residential development.

2.3 Regional Site Setting

2.3.1 Regional Geology

According to the 30 June 2017 *Preliminary Geotechnical Investigation Report* prepared by GeoCon West, Inc., "the Project Site is located on the northern flank of the Palos Verdes Hills, the westernmost onshore uplift of the Peninsular Ranges geomorphic province. The sedimentary rock in the Palos Verdes Hills are folded and faulted into a dome-like structure with the north and south limbs dipping downward away from the central portion of the hills. The major geologic structure in the area is the northwest-trending Palos Verdes Fault Zone, a zone of right-lateral strike-slip and oblique-slip faults. The Palos Verdes Fault Zone is generally located along the northern edge of the Palos Verdes Hills between San Pedro Bay on the southeast and Santa Monica Bay on the northwest. The northeastern strand of the fault zone is the boundary between the uplifted Palos Verdes Hills to the south and the Los Angeles Basin to the north".

2.3.2 Regional Hydrology

The Los Angeles Regional Board's Basin Plan (LARWQCB, 2014) indicates that the Project Site is located in the Palos Verdes uplift, which is not considered a groundwater basin. However, groundwater on the eastern side of the Palos Verdes uplift is considered by the plan to be upgradient of the West Coast Basin. The plan states the following:

- "Beneficial uses for ground waters outside of the major basins are, in many cases, significant sources of water. Furthermore, groundwaters outside of the major basins are either potential or existing sources of water for downgradient basins, and as such, beneficial uses in the downgradient basins shall apply to the areas."

- The West Coast Basin is designated as existing beneficial use for MUN, IND, PROC, and AGR.

Per the June 1995 *Remedial Investigation Report, Palos Verdes Landfill Volume I* prepared by the Sanitation Districts of Los Angeles County, the Palos Verdes Hills are underlain by bedrock of the Monterey Formation which is considered to be non-waterbearing, in the economic sense. The bedrock originates from deep marine sediments with poor natural water quality consisting of

elevated levels of dissolved solids, metals, and organic compounds (does not meet secondary drinking water standards). Groundwater in the Palos Verdes Hills generally follows the topographic gradient, flowing from southwest to northeast. Hydrogeologic modeling has demonstrated that groundwater flow in the Former PVLF area (Palos Verdes Hills) is unconfined, topographically driven, and tributary to the regional flow in the West Coast Basin. The model demonstrates that there is a zone of limited areal extent, the "zone of particle pathways", within which the particles of groundwater emanating from the PVLF will flow; and particle tracking exercises indicate that groundwater particles originating at the Former PVLF generally require over 2,000 years to reach the West Coast Basin.

The West Coast Basin is structurally separated from the Palos Verdes Hills by the Palos Verdes fault zone which locally acts as a partial barrier to groundwater flow. Some groundwater, of poor quality, migrates very slowly through the unweathered Monterey Formation bedrock along north-dipping bedding planes and fractures, however, fractures within the Monterey Formation are commonly filled with clay, secondary mineralization, and naturally occurring hydrocarbons (tar) which limit the transmission of groundwater through these fractures. Steep groundwater gradients exist near the inferred trace of the Palos Verdes fault zone indicating that the fault zone acts as a partial barrier to groundwater flow from the Palos Verdes Hills to the West Coast Basin. These gradients are more pronounced near Hawthorne Boulevard and become less pronounced to the east.

The nearest groundwater supply well is documented to be located 3-1/4 miles to the north of the PVLF in the downtown area of the City of Torrance, per the Water Replenishment District Regional Groundwater Monitoring Report Water Year 2016-2017, published in March 2018 shows a nested monitoring well (Chandler 3) ~2 miles away (Figure 4).

2.3.3 Site Geology and Hydrology

2.3.3.1 Summary of Geotechnical Investigations and Soil Removal/Replacement History

Multiple phases of geotechnical investigation have occurred on the Project Site within the Development Area by both Pacific Soils, Inc. and Geocon West, Inc. The following summary of the Project Site geology is paraphrased based on review of the following documents:

- Pacific Soils Engineering, Inc., Geotechnical Report of Compacted Fill Placement, Butcher Hill Property West of Hawthorne Boulevard and South of Via Valmonte, City of Torrance, California, 17 February 2010.

- Geocon West, Inc., Preliminary Geotechnical Investigation, Proposed Multi-Family Residential Development Hawthorne Boulevard and Via Valmonte, Torrance, California, 30 June 2017.

Pacific Soils, Inc. (Pacific Soils) conducted a geotechnical investigation in 2005 that consisted of four bucket auger borings and nine test pits. The bucket auger borings were advanced to depths up to 111 feet below the existing ground surface (bgs) and the test pits were advanced to a maximum depth of 17 feet bgs.

Pacific Soils later completed a grading/compacted fill placement project at the Project Site that consisted of:

- Stripping and clearing the area proposed for grading of existing trash, brush, vegetation and other deleterious materials for offsite disposal,

- Excavation of in place soils consisting of artificial fill, colluvial soils, and weathered bedrock (unsuitable soils) prior to the replacement and recompaction of remaining suitable soils, and

- Importing, placing, and recompacting fill from offsite sources.

"The primary source of import material was the Sunrise Senior Living construction project located southerly adjacent to the subject site. These materials, which were transported to the disposal site in bottom dump trailers and dump trucks, were primarily diatomaceous claystones and siltstones of the Valmonte Dolomite. Near the end of the import operations described herein, additional materials were brought into the site in end dump trucks. This material was primarily sourced from smaller construction projects on the Palos Verdes peninsula and consisted of a varied admixture of clay, silt and sand with a significant amount of adobe clay" (Pacific Soils, 2010).

In July 2015, Geocon West, Inc. (Geocon) conducted a geotechnical investigation that consisted of drilling 17 large-diameter bucket auger borings to depths between 11 and 111.5 feet bgs, four of which were downhole logged by a Certified Engineering Geologist, and six 4-inch diameter borings utilizing manual augers and digging equipment to depths between 7 and 23.5 feet bgs. Geocon West, Inc. completed a supplemental investigation in May 2017 that consisted of drilling nine 8-inch diameter borings using a truck-mounted hollow-stem auger rig to depths between 60.5 and 120.5 feet bgs, and three 8-inch diameter borings to depths between 15 and 25 feet bgs for the proposes of percolation testing (Geocon, 2017).

2.3.3.1.1 Site Geology and Soil Zones

Investigative results document three zones of artificial fill, resulting from backfilling the previous mining pit, that extend to maximum depths ranging from 2 to 74 feet bgs beneath the Development Site. The three zones of fill material are categorized by Kennedy/Jenks as follows:

- Zone 1: An upper zone of fill material that consists of material brought in during the final stages of backfilling from various small construction sites around the Palos Verdes Peninsula.

- Zone 2: An intermediate zone of fill material that consists of material brought onsite from the Sunrise Senior Living property to the south, a portion of which included a former Shell gasoline station.

- Zone 3: The deepest zone of fill material was described by Geocon to represent native Project Site soils that were excavated during historic mining activities (tailings) and later replaced into the base of the pit.

After conferring with DTSC representatives, Kennedy/Jenks developed a *Draft Fill Material Investigation Technical Memorandum* dated 1 December 2017. This included a table (Table 1) that identified the depth of fill logged by Geocon during their 2017 geotechnical investigation, as well as the top of native backfill (onsite-sourced quarry tailings) excavated from the historic mining activities. This table also showed the maximum depth of noted construction debris from Geocon's boring logs (Appendix A).

2.3.3.1.2 Groundwater

As described above, geotechnical borings were drilled in the Development Area to a maximum depth of 120.5 feet bgs (elevation 71.5 feet msl) and groundwater was not encountered (Geocon West, Inc., 2017). The depth of 120.5 feet bgs indicates that the deepest boring extends 46 feet into native material beyond the deepest point of investigated fill (74 feet bgs).

As described in Section 2.3.2 above, groundwater associated with the Former PVLF is documented to be topographically-driven through overburden materials. According to Todd Engineers, (Todd, 2009), "near surface geologic materials at and near the [PVLF] Site are composed of alluvium and other unconsolidated sediment and have relatively high hydraulic conductivity compared with underlying bedrock units. These overburden materials act as preferential pathways for groundwater movement. Prior to landfilling and mining operations, two primary surface water drainages crossed the present [PVLF] Site as shown on Figure 5. Various tributaries merged into the main drainages along present day Crenshaw and Hawthorne Boulevards. Alluvium in these historic drainages forms the preferred pathway for groundwater flow in the area".

In contrast to the PVLF conditions described above, topographic and geologic conditions appear to separate impacted PVLF groundwater from the Project Site and result in minimal drainage to the Development Area. This is supported by data from Former PVLF Well M63B, which is the nearest PVLF groundwater monitoring well to the Development Area and is located along Hawthorne Boulevard, downgradient of the landfill (Figure 6). In the fourth quarter of 2017 the groundwater elevation in this well was 160.76 feet above mean sea-level (amsl) [County Sanitation Districts of Los Angeles County, 2018]. This elevation is ~90 feet above the deepest boring advanced within the Development Area. This demonstrates that the Development Area is separated from the historic drainage along Hawthorne Boulevard that controls groundwater flow from the western portion of the Former PVLF. With limited topographic drainage and generally low precipitation feeding the Project Site, infiltration to groundwater under current conditions beneath the Project Site is not expected to be a significant source of water for the West Coast Basin (Figure 7). Infiltration rates will be further reduced by the proposed development and associated storm water management infrastructure.

Section 3: Relevant Neighboring Sites

3.1 Former Palos Verdes Landfill

Landfill gas and groundwater impacts associated with the Former Palos Verdes Landfill (PVLF) do not appear to encroach on the Project Site and it is therefore our opinion that they do not present an adverse risk to future residents. The basis for this conclusion is provided in the sections that follow.

Documents reviewed and paraphrased below include the following:

- California Regional Water Quality Control Board, Los Angeles Region, *Water Quality Control Plan, Los Angeles Region*, Adopted June 13, 1994.
- County Sanitation Districts of Los Angeles County, *Remedial Investigation Report Palos Verdes Landfill,* June 1995.
- County Sanitation Districts of Los Angeles County, *Palos Verdes Landfill Final Remedial Action Plan,* September 1995.
- Todd Engineers, *Palos Verdes Landfill Five-Year Review, Rolling Hills Estates, California,* March 2009.
- County Sanitation Districts of Los Angeles County, *Palos Verdes Landfill Second Five-Year Review, Rolling Hills Estates, California,* 6 January 2015.
- Geocon West, Inc., *Preliminary Geotechnical Investigation, Proposed Multi-Family Residential Development Hawthorne Boulevard and Via Valmonte, Torrance, California*, 30 June 2017.

3.1.1 Former PVLF History

The Former PVLF, located at 25706 Hawthorne Boulevard, covers approximately 291 acres of land. Approximately 83 acres is operated by the County of Los Angeles Department of Parks and Recreation and the South Coast Botanic Garden; 35 acres are operated by the City of Rolling Hills Estates and Ernie Howlett Park; and the remaining 173 acres are operated by the Los Angeles County Sanitation Districts (Figure 8).

Prior to becoming the PVLF, the property was operated as a diatomite mine from the early 1900's until the 1950's. Landfill operations began in 1952 in the area currently occupied by the South Coast Botanic Garden. The Los Angeles County Sanitation District acquired the landfill from Ben K. Kazarian and Sons in 1957 and continued operations at the South Coast Botanic Garden until 1965. Approximately 3.5 million tons of non-hazardous wastes were deposited at the site now occupied by the South Coast Botanic Garden. Landfill operations on the Main Site began in 1961 and continued until December 1980 when the landfill reached design capacity. Approximately 18.3 million tons of wastes were deposited at the Main Site. Wastes at this site initially consisted of only non-hazardous and inert wastes until 1964 when approximately 40

percent of the Main Site was permitted to receive Class I hazardous wastes. Landfill operations at the Ernie Howlett Park parcel occurred from 1970 to 1979. Approximately 1.8 million tons of non-hazardous and largely inert wastes were deposited in the area now occupied by Ernie Howlett Park (Todd Engineers, 2009). Ernie Howlett Park is the most proximal portion of the Former PVLF to the Development Area, with an approximate distance of 712 feet from proposed Building C (Figure 9).

3.1.2 Potential Landfill Gas Migration Concerns

After reviewing the information summarized in the subsections that follow, it is our opinion that landfill gas migration from the Former PVLF to the Development Area is not occurring for the following reasons:

- The mostly inert solid waste material deposited in the most proximal portion of the Former PVLF (Ernie Howlett Park) generates limited quantities of landfill gas because it contains little organic material,
- Low-level quantities of landfill gas generated, if any, are mitigated by the gas collection systems installed at the Former PVLF, and
- Geologic and positional constraints prevent migration of landfill gas to the Development Area.

3.1.2.1 Landfill Gas Management

As described in Section 3.1 above, the most proximal portion of the Former PVLF to the Project Site is Ernie Howlett Park. This section of the landfill received mostly inert solid waste material during its operation, which generates limited quantities of landfill gas because it contains little organic material. This was verified through field measurements of surface gas emissions taken at Ernie Howlett Park during the design of the gas collection systems for the Main Site and the South Coast Botanic Garden. Based on the low-level results it was determined that an active gas-collection system was unnecessary, and that a passive rock trench installed along the western boundary would satisfy gas control needs at Ernie Howlett Park (County Sanitation Districts of Los Angeles County, 1995) [Figure 10].

3.1.2.2 Post-Closure Boundary Probe Monitoring

Data collected during post-closure boundary probe monitoring informs us that landfill gas migration is not a concern to the proposed development as paraphrased below from the County Sanitation Districts of Los Angeles County, Palos Verdes Landfill Second Five-Year Review, Rolling Hills Estates, California, 6 January 2015.

To ascertain that offsite gas migration is not occurring and to assess the effectiveness of the gas collection systems, an extensive landfill gas monitoring probe system was installed around the entire perimeter of the Former PVLF in accordance with California Integrated Waste Management Board (CIWMB) post closure regulations (Figure 11). The current probe monitoring system was installed in 1980 after the Former PVLF reached its final design capacity and was closed. The boundary probe monitoring system at the Former PVLF includes a total of

256 probes: 63 around the South Coast Botanic Garden, 155 on the perimeter of the Main Site, and 38 around Ernie Howlett Park.

The maximum allowed probe spacing is 1,000 feet. At the PVLF, the maximum probe spacing is 180 feet, while in some areas probes are less than 50 feet apart. Boundary probes have been installed at this conservative density due to the residential nature of the surrounding area and the relatively small setback of ten feet between the property boundary and fill areas in some locations. In areas of active gas extraction, the probes are typically aligned halfway between the gas extraction wells. Therefore, they monitor the areas that experience the least amount of influence from the gas collection system and are the most likely pathways for gas migration.

Boundary probes are sampled on a monthly basis and analyzed for TOC (as methane) and oxygen to monitor potential landfill gas migration. During the First Five-Year Review period nearly 46,000 samples were collected. 31,321 samples from the Main Site, 10,564 samples from the South Coast Botanic Garden, and 4,066 samples from Ernie Howlett Park. During the second Five-Year period 25,500 samples were collected from the PVLF boundary probes. 17,449 sample from the Main Site, 5,834 samples from the South Coast Botanic Garden, and 2,201 samples from Ernie Howlett Park.

During the first Five-Year Review period the average Main Site boundary probe TOC (as methane) level was 0.02 percent, the average South Coast Botanic Garden TOC (as methane) level was 0.0004 percent, and the average Ernie Howlett Park TOC (as methane) level was 0.05 percent. During the second Five-Year Review period the average Main Site boundary probe TOC (as methane) level decreased to 0.002 percent, the average South Coast Botanic Garden TOC (as methane) level was 0.002 percent and there were no TOC (as methane) detections in the Ernie Howlett Park boundary probes.

At the Main Site, one boundary probe located along the northeast boundary had a single TOC (as methane) detection at or above the action level in 2008 and four TOC (as methane) detections at or above the action level during one sampling event in 2010. The detections triggered the implementation of corrective actions to clear the probe below the SCAQMD Rule 1150.1 Compliance Plan action level within 10 days. There have been no additional TOC (as methane) detections in the Main Site boundary probe since 2010 indicating that the corrective actions implemented have been successful in controlling subsurface gas migration (County Sanitation Districts of Los Angeles County, 2015).

During the first Five-Year Review Period a total of 28 quarterly samples collected from the Main Site and the South Coast Botanic Garden boundary probes; and an additional 191 samples collected from the Main Site, South Coast Botanic Garden, and Ernie Howeltt Park boundary probes, per the request of the DTSC, were analyzed for VOCs. During the second Five-Year period a total of 22 quarterly samples from the Main Site and 7 quarterly samples from the south Coast Botanic Garden boundary probes were analyzed for VOCs. Average VOC concentrations for the majority of constituents were either lower during the second Five-Year Review period, detected at concentrations below the first Five-Year Review Period detection limits, or were not detected during either the first or second Five-Year Review Periods. Analysis of the second Five-Year Review Period indicates that the Former PVLF landfill gas collection system is effective in controlling subsurface gas migration (County Sanitation Districts of Los Angeles County, 2015).

3.1.2.3 Neighborhood Meter Box Monitoring

Further evidence supporting our conclusion that methane migration to the Development Area is not occurring is provided by the results of the neighborhood meter box monitoring program. This program consisted of taking monthly TOC as methane levels (using an organic vapor analyzer) from water meter boxes at residences bounded by Hawthorne Boulevard, Rolling Hills Road, Crenshaw Boulevard, and the northeastern boundary of the PVLF (the residential area immediately adjacent to the Main Site). The monthly neighborhood meter box monitoring program was conducted to fulfill the requirements of the county Department of Health Services. The results of the TOC readings from September 1990 to June 1994 during the remedial investigation are given in the *Remedial Investigation Report* (County Sanitation Districts of Los Angeles County, 1995). With one exception, suspected to have been caused by a solvent (possibly paint thinner) dumped into the meter box, the TOC readings were consistently below 10 ppm and are comparable to the background ambient air readings taken at the same time (County Sanitation Districts of Los Angeles County, September 1995).

3.1.2.4 Geologic and Positional Constraints

The final pad elevations for the proposed development sit topographically lower than the bottom of the Former PVLF Deposits. The base of the landfill deposit is at an elevation >200 feet amsl (County Sanitation Districts of Los Angeles County, September 1995), while the final pad elevations for the proposed development range from 190.75 to 193.5 feet amsl. These relationships are illustrated in Figure Series 12A through 12C and Figure Series 13A through 13C.

Monterey Formation bedrock separates the Former PVLF from the Development Area. The bedding exposed on the slope face to the south of the proposed development between the Former PVLF and the Development Area generally dips to the north as shown on Figure 13B with the beds daylighting at the top of the slope (Geocon West, Inc., 2017). This stratigraphic condition is not conducive for landfill gas transport from the Former PVLF to the Development Area.

3.1.3 Potential Groundwater Concerns

After reviewing the information summarized in the subsections that follow, it is our opinion that groundwater migration from the Former PVLF to the Development Area is not occurring for the following reasons:

- Geologic constraints prevent hydraulic connection between the drainage fed by the Former PVLF and the Development Area, and
- Groundwater management through collection systems and remedial measures at the Former PVLF stems offsite migration of impacted groundwater to offsite properties.

3.1.3.1 Geologic Constraints

As presented in greater detail in Section 2.3.3.1.2 above, the Development Area is separated from the historic drainage along Hawthorne Boulevard that controls groundwater flow from the western portion of the Former PVLF.

3.1.3.2 Groundwater Management

The Former PVLF was found to be the source of two plumes of groundwater contamination during the remedial investigation (County Sanitation Districts of Los Angeles County,1995); one along Hawthorne Boulevard and a second along Crenshaw Boulevard. Although groundwater directly downgradient of the PVLF site is not in a designated groundwater basin (RWQCB, 1994) and its future use as a drinking water supply is unlikely due to limited aquifer thickness and naturally poor water quality, remedial measures were taken to ensure the groundwater plumes are contained at the site (County Sanitation Districts of Los Angeles County, 2015). The remedial measures consist of the following:

3.1.3.2.1 Subsurface Barrier System

A subsurface cement bentonite barrier system and groundwater-extraction well network was installed in the northern corner of the Main PVLF site along Hawthorne Boulevard by the County Sanitation Districts of Los Angeles County in 1986 (Figure 14). The barrier system consists of the following components:

- A low hydraulic conductivity (10^{-7} cm/sec) cement-bentonite cutoff wall that acts as a physical barrier that impeded groundwater flow,
- Eighteen upgradient groundwater extraction wells that maintain the hydraulic gradient across the barrier to be towards the landfill further impeding the flow of groundwater, and
- A network of 32 downgradient groundwater monitoring wells that provide coverage for the groundwater flow paths from the landfill site and additional coverage beyond the extent of the contamination defined during the RI/FS.

3.1.3.2.2 Underdrain Collection Sumps

There are two underdrain collection sumps located at the Former PVLF that are hydraulically connected to the subsurface (Figure 15). One sump (Sump 7) receives liquids from a french-drain collection system beneath the northeast portion of the Main Site. This water is combined with liquids from multiple sources at the Former PVLF prior to being discharged into a sewer line under Industrial Waste Discharge Permit Number 11561. This water is then treated at the Joint Water Pollution Control Plant in Carson.

The other underdrain collection sump is the Parcel 4 Sump (Sump P4) that collects water from an underdrain beneath Ernie Howlett Park. The Sanitation Districts installed this underdrain in 1969 to collect alluvial water flowing in the canyon where Parcel 4 (now Ernie Howlett Park) was to be filled. This water is discharged into a sewer line under Industrial Waste Discharge Permit Number 10995. This water flows to the Joint Water Pollution control plant in Carson where it is treated (County Sanitation Districts of Los Angeles County,1995).

3.2 Former Shell Service Station

Kennedy/Jenks completed a desktop study to evaluate:

- The likelihood that the impacted soil removed from the Former Shell Service Station (Former Shell Site) located southeast of the Project Site on Hawthorne Boulevard (Figure 9) during remedial activities was placed on the Project Site, and

- Whether impacted groundwater associated with the Former Shell Site extends beneath the Development Area.

The desktop study confirmed that soils removed from the Former Shell Site during completion of their remedial action are well documented and were appropriately disposed of, and that groundwater impacts from the Shell property do not appear to encroach on the Development Area. Therefore, adverse risks to the Development Areas associated with these matters are not expected. However, it is possible that some soil impacted with low-levels of fuel-related constituents that were deemed not to present a risk by the oversight agency were used to backfill a portion of the former quarry pit (Zone 2 fill material) at the Project Site.

3.2.1 Background

In August 1988 existing USTs, dispenser islands, product piping, and surrounding soils at the Former Shell Site were removed. A site assessment was conducted through 1994 with oversight from the Torrance Fire Department (TFD), who later referred the case to the Los Angeles Regional Water Quality Control Board (LARWQCB). On September 26, 1996, the LARWQCB completed their review and granted a letter indicating no further action was required. The complete site history has been detailed by Delta Environmental (2007c) and should be reviewed for further details.

Beginning in September 2004, Kleinfelder performed a site assessment study for Sunrise Development, Inc. in support of a proposed redevelopment for a senior housing project. A portion of the proposed development included the Former Shell Site. Following a series of assessment and remedial excavation activities performed by Delta Environmental (Delta) on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), the LARWQCB concluded that the site investigation and corrective action was complete and granted a letter indicating no further action was required (LARWQCB, 2010). Relevant details pertaining to the Development Area are provided below.

3.2.2 Soil Remediation and Excavation

Remedial excavation to remove impacted soil greater than the USEPA Region 9 Preliminary Remediation Goals (PRGs) was conducted by Delta during two separate events taking place in November 2006 and again between July and August 2007. Soil cuttings were stockpiled on site, profiled for disposal, and impacted soils were transported under manifest by American Remedial Technologies, Inc. (ART) to their facility in Inglewood, California. After profiling, soil deemed not to have been impacted was transported to Shell's facility in Carson, California. Delta indicated that, "All petroleum-derived impacts remaining at the site were in the same magnitude of the detection limits and under the PRGs" (Delta, 2007c).

3.2.3 Disposition of Exported Fill

Comments from anonymous public sources to the City of Torrance indicated that potentially contaminated fill was brought onto the Project Site from the Former Shell Site. As described above, soil remediation on behalf of Shell resulted in removal and transport of impacted soil to American Remedial Technologies facility in Inglewood, California. The waste manifests were included in the Addendum to Soil Remediation Work Plan (Delta 2007b) submitted to the Torrance Fire Department on January 12, 2007 and Large Auger Site Assessment Report (Delta 2007a) submitted to the LARWQCB. These reports have been included as Appendix B. Therefore, this material does not appear to have been deposited on the Project Site.

During Pacific Soils' 2010 grading and placement of compacted soils at the Project Site, they reported that the primary source of import material was the Sunrise Senior Living construction project (Pacific Soils, 2010). Although most of the soil exported from this development site is presumed to have come from the adjacent hillside to the west, an unknown portion of the material exported for the Sunrise development may have included post remediation soils from the Former Shell Site. Some soil impacted with minor concentrations of fuel-related constituents was deemed not to pose a risk by the LARWQCB and allowed to remain onsite. Therefore, it is possible that some of the soil imported to fill the former quarry pit on the Project Site may contain low-levels of fuel-related constituents. This soil has been categorized as Zone 2 fill material as documented in Sections 2.3.3.1.1 and 4.1.

3.2.4 Groundwater Concerns

Grab groundwater samples collected during impacted soil excavation at approximately 46 feet bgs contained both petroleum and non-petroleum derived constituents. Delta concluded that that non-petroleum derived chlorinated constituents are associated with the PVLF plume (Delta, 2007c). As required by the LARWQCB, Delta installed four groundwater monitoring wells in February 2008 to characterize the extent of fuel-related groundwater impacts (Delta, 2008). After monitoring groundwater conditions quarterly for two years, the LARWQCB granted no further action status (17 March 2010) and the wells were subsequently destroyed by Delta (Delta, 30 December 2010).

Former Shell Service station monitoring wells have established groundwater elevations at approximately 40 feet bgs. This is consistent with groundwater elevations in nearby PVLF monitor wells and supports Delta's conclusion that groundwater beneath the Former Shell Site flows from the PVLF. As described in Section 2.3.3.1.2, the groundwater system associated with the PVLF plume appears to be distinct from the Development Area. Therefore, groundwater beneath the Former Shell Site does not appear to be impacting the Development Area.

Section 4: Fill Material Investigation

4.1 Subsurface Investigation Objectives and Approach

Kennedy/Jenks and RP Torrance participated in a number of meetings and phone conversations with the DTSC team to identity potential concerns and develop an appropriate approach to the assess nature of the fill materials used in the Development Area by Pacific Soils (February 2010). These discussions resulted in a draft technical memorandum that was reviewed and accepted by the DTSC, but never finalized (Kennedy/Jenks, 2017). Relevant aspects of the approach as modified based on discussions with the DTSC are summarized below:

- As documented in the *17 February 2010 Geotechnical Report of Compacted Fill Placement Report* prepared by Pacific Soils Engineering, Inc., the Development Area overlays the following three zones of fill material:

    - The deeper zone (Zone 3) is assumed to consist of native Project Site soils that were excavated during historic mining activities, and later replaced.
    - The intermediate zone consists of material brought onsite from the Sunrise Senior Living development property to the south, a portion of which included the Former Shell Site [Zone 2].
    - The upper zone consists of material brought in from various small construction sites around the Palos Verdes Peninsula [Zone 1].

- The fill investigation was to assess the upper two zones of fill (Zones 1 and 2). Zone 3 soils do not require assessment because:

    - They are comprised of native material sourced from the excavated hillside and pit.
    - Volatile aspects, if any, related to historic mining activities that may have impacted the proposed development will be assessed with the proposed soil vapor sampling scope of work.
    - Given the groundwater conditions associated with the Development Area (described herein in Section 2.3.3.1.2), the potential for impacts to groundwater related to historic mining activities are of limited concern.

- DTSC's *October 2001 Information Advisory on Clean Imported Fill Material* (Guidance) was used as a guide to develop specific sampling approaches for Zone 1 and 2 as described below:

    - Total Number of Samples - The Guidance is written for material prior to import, however, our conditions involved soils that have already been imported to the Development Area. Therefore, it was decided that using the area approach specified in the Recommended Fill Material Sampling Schedule for the number of samples was appropriate. The guidance recommends a minimum of 8 samples for a borrow area between 4 and 10 acres. DTSC and Kennedy/Jenks therefore agreed that a total of ten borings would be advanced with individual samples collected from Zones 1 and 2.

- Constituents of Potential Concern (COPCs) - Because soil in Zone 1 is of uncertain origin, this material was evaluated for all COPCs referenced in DTSC's Guidance. Since Zone 2 soil comes from a known location in which gasoline services were historically conducted, these soils were evaluated for Total Petroleum Hydrocarbons – Carbon Chain Identification, metals, and Volatile Organic Compounds (soil vapor).
- Soil vapor step-out and step-down samples were required to evaluate the detections of toluene (2.2 micrograms per liter (μg/L) in SV-2 at 5 feet below the ground surface [bgs]) and benzene (0.15 μg/L in SV-8 at 5 feet bgs) observed during Kennedy/Jenks' 25 August 2015 soil vapor investigation. Soil vapor samples targeting depths of 5 and 15 feet bgs were deemed appropriate.

- Due to the difficulties in obtaining access to the Proposed Development property, investigative activities were allowed to proceed in a dynamic fashion where Kennedy/Jenks and the DTSC discussed the analytical results in real time and modified the sampling and analysis plan to ensure the Development Area was adequately characterized.

4.1.1 Soil Sampling Activities

Kennedy/Jenks completed the fill material investigation in January of 2018 that consisted of drilling a total of 11 soil borings with samples collected at depths ranging from 1.5 to 25 feet bgs (Tables 2 through 6, Figure 3). H&P Mobile Geochemistry, Inc. (H&P) advanced the borings for soil sampling on 3 and 4 January 2018 using a Geoprobe™ hydraulic push/drive rig. A second mobilization was performed on 6 January 2018 with BC2 Environmental. The Geoprobe™ rig advances 4-foot long steel rods where the lead rod is fitted with an acetate liner. Upon drilling the length of the 4-foot steel rod, the core-filled acetate liner is removed and replaced with a new liner until the maximum depth is reached. Sections were cut from the liner at desired depths, labeled, capped, and placed in a cooler chilled to 4 degrees Celsius for transport to the laboratory under proper chain-of-custody protocols. Liner sections not retained for samples were cut open and logged, and excess soil was stockpiled onsite.

Soil samples were collected from both Zone 1 and Zone 2 soils and analyzed for the constituents of concern described below based on the fill zone sampled:

Sample Analysis	Matrix	Analytical Method	Fill Horizon
SVOCs	Soil	EPA Method 8270C	Zone 1
Heavy Metals (Including Lead)	Soil	EPA Method 6010B/7471A	Zone 1
Chromium VI	Soil	EPA 7199/3060A	Zone 1
TPHcc (C6-C44)	Soil	EPA Method 8015M	Zone 1 & Zone 2
PCBs	Soil	EPA 8082	Zone 1
PAHs	Soil	EPA Method 8310	Zone 1
Organochlorine Pesticides	Soil	EPA 8081A	Zone 1
Organophosphorus Pesticides	Soil	EPA 8141A	Zone 1
Chlorinated Herbicides	Soil	EPA 8151A	Zone 1
Asbestos	Soil	OSHA Method ID-191	Zone 1
pH	Soil	EPA 9045C pH	Zone 1

Sample Analysis	Matrix	Analytical Method	Fill Horizon

EPA = United States Environmental Protection Agency
SVOCs = semivolatile organic compounds
TPHcc = Total petroleum hydrocarbons carbon chain
PCBs = polychlorinated Biphenyls
PAHs = polycyclic aromatic hydrocarbons

Upon completion of the sampling activities, H&P and BC2 backfilled each borehole with hydrated granular bentonite and patched the surface with native materials.

4.1.2 Soil Vapor Sampling Activities

A soil vapor survey was conducted in accordance with the July 2015 Advisory Active Soil Gas Investigations issued by the Regional Water Quality Control Board (RWQCB) and Department of Toxic Substances Control (DTSC) (the 2015 Advisory).

H&P advanced seven shallow borings on 3 January 2018 and three borings on 4 January 2018. BC2 advanced nine borings on 6 January 2018. Soil vapor boring depths ranged from 5 to 35 feet bgs, with temporary soil vapor wells constructed in each boring at the locations shown on Figure 3 and to the depths indicated in Table 7.

The temporary wells consisted of a small vapor implant placed at the desired depth with 1/8-inch Nylaflow™ tubing extending to the ground surface. The annulus around the implant was filled with fine (#30) sand extending up to 6 inches above the implant, and bentonite granules to the ground surface, except in nested probes, in which bentonite was placed up to 6-inches below the filter pack for the next higher probe implant.

H&P and Jones Environmental conducted shut-in tests to check for leaks in the sampling system prior to purging or sampling. The wells were allowed to equilibrate for 3 hours and then purged using a vacuum pump in accordance with the 2015 Advisory, three sample-train volumes were purged prior to sample collection.

Soil vapor samples were analyzed by H&P and Jones Environmental mobile laboratories for Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) Method 8260B. The mobile laboratory conducted the standard internal QA/QC procedures and replicated samples to ensure the data was acceptable.

Upon completion of the sampling activities, the temporary soil vapor wells were decommissioned by removing the tubing and, in some cases, the implant.

4.2 Investigation Results

Results of the soil and soil vapor sampling activities described below identify sporadic detections of the constituents of concern in both soil and soil vapor. Detections observed are generally consistent with the fill zone designations such that Zone 2 detections are typically fuel-related whereas Zone 1 impacts include a variety of minor impacts that likely reflect material brought in as fill from various construction sites rather than a particular point source.

4.2.1 Screening Criteria Used

The screening criteria used for soil included the DTSC HHRA-Note 3 January 2018 recommended screening levels for residential soil. The EPA Regional Screening Level (RSL) Resident Soil Table was used when the DTSC SL was not available.

The screening criteria used for soil vapor is calculated from the DTSC Modified Screening Level for residential air, or the EPA Ambient Air RSL where there is no DTSC-SL. An attenuation factor of 0.001 is applied to adjust for soil vapor.

4.2.2 Soil Results

A total of 23 soil samples (including duplicates) were collected on 3 and 4 January 2018 that were analyzed for 167 different constituents of concern. A total of 38 detections were found, only 6 of which exceeded applicable screening levels.

Of the analyses listed in Section 4.1.1, there were no screening-level exceedances for chlorinated herbicides, organochlorine pesticides, organophosphorous pesticides, or TPHcc; and no detections for asbestos. pH was measured at levels ranging from 7.65 to 10.72.

Soil sampling results with screening-level exceedances are discussed below and a summary of all detections is presented on Tables 2 through 6 and Figures 16 through 18. The analytical reports have been included as Appendix C.

4.2.2.1 Screening-Level Exceedances for Metals

Only two metals (arsenic and hexavalent chromium) were detected above the DTSC or EPA RSL values for residential soil. These results are discussed below.

4.2.2.1.1 Arsenic

Arsenic was detected at concentrations ranging from 1.14 to 28.3 mg/kg, with only one of the 20 detections exceeding the background concentration of (12 mg/kg) established by the DTSC in their *Determination of a Southern California Regional Background Arsenic Concentration in Soil* (Figure 16 and Table 2). Arsenic was detected in the Zone 1 sample collected from KJ-09-15.5 at a concentration of 11.2 mg/kg, while the deeper Zone 2 sample collected from this location (KJ-09-25) contained 5.95 mg/kg. Arsenic was also detected in sample KJ-02-25 collected from Zone 2 soils at a concentration of 28.3 mg/kg, with the shallower Zone 1 sample collected from this location (KJ-02-5.5) containing 4.44 mg/kg. These boring locations are not co-located in the Development Area and therefore appear to be representative of isolated arsenic detections as opposed to a point source release.

4.2.2.1.2 Hexavalent Chromium

Hexavalent Chromium (Cr VI) was detected in three of the eleven Zone 1 soil samples analyzed, at concentrations ranging from 0.47 to 1.1 mg/kg. These samples exceed the HHRA RSL of 0.3 mg/kg (Figure 17, Table 2) and were collected from the following three locations:

- KJ-01-5.5 at a concentration of 0.47 mg/kg;

- KJ-07-15 at a concentration of 0.8 mg/kg and KJ-07-15 (Field Duplicate Sample) at a concentration of 1.1 mg/kg; and

- KJ-09-15.5 at a concentration of 0.47 mg/kg.

These boring locations are not co-located in the Development Area and therefore appear to be representative of isolated Cr VI detections as opposed to a point source release.

4.2.2.1.3 Semi-Volatile Organic Compounds and Polycyclic Aromatic Hydrocarbons

Select semi-volatile organic compounds and polycyclic aromatic hydrocarbons were detected at concentrations that exceeded their respective screening levels in the Zone 1 sample collected from KJ-02-5.5 (Table 3).

- Benzo(a)anthracene was detected in two samples at concentrations that ranged from 12 to 1,500 ug/kg. KJ-02-5.5 contained a concentration of 1,500 ug/kg, which exceeds the screening level of 1,100 ug/kg.

- Benzo(a)pyrene was detected in two samples at concentrations that ranged from 18 to 1,100 ug/kg. KJ-02-5.5 contained a concentration of 1,100 ug/kg, which exceeds the screening level of 110 ug/kg.

- Benzo(b)Fluoranthene was detected in two samples at concentrations that ranged from 12 to 1,200 ug/kg. KJ-02-5.5 contained a concentration of 1,200 ug/kg, which exceeds the screening level of 1,100 ug/kg.

Theses detections are isolated to this single sample and do not appear to be representative of a significant source area.

4.2.2.1.4 Polychlorinated Biphenyl's

The polychlorinated biphenyl's PCB-1260 (Aroclor) was detected in one of the eleven samples analyzed (Figure 18, Table 4). Aroclor was detected in the Zone 1 sample collected from KJ-02-5.5 at a concentration of 340 μg/kg. This detection exceeds the screening level for this compound of 240 μg/kg.

With only once constituent (Aroclor) exceeding its respective screening level, it doesn't appear that there is a significant source of PCBs at the Development Area.

4.2.2.2 Quality Assurance/Quality Control

Reusable drilling equipment was decontaminated using potable water and non-phosphate soap; the residual decontamination water was used to mix the cement to backfill the borings.

QA/QC samples included two duplicate soil samples, and two equipment blanks. The duplicate soil samples were collected at KJ-07-15 and KJ-07-19. Kennedy/Jenks collected equipment blanks by pouring retail distilled water over the advancement tip of the steel rod into a sample container and analyzing the sample for the same suite of constituents as the primary soil samples. QA/QC results are in relative agreement with the primary soil matrix samples.

4.2.3 Soil Vapor Results

A total of 46 soil vapor samples (including duplicates) were collected and analyzed for 69 different VOCs. Of the 46 samples analyzed, a total of 23 detections were found, only 8 of which exceeded applicable screening levels. Soil vapor sampling results with screening-level exceedances are discussed below and a summary of all detections is presented on Table 7 and Figures 19 and 20. The analytical reports have been included as Appendix D.

4.2.3.1.1 Tetrachloroethylene

Tetrachloroethylene (PCE) was detected in 18 soil vapor samples (including 1 duplicate sample) at concentrations that ranged from 0.034 to 5.46 ug/l. Of these samples, 6 detections exceeded the screening level of 0.46 ug/l. All exceedances occurred in the vicinity of SV-02C-3, with the highest concentration of 5.46 ug/l detected in the 15-foot bgs sample collected from this location (Figure 19). The PCE detections in soil vapor around SV-02C-3 are likely representative of a select cell of VOC-impacted soil brought in during the final stages of backfilling from various small construction sites around the Palos Verdes Peninsula (Zone 1 fill).

4.2.3.1.2 Dichloro-difluoromethane

Dichloro-difluoromethane was detected in 9 soil vapor samples at concentrations that ranged from 0.022 to 850 ug/l. Of these samples, 1 detection (SV-02C-15 at a concentration of 850 ug/l) exceeded the screening level of 100 ug/l. Similar to PCE, the dichloro-difluoromethane detections occurred in the vicinity of SV-02C-3 (Figure 20).

4.2.3.1.3 Benzene

Benzene was detected in two samples, one of which exceeded the screening level of 0.097 ug/l. Benzene was detected in SV-02C-3 at a concentration of 0.033 ug/l, and in sample SV-08-5 at a concentration of 0.15 ug/l. These boring locations are not co-located and therefore appear to be representative of isolated benzene detections rather than a point source release.

4.2.3.2 Quality Assurance/Quality Control

Reusable drilling equipment was decontaminated using potable water and non-phosphate soap; the residual decontamination water was used to mix the cement to backfill the borings.

QA/QC samples included three field duplicate soil vapor samples. The duplicate soil vapor samples were collected at SV-08B-15, SV-02C-25, and SV-02A-15. QA/QC results are in general agreement with the primary soil vapor samples.

Section 5: Development Area Conceptual Model

Based on the findings of the studies presented herein, Kennedy/Jenks offers the following narrative conceptual model of the Development Area.

Operations as a sand and diatomaceous earth quarry in the 1930s to 1950s resulted in a pit that extended in one area to a depth of approximately 74 feet bgs. As is customary for this type of operation, non-economic onsite-sourced quarry tailings appear to have been subsequently replaced into the base of the pit.

The property appears to have remained fallow until late 2008, when Pacific Soils completed a geotechnical assessment followed by backfill and compaction of the pit. During this activity, quarry tailings material deemed unsuitable was removed from the base of the pit, cleared of large debris, and recompacted into the base of the pit in what has been referred to as Zone 3 fill material. Material subsequently imported from the Sunrise Senior Living Development; a portion of which was occupied by a Former Shell Service Station that had been investigated, remediated, and closed under LARWQCB oversight; was placed into the pit and recompacted as Zone 2 fill material. The final stage of fill activities consisted of additional material imported from various small construction sites around the Palos Verdes Peninsula (Zone 1 fill material) that was necessary to complete the backfill activities.

The Project Site appears to by hydrogeologically separated from the topographically-driven groundwater associated with the Former PVLF and is structurally separated from the West Coast Basin by the Palos Verdes fault zone which locally acts as a partial barrier to groundwater flow. Therefore, very limited topographic drainage feeds the Project Site, meaning that infiltration to groundwater beneath the Project Site is not a significant source of water for the West Coast Basin. Geotechnical investigation activities that have occurred on the Project Site extended to a depth of 120.5 feet bgs without any indication of groundwater.

The majority of sample results produced during environmental investigations in the Development Area are below applicable screening levels. The small percentage of samples that did exceed screening levels were primarily in Zone 1. The sporadic occurrence and relatively low concentration of detected constituents is consistent with material imported from local construction sites and placed primarily into the upper portion of the former quarry pit (Zone 1).

Section 6: Screening-Level Human Health Risk Assessment

The California Department of Toxic Substances Control (DTSC) Office of Human and Ecological Risk (HERO) issued Human Health Risk Assessment (HHRA) Note 4 (2016), which provides the recommended methodology for conducting screening-level risk assessments. This risk assessment was conducted consistent with HHRA Note 4 (2016) guidance.

Screening-level risk assessments facilitate the determination of no further action or further evaluation. If the risks are acceptable using conservative screening-level assumptions, risks based on site-specific conditions should also be acceptable. Because conservative assumptions are used, unacceptable screening-level risks do not necessarily indicate that risks based on site-specific conditions would also be unacceptable.

6.1 Land Use and Human Receptors

The Project Site is currently undeveloped and vacant. RP Torrance intends to develop the Development Area into multifamily residential units. The remaining portions of the Project Site are severely sloped and will remain undeveloped. Therefore, future receptors at the Development Area are residents, and potential residential use was evaluated in this risk assessment.

6.2 Exposure Pathways

Chemicals have been detected in soil and soil vapor at the Development Area. Soil screening levels address potential exposure via ingestion, dermal absorption, and inhalation of particulates and volatilization. The soil screening levels do not account for exposure to indoor air due to vapor intrusion, which is evaluated using soil vapor screening levels and is discussed in more detail below. The soil screening levels also do not account for ingestion via uptake to plants, but that pathway is not anticipated to be significant for a multifamily residential development.

6.2.1 Vapor Intrusion

Indoor air screening levels address potential exposure via inhalation of indoor air. Soil vapor data provide a direct measurement of volatile organic compounds (VOCs) that may migrate to indoor air. Soil vapor screening levels were derived from the indoor air screening levels using DTSC's default attenuation factor. Because the land use is future residential, the default attenuation factor of 0.001 was used (DTSC 2011).

6.3 Exposure Point Concentrations

Consistent with HHRA Note 4 (DTSC 2016), the maximum detected concentrations were used as the exposure point concentrations for soil and soil vapor in this risk assessment. Chemicals that were detected in at least one sample in soil or soil vapor were included in this risk assessment. The exposure point concentrations are shown in Tables 8 and 9 for soil and soil vapor, respectively.

6.4 Screening Levels

Screening levels were selected consistent with HHRA Note 3 (DTSC 2018). If a DTSC-modified screening level (DTSC-SL) was available for a chemical, the DTSC-SL was used in this risk assessment. If a DTSC-SL was not available for a chemical, the U.S. Environmental Protection Agency (U.S. EPA) Regional Screening Level (RSL) was used (U.S. EPA 2018). The screening levels are shown in Tables 8 and 9 for soil and soil vapor, respectively.

The residential soil and residential indoor air screening levels for both noncancer and cancer endpoints were used in this risk assessment. The cancer screening levels were based on a target risk of 1×10^{-6}, and the noncancer screening levels were based on a target hazard quotient of 1.

For total petroleum hydrocarbons (TPH), the screening levels are based on the carbon range (low, medium, high) for aromatic and aliphatic fractions. The detected concentrations for TPH are for carbon chains of 23 and higher, so the high screening levels are applicable at the Development Area. Data regarding the aliphatic/aromatic fractions were not available, so the aromatic screening level, which is more conservative, was used.

6.5 Risk Characterization

Screening-level risks were calculated for noncancer and cancer endpoints. The noncancer screening-level risks were calculated by dividing the maximum detected concentration by the noncancer screening level. The cancer screening-level risks were calculated by dividing the maximum detected concentration by the cancer screening level and multiplying by 1 x 10-6. The screening level risks for soil and soil vapor are presented in Tables 8 and 9, respectively. The noncancer screening-level risks were summed for all chemicals to calculate the cumulative hazard index for both soil and soil vapor. The cumulative hazard index was compared with DTSC's target screening level hazard index of 1. The cancer screening-level risks were summed for all chemicals to calculate the cumulative cancer risk for both soil and soil vapor. The cumulative cancer risk was compared with DTSC's target screening level cancer risk of 1×10^{-6}.

For soil, the cumulative hazard index of 73 is higher than DTSC's target hazard index, indicating the potential for adverse noncancer effects. The cumulative cancer risk of 3×10^{-4} is higher than DTSC's target cancer risk, indicating the potential for unacceptable cancer risks. The noncancer hazard and cancer risks are primarily due to arsenic. Hexavalent chromium and benzo(a)pyrene also have cancer risks above DTSC's target cancer risk.

The lead screening level is protective of an incremental one microgram per deciliter increase in children's blood lead and is evaluated differently than the noncancer hazard. The maximum detected concentration of lead is less than the screening level for residential soil, so consistent with HHRA Note 3, the lead concentrations in soil beneath the Development Area are protective of children.

For soil vapor, the cumulative hazard index of 1 is equal to DTSC's target hazard index, indicating that adverse noncancer effects are unlikely. The cumulative cancer risk of 1×10^{-5} is higher than DTSC's target cancer risk, indicating the potential for unacceptable cancer risks.

The cancer risk is primarily due to tetrachloroethene (PCE). Benzene also has a cancer risk above DTSC's target cancer risk.

6.6 Ecological Risk Assessment

The screening levels used in this risk assessment do not address ecological receptors. However, the planned future use of the Development Area is development into multifamily residential units, so significant use of the site by ecological receptors is unlikely.

6.7 Conclusions

This screening level risk assessment was conducted to evaluate risks from chemicals in soil and soil vapor at the Development Area under future residential uses. The risks from chemicals in soil and soil vapor are higher than DTSC's target risk levels, indicating the potential for unacceptable risks if the Development Area were redeveloped for residential use without any mitigation. However, screening-level risk assessments are intended to be conservative, so the results do not necessarily determine that an unacceptable risk exists at the Development Area. The potential unacceptable risks associated with future residential use could be mitigated by minimizing or eliminating the exposure pathways to soil and soil vapor in the Development Area.

Section 7: Conclusions

It is the opinion of Kennedy/Jenks that the purpose of this report required by the CLRRA and as described in Section 1.3 has been fulfilled as summarized below.

7.1 Potential Landfill Gas Impacts from the PVLF

Based on the information and logic described in Section 3.1.2 and summarized below, it is our opinion that landfill gas migration from the Former PVLF to the Development Area is not occurring.

- The mostly inert solid waste material deposited in the most proximal portion of the Former PVLF (Ernie Howlett Park) generates limited quantities of landfill gas because it contains little organic material,
- Low-level quantities of landfill gas generated, if any, are mitigated by the gas collection systems installed at the Former PVLF, and
- Geologic and positional constraints prevent migration of landfill gas to the Development Area.

Therefore, no action with regard to landfill gas mitigation or monitoring is necessary for the Development Area.

7.2 Possible Impacts from Offsite Groundwater Sources

As detailed in Sections 3.1.3 and 3.2.4, it is our opinion that the shallow groundwater system associated with the Former PVLF (which includes Ernie Howlett Park located west of Hawthorne Boulevard), and Former Shell Site along Hawthorne Boulevard are one in the same and do not flow beneath the Development Area for the following reasons:

- Geologic constraints prevent hydraulic connection between the drainage fed by the Former PVLF and the Development Area, and
- Groundwater management through collection systems and remedial measures at the Former PVLF stems offsite migration of impacted groundwater to offsite properties.

7.3 Former Shell Site Impacted Soil Disposition

As detailed in Section 3.2.3, there is no evidence that impacted soil removed as part of the remedial work at the Former Shell Site was deposited in the Development Area. This activity took place under LARWQCB oversight and the disposition of impacted soil is well documented.

It is possible that some soil imported to the Development Area as Zone 2 fill from the Sunrise Senior Living development may have contained low levels of fuel-related constituents. A portion of the Sunrise development was occupied by the Former Shell Site and some fuel-related constituents below the regulatory screening levels were allowed to remain onsite by the

LARWQCB. However, this does not present a significant risk to the Development Area given that petroleum hydrocarbons and fuel-related VOCs were not detected in Zone 2 above their applicable screening levels during assessment activities.

7.4 Quarry Fill Nature and Associated Risks

Based on prior geotechnical reports and related studies, the former quarry appears to be backfilled with onsite-sourced quarry tailings at the base (Zone 3); soil imported from the Sunrise Senior Living development above this (Zone 2); and a final layer of material imported from various other constructions sites in the Palos Verdes area at the surface (Zone 1). Site assessment data collected from these zones generally support this conclusion, with local exceptions.

The majority of sample results produced during site assessment in the Development Area were below applicable screening levels. The small percentage of samples that did exceed screening levels were primarily in Zone 1. The sporadic occurrence and relatively low concentration of detected constituents is consistent with material imported from local construction sites and placed in lifts primarily into the upper portion of the former quarry pit (Zone 1).

A screening-level risk assessment using the maximum concentration of each detected constituent was conducted to evaluate risks from chemicals in soil and soil vapor at the Development Area under future residential uses. The risks from chemicals in soil and soil vapor are higher than DTSC's target risk levels, indicating the potential for unacceptable risks if the Development Area were redeveloped for residential use without any mitigation measures. However, screening-level risk assessments are intended to be conservative, so the results do not necessarily determine that an unacceptable risk exists at the Site. The potential unacceptable risks associated with future residential use could be mitigated by minimizing or eliminating the exposure pathways to soil and soil vapor in the Development Area.

7.5 Data Sufficiency

Findings of the screening-level risk assessment indicate that risks are above the levels generally accepted by the DTSC for unrestricted reuse of the Development Area. Therefore, it will be necessary to move to the next level under the CLRRA and prepare a Response Plan to properly manage the potential risks posed by the contaminants detected in fill material.

It is Kennedy/Jenks opinion that the data obtained to date are sufficient to prepare an appropriate Response Plan and therefore no further sampling is necessary.

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Tables

Table 1: Depth of Fill Material

RP Torrance LLC.

Boring ID	Depth of Fill	Top of Mine Tailings Backfill (1)	Maximum Depth of Noted Construction Debris (2)	Debris Described	Current Elevation	Final Floor Elevation
Boring 2	8	NA	3.5	Brick and concerete fragments (1.5 - 3.5), brick fragments (3.5)	210	
Boring 3	13.5	7	2.5	Brick Debris (0 - 2.5), concerete fragments (2.5)	201-204	190.75-193.9
Boring 4	50.5	26.5	23.5	Wood fragments (17.5), plastic tarp debris (23.5)	191-194	
Boring 5	26	17	13.5	Plastic PVC pipe (13.5)	186-189	190.5
Boring 6	20	12	6.5	Brick fragments (4 - 6.5)	186-189	190.5
Boring 7	25	20	18	Metal wire debris (13); wood debris, metal scrap, paper (13.5 - 16.5); metal debris (16.5 - 18)	191-194	190.5
Boring 8	36	26.5	22.5	Brick fragments (0 - 5), plastic piping (22.5)	211-214	193.5
Boring 9	20	15.5 (5.5?)	4	Paper fragments	240-244	191.67
Boring 10	3	3	None Observed	--	236-239	190.75-193.9
Boring 11	5	5	None Observed	--	240	191.67
Boring 12	38	15	3	Glass and brick fragments	241-244	191.67
Boring 13	7.5	NA	None Observed	--	191-194	193.5
Boring 13A	15	12.5	None Observed	--	191-194	193.5
Boring 14	9	3.5	1.25	Concrete fragment	216-219	
Boring 14A	23.5	19.5	None Observed	--	216-219	
Boring 15	20	10	8.5	Tree branch	216-219	
Boring 16	2	NA	None Observed	--	191-194	190.5
Boring 17	46	26.5 (16.5?)	16.5	Trace brick fragments (9 - 16.5)	186-189	190.5
Boring 18	27	12	9	Glass debris	195	193.5
Boring 19	49	27	23	Wood debris	211-214	193.5
Boring 20	74	27.5	21	Plastic debris	191-194	
Boring 21	0	0	None Observed	--	236-239	191.67
Boring 22	27	12 (7?)	None Observed	--	201-204	190.75-193.9
Boring 23	11	0	None Observed	--	236-239	190.75-193.9
Boring 24	32	0	None Observed	--	240-244	191.67
Hand Auger 1	2.5	0	None Observed	--	201-204	190.5
Hand Auger 2	3	0	None Observed	--	196-199	190.5
Hand Auger 3	5.5	0	None Observed	--	206-209	191.67
Hand Auger 4	5	0	None Observed	--	231-234	
Hand Auger 5	3	2	2	Heavy amount of trash (1.5-2)	226-229	
Hand Auger 6	2.5	1.5	1.5	Trash debris	251-254	

(1). Estimated depths are based on Geocon's field observations and familarity with native site soils in the area.

(2). Based on field observations captured on the boring logs provided in Appendix A.

Table 2: Soil Results - Metals

RP Torrance LLC.

Location	Date	Sample Depth	Sample Type	Sample Zone	pH SW9045C SU	Antimony SW6010B mg/kg	Arsenic[b] SW6010B mg/kg	Barium SW6010B mg/kg	Beryllium SW6010B mg/kg	Cadmium SW6010B mg/kg	Chromium, Hexavalent[c] SW7199 mg/kg	Chromium, total[d] SW6010B mg/kg	Cobalt SW6010B mg/kg	Copper SW6010B mg/kg	Lead SW6010B mg/kg	Mercury SW7471A mg/kg	Molybdenum SW6010B mg/kg	Nickel SW6010B mg/kg	Selenium SW6010B mg/kg	Silver SW6010B mg/kg	Thallium[e] SW6010B mg/kg	Vanadium SW6010B mg/kg	Zinc SW6010B mg/kg
Chemical Method Unit																							
Final Screening Level[a]						31	12	15,000	15	5.2	0.3	36,000	23	3,100	80	1	390	490	390	390	0.78	390	23,000
KJ-01	1/4/2018	5.5 ft		1	7.65	< 0.746	**8.10**	**544**	< 0.249	**1.20**	**0.47**	**31.7**	**4.53**	**20.9**	**2.02**	< 0.0794	**4.68**	**26.7**	**1.85**	< 0.249	< 0.746	**42.4**	**49.1**
KJ-01	1/4/2018	15.0 ft		3		**0.991**	**5.13**	**1,420**	< 0.243	**1.56**		**29.6**	**1.59**	**15.2**	**1.25**	< 0.0847	**2.79**	**24.2**	< 0.728	< 0.243	< 0.728	**62.7**	**39.0**
KJ-02	1/4/2018	5.5 ft		1	8.04	< 0.781	**4.44**	**205**	**0.403**	**0.746**	< 0.2	**47.0**	**9.66**	**24.2**	**32.7**	< 0.0847	**2.05**	**19.5**	< 0.781	< 0.260	< 0.781	**42.1**	**112**
KJ-02	1/4/2018	25.0 ft		2		**1.37**	**28.3**	**1,570**	**0.774**	**1.57**		**50.1**	**13.2**	**29.8**	**8.00**	**0.168**	**1.23**	**37.8**	**0.909**	< 0.246	< 0.739	**101**	**81.5**
KJ-03	1/4/2018	5.0 ft		1		< 0.743	**4.44**	**126**	**0.374**	**0.504**		**22.3**	**7.61**	**17.8**	**17.1**	< 0.0847	< 0.248	**16.0**	< 0.743	< 0.248	< 0.743	**35.9**	**80.3**
KJ-03	1/4/2018	11.0 ft		3		**0.798**	**4.64**	**538**	< 0.244	**0.870**		**24.6**	**3.83**	**15.0**	**2.13**	< 0.0794	**2.30**	**19.5**	**1.00**	< 0.244	< 0.732	**34.4**	**39.8**
KJ-04	1/3/2018	2.5 ft		1	8.79	< 0.721	**3.33**	**263**	< 0.240	< 0.481	< 0.2	**7.38**	**1.52**	**3.77**	**0.923**	< 0.0847	**0.579**	**5.90**	< 0.721	< 0.240	< 0.721	**15.5**	**12.5**
KJ-04	1/3/2018	10.0 ft		2		< 0.732	**4.22**	**289**	< 0.244	< 0.488		**5.58**	**1.27**	**3.36**	**0.895**	< 0.0806	**2.68**	**5.19**	< 0.732	< 0.244	< 0.732	**13.1**	**12.4**
KJ-05	1/4/2018	4.0 ft		1	7.67	< 0.761	**4.64**	**193**	< 0.254	**1.78**	< 0.2	**29.8**	**3.28**	**19.5**	**2.85**	< 0.0877	**2.67**	**28.5**	**1.34**	< 0.254	< 0.761	**62.2**	**48.1**
KJ-05	1/4/2018	10.0 ft		2		< 0.718	**3.66**	**311**	< 0.239	**2.61**		**33.1**	**3.82**	**23.1**	**4.67**	< 0.0806	**2.92**	**35.2**	< 0.718	< 0.239	< 0.718	**66.9**	**54.7**
KJ-06	1/3/2018	5.5 ft		1	7.78	< 0.761	**3.77**	**1,020**	**0.411**	**1.80**	< 0.2	**37.8**	**13.9**	**26.6**	**5.08**	< 0.0833	**0.709**	**44.4**	< 0.761	< 0.254	< 0.761	**56.3**	**50.2**
KJ-06	1/3/2018	10.0 ft		2		< 0.746	**3.60**	**386**	< 0.249	< 0.498		**11.8**	**2.43**	**5.61**	**1.43**	< 0.0847	**0.800**	**8.75**	< 0.746	< 0.249	< 0.746	**21.6**	**20.3**
KJ-07	1/4/2018	15.0 ft		1	7.84	< 0.746	**4.28**	**518**	< 0.249	**0.982**	**0.8**	**25.4**	**3.91**	**12.6**	**3.31**	< 0.0820	**1.73**	**19.8**	< 0.746	< 0.249	< 0.746	**39.0**	**35.5**
KJ-07	1/4/2018	15.0 ft	FD	1	7.93	< 0.746	**4.62**	**527**	< 0.249	**1.00**	**1.1**	**25.5**	**3.93**	**12.7**	**3.38**	< 0.0847	**1.72**	**20.0**	< 0.746	< 0.249	< 0.746	**39.3**	**35.9**
KJ-07	1/4/2018	19.0 ft	FD	2		< 0.721	**4.85**	**458**	< 0.240	**1.03**		**24.4**	**3.34**	**12.9**	**2.45**	< 0.0794	**1.88**	**19.5**	< 0.721	< 0.240	< 0.721	**38.8**	**35.8**
KJ-08	1/4/2018	5.0 ft		1	10.72	< 0.739	**1.14**	**84.3**	< 0.246	< 0.493	< 0.2	**8.16**	**1.34**	**3.12**	**0.982**	< 0.0806	< 0.246	**4.25**	< 0.739	< 0.246	< 0.739	**14.2**	**12.9**
KJ-08	1/4/2018	15.0 ft		2		< 0.758	**2.84**	**44.9**	< 0.253	< 0.505		**10.7**	**1.28**	**3.63**	**0.921**	< 0.0862	**1.23**	**4.31**	< 0.758	< 0.253	< 0.758	**10.7**	**13.0**
KJ-09	1/4/2018	15.5 ft		1	7.94	< 0.758	**11.2**	**351**	**0.289**	**1.87**	**0.47**	**44.5**	**5.77**	**37.5**	**2.81**	< 0.0806	**7.11**	**42.5**	**3.92**	< 0.253	< 0.758	**51.4**	**73.4**
KJ-09	1/4/2018	25.0 ft		2		< 0.758	**5.95**	**914**	**0.284**	**1.57**		**51.0**	**7.04**	**24.2**	**5.43**	< 0.0862	**4.35**	**36.4**	< 0.758	< 0.253	< 0.758	**57.1**	**68.7**
KJ-10	1/3/2018	10.0 ft		1	8.83	**0.990**	**3.06**	**138**	< 0.245	< 0.490	< 0.2	**9.59**	**2.39**	**3.90**	**1.02**	< 0.0820	**0.274**	**5.68**	< 0.735	< 0.245	< 0.735	**16.1**	**14.5**
KJ-10	1/3/2018	15.0 ft		2		< 0.728	**1.20**	**134**	< 0.243	< 0.485		**6.28**	**1.48**	**4.00**	**0.688**	< 0.0794	< 0.243	**3.82**	< 0.728	< 0.243	< 0.728	**14.2**	**11.5**
SV-02C	1/6/2018	15.0 ft		2	8.37	< 0.735	**3.17**	**260**	< 0.245	**0.663**	< 0.2	**18.5**	**3.75**	**8.77**	**2.81**	< 0.0781	**1.78**	**14.6**	< 0.735	< 0.245	< 0.735	**32.7**	**30.3**

FD = field duplicate
mg/kg = milligrams per kilogram
SU = standard pH unit
Screening Level Exceedance

Sample Zone:
1 = Material brought in from various small construction sites around the Palos Verdes Peninsula.
2 = Material brought onsite from the property to the south, which included a former Shell Gasoline Station.
3 = Mine tailings backfill.

(a) Screening level is the DTSC Modified Screening Level for residential soil, or the EPA RSL where there is no DTSC-SL.
(b) For arsenic, the applied screening level is the background concentration established by DTSC in their Determination of a Southern California Regional Background Arsenic Concentration in Soil.
(c) Results for hexavalent chromium are shown using the method detection limit. The lab did not detect hexavalent chromium between the MDL and reporting limit (0.4 mg/kg).
(d) For total chromium, the applied screening level is the DTSC-SL for trivalent chromium.
(e) For thallium in sample KJ-02-5.5, the reporting limit exceeds the screening level. However, thallium was not detected above the method detection limit (0.158 mg/kg) so it is not flagged as an exceedance.

Table 3: Soil Results - SVOCs

RP Torrance LLC.

Location	Date	Sample Depth	Sample Type	Sample Zone	Benzidine 8270C ug/kg	Benzo(a)anthracene 8270C ug/kg	Benzo(a)anthracene 8310 ug/kg	Benzo(a)pyrene[b] 8270C ug/kg	Benzo(a)pyrene[b] 8310 ug/kg	Benzo(b)Fluoranthene 8270C ug/kg	Benzo(b)Fluoranthene 8310 ug/kg	Benzo(k)Fluoranthene 8270C ug/kg	Benzo(k)Fluoranthene 8310 ug/kg	bis(2-Chloroethyl) ether 8270C ug/kg	Chrysene 8270C ug/kg	Chrysene 8310 ug/kg	Dimethyl phthalate 8270C ug/kg	Fluoranthene 8270C ug/kg	Fluoranthene 8310 ug/kg	Indeno (1,2,3-c,d) Pyrene 8310 ug/kg	n-Nitroso-dimethylamine 8270C ug/kg	n-Nitrosodi-n-Propylamine 8270C ug/kg	Phenanthrene 8310 ug/kg	Pyrene 8270C ug/kg	Pyrene 8310 ug/kg
Final Screening Level[a]					**0.53**	**1,100**	**1,100**	**110**	**110**	**1,100**	**1,100**	**11,000**	**11,000**	**230**	**110,000**	**110,000**		**2,400,000**	**2,400,000**	**1,100**	**2**	**78**		**1,800,000**	**1,800,000**
KJ-01	1/4/2018	5.5 ft		1	< 9,900	< 500	< 10	< 500	< 10	< 500	< 10	< 500	< 10	< 2,500	< 500	< 10	< 500	< 500	< 10	< 10	< 500	< 500	< 10	< 500	< 10
KJ-02	1/4/2018	5.5 ft		1	< 10,000	**1,500**	**12**	**1,100**	**21**	**1,200**	**16**	**1,300**	< 10	< 2,500	**1,700**	**17**	**530**	**1,500**	**30**	< 10	< 500	< 500	**11**	**1,700**	**31**
KJ-04	1/3/2018	2.5 ft		1	< 10,000	< 500	< 9.9	< 500	< 9.9	< 500	< 9.9	< 500	< 9.9	< 2,500	< 500	< 9.9	< 500	< 500	< 9.9	< 9.9	< 500	< 500	< 9.9	< 500	< 9.9
KJ-05	1/4/2018	4.0 ft		1	< 10,000	< 500	< 10	< 500	< 10	< 500	< 10	< 500	< 10	< 2,500	< 500	< 10	**570**	< 500	< 10	< 10	< 500	< 500	< 10	< 500	< 10
KJ-06	1/3/2018	5.5 ft		1	< 10,000	< 500	**12**	< 500	**18**	< 500	**12**	< 500	**10**	< 2,500	< 500	**16**	< 500	< 500	**32**	**19**	< 500	< 500	**11**	< 500	**30**
KJ-07	1/4/2018	15.0 ft		1	< 10,000	< 500	< 10	< 500	< 10	< 500	< 10	< 500	< 10	< 2,500	< 500	< 10	< 500	< 500	< 10	< 10	< 500	< 500	< 10	< 500	< 10
KJ-07	1/4/2018	15.0 ft	FD	1	< 10,000	< 500	< 10	< 500	< 10	< 500	< 10	< 500	< 10	< 2,500	< 500	< 10	< 500	< 500	< 10	< 10	< 500	< 500	< 10	< 500	< 10
KJ-08	1/4/2018	5.0 ft		1	< 10,000	< 500	< 9.9	< 500	< 9.9	< 500	< 9.9	< 500	< 9.9	< 2,500	< 500	< 9.9	**610**	< 500	< 9.9	< 9.9	< 500	< 500	< 9.9	< 500	< 9.9
KJ-09	1/4/2018	15.5 ft		1	< 10,000	< 500	< 10	< 500	< 10	< 500	< 10	< 500	< 10	< 2,500	< 500	< 10	< 500	< 500	< 10	< 10	< 500	< 500	< 10	< 500	< 10
KJ-10	1/3/2018	10.0 ft		1	< 10,000	< 500	< 10	< 500	< 10	< 500	< 10	< 500	< 10	< 2,500	< 500	< 10	**540**	< 500	< 10	< 10	< 500	< 500	< 10	< 500	< 10
SV-02C	1/6/2018	15.0 ft		2	< 10,000	< 500	< 10	< 500	< 10	< 500	< 10	< 500	< 10	< 2,500	< 500	< 10	< 500	< 500	< 10	< 10	< 500	< 500	< 10	< 500	< 10

FD = field duplicate
ug/kg = micrograms per kilogram
Screening Level Exceedance

Sample Zone:
1 = Material brought in from various small construction sites around the Palos Verdes Peninsula.
2 = Material brought onsite from the property to the south, which included a former Shell Gasoline Station.

(a) Screening level is the DTSC Modified Screening Level for residential soil, or the EPA RSL where there is no DTSC-SL.
(b) For benzo(a)pyrene and dibenz(a,h)anthracene analyzed by SW8270C, the reporting limit exceeds the screening level. However, where the result analyzed by SW8310 is below the screening level, it is not considered an exceedance under method SW8270C.

Table 4: Soil Results - PCBs and Pesticides

RP Torrance LLC.

Location	Date	Sample Depth	Sample Type	Sample Zone	Chemical Method Unit / Final Screening Level[(a)]	Dalapon SW8151A ug/kg 1,900,000	PCB-1260 (Aroclor SW8082 ug/kg 240	4,4'-DDE SW8081A ug/kg 2,000	4,4'-DDT SW8081A ug/kg 1,900
KJ-01	1/4/2018	5.5 ft		1		**250**	< 50	< 5.0	< 5.0
KJ-02	1/4/2018	5.5 ft		1		< 250	**340**	**11**	**44**
KJ-04	1/3/2018	2.5 ft		1		< 250	< 50	< 5.0	< 5.0
KJ-05	1/4/2018	4.0 ft		1		< 250	< 50	< 5.0	< 5.0
KJ-06	1/3/2018	5.5 ft		1		< 250	< 50	**8.0**	< 5.0
KJ-07	1/4/2018	15.0 ft		1		< 250	< 50	< 5.0	< 5.0
KJ-07	1/4/2018	15.0 ft	FD	1		< 250	< 50	< 5.0	< 5.0
KJ-08	1/4/2018	5.0 ft		1		< 250	< 50	< 5.0	< 5.0
KJ-09	1/4/2018	15.5 ft		1		< 250	< 50	< 5.0	< 5.0
KJ-10	1/3/2018	10.0 ft		1		< 250	< 50	< 5.0	< 5.0
SV-02C	1/6/2018	15.0 ft		2		< 250	< 50	< 5.0	< 5.0

FD = field duplicate
ug/kg = micrograms per kilogram
Screening Level Exceedance

Sample Zone:
1 = Material brought in from various small construction sites around the Palos Verdes Peninsula.
2 = Material brought onsite from the property to the south, which included a former Shell Gasoline Station.

(a) Screening level is the DTSC Modified Screening Level for residential soil, or the EPA RSL where there is no DTSC-SL.

Table 5: Soil Results - TPHcc

RP Torrance LLC.

Location	Date	Sample Depth	Sample Type	Sample Zone	Total Petroleum Hydrocarbons (TPH) (C6-C44) mg/kg	Carbon Chain Range (C6) mg/kg	(C7) mg/kg	(C8) mg/kg	(C9-C10) mg/kg	(C11-C12) mg/kg	(C13-C14) mg/kg	(C15-C16) mg/kg	(C17-C18) mg/kg	(C19-C20) mg/kg	(C21-C22) mg/kg	(C23-C24) mg/kg	(C25-C28) mg/kg	(C29-C32) mg/kg	(C33-C36) mg/kg	(C37-C40) mg/kg	(C41-C41) mg/kg
Chemical Unit																					
Final Screening Level[(a)]							82				96							2500			
KJ-01	1/4/2018	5.5 ft		1	**10**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
KJ-01	1/4/2018	15.0 ft		3	**11**	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9
KJ-02	1/4/2018	5.5 ft		1	**72**	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	**5.0**	**16**	**26**	**14**	< 4.9	< 4.9
KJ-02	1/4/2018	25.0 ft		2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
KJ-03	1/4/2018	5.0 ft		1	**160**	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	**34**	**57**	**29**	< 25	< 25
KJ-03	1/4/2018	11.0 ft		3	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9
KJ-04	1/3/2018	2.5 ft		1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
KJ-04	1/3/2018	10.0 ft		2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
KJ-05	1/4/2018	4.0 ft		1	**13**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
KJ-05	1/4/2018	10.0 ft		2	**260**	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	**47**	**100**	**65**	< 25	< 25
KJ-06	1/3/2018	5.5 ft		1	**11**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
KJ-06	1/3/2018	10.0 ft		2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
KJ-07	1/4/2018	15.0 ft		1	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9
KJ-07	1/4/2018	15.0 ft	FD	1	**6.4**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
KJ-07	1/4/2018	19.0 ft		2	**14**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
KJ-07	1/4/2018	19.0 ft	FD	2	**13**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
KJ-08	1/4/2018	5.0 ft		1	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9
KJ-08	1/4/2018	15.0 ft		2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
KJ-09	1/4/2018	15.5 ft		1	**10**	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9
KJ-09	1/4/2018	25.0 ft		2	**67**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**12**	**27**	**17**	< 5.0	< 5.0
KJ-10	1/3/2018	10.0 ft		1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
KJ-10	1/3/2018	15.0 ft		2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
SV-02C	1/6/2018	15.0 ft		2	**6.5**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

FD = field duplicate
mg/kg = milligrams per kilogram

Sample Zone:
1 = Material brought in from various small construction sites around the Palos Verdes Peninsula.
2 = Material brought onsite from the property to the south, which included a former Shell Gasoline Station.
3 = Mine tailings backfill.

(a) Screening level is the EPA RSL for residential soil because there is no DTSC Modified Screening Level for TPH. For each carbon chain range, the lowest screening level for aliphatics or aromatics is applied.

Table 6: Soil Results - Asbestos

RP Torrance LLC.

Location	Date	Sample Depths	Sample Type	Sample Zone	Asbestos %	Non-Asbestos, Non-Fibrous %
KJ-01	1/4/2018	4.5 ft		1	ND	100
KJ-02	1/4/2018	4.5 ft		1	ND	100
KJ-04	1/3/2018	1.5 ft		1	ND	100
KJ-05	1/4/2018	4.5 ft		1	ND	100
KJ-06	1/3/2018	4.5 ft		1	ND	100
KJ-07	1/4/2018	15.0 ft		1	ND	100
KJ-07	1/4/2018	15.0 ft	FD	1	ND	100
KJ-08	1/4/2018	5.0 ft		1	ND	100
KJ-09	1/4/2018	14.5 ft		1	ND	100
KJ-09	1/4/2018	24.0 ft		1	ND	100
KJ-10	1/3/2018	10.0 ft		1	ND	100
SV-02C	1/6/2018	15.0 ft		1	ND	100

FD = field duplicate
Sample Zone:
1 = Material brought in from various small construction sites around the Palos Verdes Peninsula.

Table 7: Soil Vapor Results - VOCs

RP Torrance LLC.

Location	Date	Sample Depth	Sample Type	Sample Zone	Sample ID	Benzene	Dichloro-difluoromethane	Ethylbenzene	Freon 113	PCE	Toluene	Trichloro-fluoromethane	Xylene, m,p-	Xylene, o-
Chemical						Benzene	Dichloro-difluoromethane	Ethylbenzene	Freon 113	PCE	Toluene	Trichloro-fluoromethane	Xylene, m,p-	Xylene, o-
CAS Number						71-43-2	75-71-8	100-41-4	76-13-1	127-18-4	108-88-3	75-69-4	XYLENES131	95-47-6
Unit						ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Final Screening Level[a]						0.097	100	1.1	5200	0.46	310	1300	100	100
SV-01	8/25/2015	5.0 ft			SV-1	< 0.10	< 0.50	< 0.50	< 0.50	< 0.10	< 1.0	< 0.50	< 0.50	< 0.50
SV-02	8/25/2015	5.0 ft		2 or N	SV-2	< 0.10	< 0.50	< 0.50	< 0.50	< 0.10	< 1.0	< 0.50	< 0.50	< 0.50
SV-02	1/3/2018	15.0 ft		2 or N	SV-02-15	< 0.08	< 0.40	< 0.40	< 0.40	< 0.08	< 0.80	< 0.40	< 0.40	< 0.40
SV-02A	1/3/2018	5.0 ft		1	SV-02A-5	< 0.08	< 0.40	< 0.40	< 0.40	< 0.08	**4.9**	< 0.40	**0.46**	< 0.40
SV-02A	1/3/2018	15.0 ft		3	SV-02A-15	< 0.08	< 0.40	< 0.40	< 0.40	< 0.08	< 0.80	< 0.40	< 0.40	< 0.40
SV-02A	1/3/2018	15.0 ft	FD	3	SV-02A-15 REP	< 0.08	< 0.40	< 0.40	< 0.40	< 0.08	< 0.80	< 0.40	< 0.40	< 0.40
SV-02B	1/3/2018	5.0 ft		1	SV-02B-5	< 0.08	< 0.40	< 0.40	< 0.40	< 0.08	< 0.80	< 0.40	< 0.40	< 0.40
SV-02B	1/3/2018	15.0 ft		2	SV-02B-15	< 0.08	< 0.40	< 0.40	< 0.40	< 0.08	< 0.80	< 0.40	< 0.40	< 0.40
SV-02C	1/4/2018	5.0 ft		1	SV-02C-5	< 0.08	**0.46**	< 0.40	< 0.40	< 0.08	< 0.80	< 0.40	< 0.40	< 0.40
SV-02C	1/4/2018	15.0 ft		2	SV-02C-15	< 0.08	**850**	< 0.40	**1.6**	< 0.08	< 0.80	**0.60**	< 0.40	< 0.40
SV-02C	1/6/2018	25.0 ft		2	SV-02C-25'	< 0.02	**0.022**	< 0.02	< 0.1	**0.4**	< 0.02	< 0.02	< 0.02	< 0.1
SV-02C	1/6/2018	25.0 ft	FD	2	SV-02C-25'	< 0.02	< 0.02	< 0.02	< 0.1	**0.287**	< 0.02	< 0.02	< 0.02	< 0.1
SV-02C	1/6/2018	35.0 ft		3	SV-02C-35'	< 0.02	< 0.02	< 0.02	< 0.1	**0.379**	< 0.02	< 0.02	< 0.02	< 0.1
SV-02C-1	1/6/2018	5.0 ft		1	SV-02C-1-5'	< 0.02	< 0.02	< 0.02	< 0.1	**1.33**	**0.258**	< 0.02	< 0.02	< 0.1
SV-02C-1	1/6/2018	15.0 ft		1	SV-02C-1-15'	< 0.02	**0.299**	< 0.02	< 0.1	**5.05**	**0.719**	< 0.02	**0.046**	< 0.1
SV-02C-1	1/6/2018	25.0 ft		2	SV-02C-1-25'	< 0.02	< 0.02	< 0.02	< 0.1	**1.21**	< 0.02	< 0.02	< 0.02	< 0.1
SV-02C-1	1/6/2018	35.0 ft		3	SV-02C-1-35'	< 0.02	< 0.02	< 0.02	< 0.1	**0.237**	**0.022**	< 0.02	< 0.02	< 0.1
SV-02C-2	1/6/2018	5.0 ft		1	SV-02C-2-5'	< 0.02	< 0.02	< 0.02	< 0.1	**0.075**	< 0.02	< 0.02	< 0.02	< 0.1
SV-02C-2	1/6/2018	15.0 ft		2	SV-02C-2-15'	< 0.02	**9.99**	< 0.02	< 0.1	**0.165**	**0.021**	< 0.02	< 0.02	< 0.1
SV-02C-2	1/6/2018	25.0 ft		2 or 3	SV-02C-2-25'	< 0.02	**0.786**	< 0.02	< 0.1	**0.433**	**0.023**	< 0.02	< 0.02	< 0.1
SV-02C-3	1/6/2018	5.0 ft		1	SV-02C-3-5'	< 0.02	< 0.02	< 0.02	< 0.1	**0.433**	**0.086**	< 0.02	< 0.02	< 0.1
SV-02C-3	1/6/2018	15.0 ft		1	SV-02C-3-15'	**0.033**	< 0.02	**0.174**	< 0.1	**5.46**	**13**	< 0.02	**0.594**	**0.158**
SV-02C-4	1/6/2018	5.0 ft		1	SV-02C-4-5'	< 0.02	< 0.02	< 0.02	< 0.1	**0.139**	< 0.02	< 0.02	< 0.02	< 0.1
SV-02C-4	1/6/2018	15.0 ft		1	SV-02C-4-15'	< 0.02	**0.543**	**0.056**	< 0.1	**0.086**	**1.55**	< 0.02	**0.301**	**0.111**
SV-02C-5	1/6/2018	5.0 ft		1	SV-02C-5-5'	< 0.02	< 0.02	< 0.02	< 0.1	**0.303**	**0.691**	< 0.02	< 0.02	< 0.1
SV-02C-5	1/6/2018	15.0 ft		1 or 2	SV-02C-5-15'	< 0.02	**1.59**	< 0.02	< 0.1	**2.46**	**0.52**	< 0.02	**0.038**	< 0.1
SV-02C-6	1/6/2018	5.0 ft		1	SV-02C-6-5'	< 0.02	< 0.02	< 0.02	< 0.1	**0.034**	**0.231**	< 0.02	< 0.02	< 0.1
SV-02C-6	1/6/2018	15.0 ft		1	SV-02C-6-15'	< 0.02	**0.237**	< 0.02	< 0.1	**0.531**	**1.11**	< 0.02	**0.036**	< 0.1
SV-03	8/25/2015	5.0 ft			SV-3	< 0.10	< 0.50	< 0.50	< 0.50	< 0.10	< 1.0	< 0.50	< 0.50	< 0.50
SV-04	8/25/2015	5.0 ft			SV-4	< 0.10	< 0.50	< 0.50	< 0.50	< 0.10	< 1.0	< 0.50	< 0.50	< 0.50
SV-04	8/25/2015	5.0 ft	FD		SV-4 REP	< 0.10	< 0.50	< 0.50	< 0.50	< 0.10	< 1.0	< 0.50	< 0.50	< 0.50
SV-05	8/25/2015	5.0 ft			SV-5	< 0.10	< 0.50	< 0.50	< 0.50	< 0.10	< 1.0	< 0.50	< 0.50	< 0.50
SV-06	8/25/2015	5.0 ft			SV-6	< 0.10	< 0.50	< 0.50	< 0.50	< 0.10	< 1.0	< 0.50	< 0.50	< 0.50
SV-07	8/25/2015	5.0 ft			SV-7	< 0.10	< 0.50	< 0.50	< 0.50	< 0.10	**2.2**	< 0.50	< 0.50	< 0.50
SV-08	8/25/2015	5.0 ft			SV-8	**0.15**	< 0.50	< 0.50	< 0.50	< 0.10	< 1.0	< 0.50	< 0.50	< 0.50
SV-08	1/3/2018	15.0 ft		2	SV-08-15	< 0.08	< 0.40	< 0.40	< 0.40	< 0.08	< 0.80	< 0.40	< 0.40	< 0.40
SV-08A	1/3/2018	5.0 ft		2	SV-08A-5	< 0.08	< 0.40	< 0.40	< 0.40	< 0.08	< 0.80	< 0.40	< 0.40	< 0.40
SV-08A	1/3/2018	15.0 ft		3 or N	SV-08A-15	< 0.08	< 0.40	< 0.40	< 0.40	< 0.08	< 0.80	< 0.40	< 0.40	< 0.40
SV-08B	1/4/2018	5.0 ft		2	SV-08B-5	< 0.08	< 0.40	< 0.40	< 0.40	< 0.08	< 0.80	< 0.40	< 0.40	< 0.40
SV-08B	1/4/2018	15.0 ft		N	SV-08B-15	< 0.08	< 0.40	< 0.40	< 0.40	< 0.08	< 0.80	< 0.40	< 0.40	< 0.40
SV-08B	1/4/2018	15.0 ft	FD	N	SV-08B-15 REP	< 0.08	< 0.40	< 0.40	< 0.40	< 0.08	< 0.80	< 0.40	< 0.40	< 0.40
SV-08C	1/3/2018	5.0 ft		2	SV-08C-5	< 0.08	< 0.40	< 0.40	< 0.40	< 0.08	< 0.80	< 0.40	< 0.40	< 0.40
SV-08C	1/3/2018	15.0 ft		2 or 3	SV-08C-15	< 0.08	< 0.40	< 0.40	< 0.40	< 0.08	< 0.80	< 0.40	< 0.40	< 0.40
SV-09	1/3/2018	5.0 ft		1	SV-09-5	< 0.08	< 0.40	< 0.40	< 0.40	< 0.08	< 0.80	< 0.40	< 0.40	< 0.40
SV-09	1/3/2018	15.0 ft		2	SV-09-15	< 0.08	< 0.40	< 0.40	< 0.40	< 0.08	< 0.80	< 0.40	< 0.40	< 0.40
SV-10	1/4/2018	4.0 ft		3	SV-10-4	< 0.08	< 0.40	< 0.40	< 0.40	< 0.08	< 0.80	< 0.40	< 0.40	< 0.40

FD = field duplicate
ug/l = micrograms per liter
Screening Level Exceedance
N = Native soils.

Sample Zone:
1 = Material brought in from various small construction sites around the Palos Verdes Peninsula.
2 = Material brought onsite from the property to the south, which included a former Shell Gasoline Station.
3 = Mine tailings backfill.

(a) Screening level is calculated from the DTSC Modified Screening Level for residential air, or the EPA RSL where there is no DTSC-SL. An attenuation factor of 0.001 is applied to adjust for soil vap

Table 8: Risk Assessment for Soil

RP Torrance LLC.

Chemical	Maximum Concentration (mg/kg)	Non-Cancer SL (mg/kg)	Cancer SL (mg/kg)	Non-Cancer Hazard	Cancer Risk
Antimony[2]	1.37	31	-	4.E-02	-
Arsenic[1]	28.3	0.4	0.11	7.E+01	3.E-04
Barium[2]	1570	15000	-	1.E-01	-
Beryllium[1]	0.774	15	1600	5.E-02	5.E-10
Cadmium[1]	2.61	5.2	2100	5.E-01	1.E-09
Cr (VI)[2]	1.1	230	0.30	5.E-03	4.E-06
Total Chromium[2]	51	-	-	-	-
Cobalt[2]	13.9	23	420	6.E-01	3.E-08
Copper[2]	37.5	3100	-	1.E-02	-
Lead[1, 3]	32.7	80	-	-	-
Mercury[1]	0.168	1	-	2.E-01	-
Molybdenum[2]	7.11	390	-	2.E-02	-
Nickel[1]	44.4	490	15000	9.E-02	3.E-09
Selenium[2]	3.92	390	-	1.E-02	-
Vanadium[1]	66.9	390	-	2.E-01	-
Zinc[2]	81.5	23000	-	4.E-03	-
Aroclor-1260[2]	0.34	-	0.24	-	1.E-06
Dalapon[2]	0.25	1900	-	1.E-04	-
4,4'-DDE[2]	0.011	23	2	5.E-04	6.E-09
4,4'-DDT[2]	0.044	37	1.9	1.E-03	2.E-08
Benzo(a)anthracene[2]	1.5	-	1.1	-	1.E-06
Benzo(a)pyrene[2]	1.1	18	0.11	6.E-02	1.E-05
Benzo(b)Fluoranthene[2]	1.2	-	1.1	-	1.E-06
Benzo(k)Fluoranthene[2]	1.3	-	11	-	1.E-07
Chrysene[2]	1.7	-	110	-	2.E-08
Dimethyl phthalate[4]	0.61	NA	NA	-	-
Fluoranthene[2]	1.5	2400	-	6.E-04	-
Indeno(1,2,3-c,d) Pyrene[2]	0.019	-	1.1	-	2.E-08
Phenanthrene[4]	0.011	NA	NA	-	-
Pyrene[2]	1.7	1800	-	9.E-04	-
Total Petroleum Hydrocarbons[2, 5]	260	2500	-	1.E-01	-
			Cumulative	**73**	**3.E-04**

1) DTSC- Recommended Screening Levels for Residential Soil January 2018

2) EPA- Regional Screening Level (RSL) Resident Soil Table May 2018

3) Lead was evaluated consistent with HHRA Note 3.

4) NA indicates that screening levels are not available for the chemical.

5) Total petroleum hydrocarbons were detected for carbon chains of 23 and higher, so the "Aromatic High" screening level was used.

Table 9: Risk Assessment for Residential Soil Vapor

RP Torrance LLC

Chemical	Maximum Concentration (ug/m^3)	Ambient Air Non-Cancer SL (ug/m^3)	Attenuated Soil Vapor Non-Cancer SL [3] (ug/m^3)	Ambient Air Cancer SL (ug/m^3)	Attenuated Soil Vapor Cancer SL [3] (ug/m^3)	Non-Cancer Hazard	Cancer Risk
Benzene[1]	150	3.1	3100	0.097	97	5.E-02	2.E-06
Dichlorodifluoromethane[2]	85000	100	100000	-	-	9.E-01	-
Ethylbenzene[2]	174	1000	1000000	1.1	1100	2.E-04	2.E-07
Freon 113[2]	1600	5200	5200000			3.E-04	-
Tetrachloroethylene[1]	5460	42	42000	0.46	460	1.E-01	1.E-05
Toluene[1]	13000	310	310000	-	-	4.E-02	-
Trichloroflouromethane[1]	600	1300	1300000	-	-	5.E-04	-
Xylene, m,p-[2]	594	100	100000	-	-	6.E-03	-
Xylene, o-[2]	158	100	100000	-	-	2.E-03	-

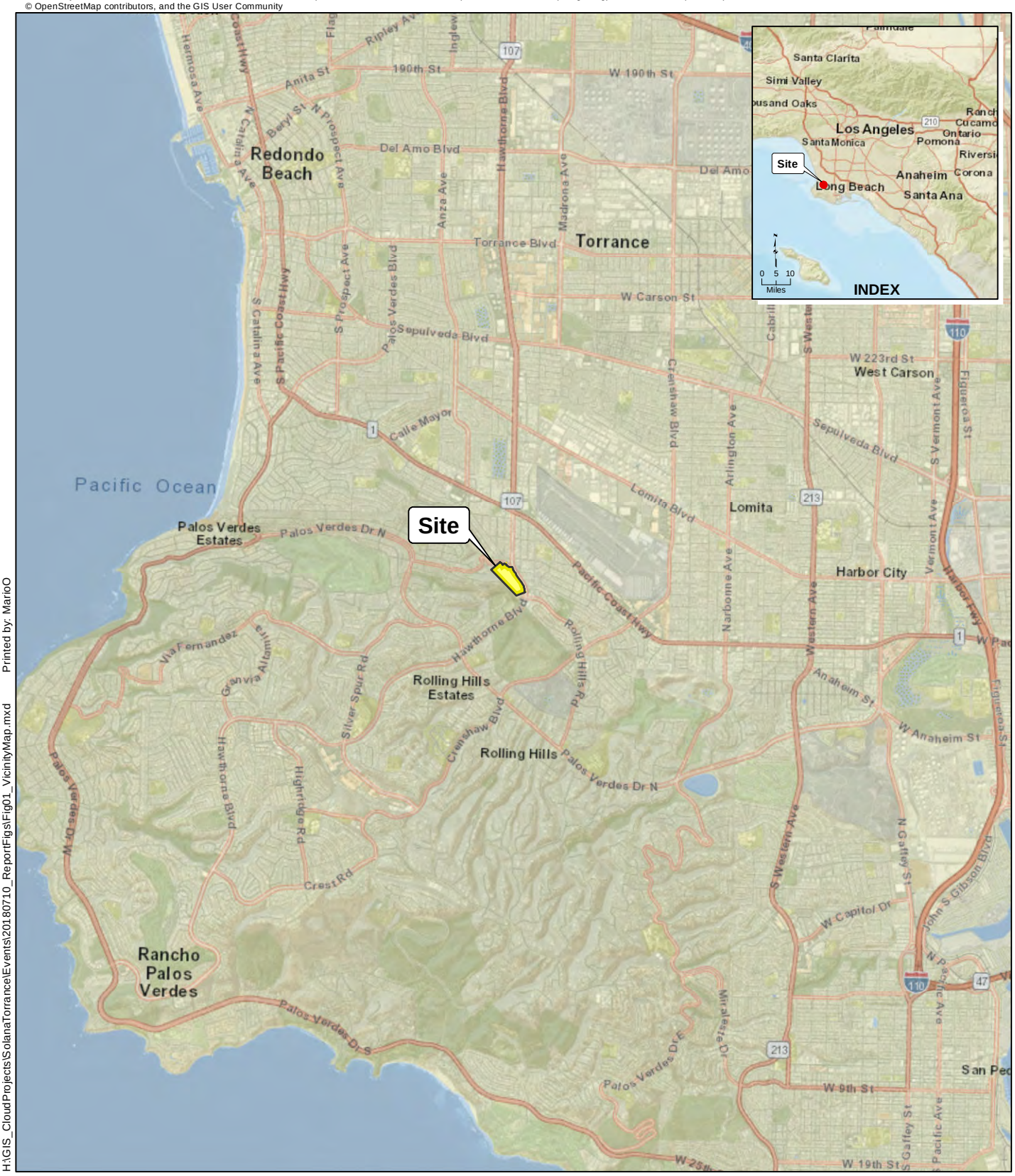
Cumulative Non-Cancer Hazard	Cumulative Cancer Risk
1	1.E-05

1) DTSC- Recommended Screening Levels for Residential Air HHRA Note 3

2) EPA- Regional Screening Level (RSL) Resident Ambient Air Table May 2018

3) Attenuation factor of 0.001 has been used according to DTSC VI guidance.

Figures



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Vicinity Map

K/J 1583018*01
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Figure 1

Legend

SiteBoundary

N

0 3,000 6,000
Feet

Esri, HERE, Garmin, © OpenStreetMap contributors
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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H:\GIS_CloudProjects\SolanaTorranceEvents\20180710_ReportFigs\Fig02_ProposedDevelopmentFootprint.mxd

Legend

- Approximate Edge of Fill Material
- Proposed Development Area
- Project Site

af	Artificial Fill
af/Qsp	Artificial Fill over Qsp
af/Qm and Qsp	Artificial Fill over Qm and Qsp
Qm	Marine Sand
Qsp	San Pedro Sand
Tm	Monterey Formation

N

0 40 80 160
Scale: Feet

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Torrance, California

Proposed Development Footprint

1583018*01
August 2018

Figure 2

Legend

- Kennedy/Jenks Soil Vapor Samples Locations
- Kennedy/Jenks Soil Boring Location
- B07 25 — Approximate Location of Large-Diameter Boring and Depth of Fill Material (GEOCON, 2015)
- HA04 5 — Approximate Location of Exploratory Trench and Depth of Fill Material (GEOCON, 2015)
- B20 74 — Approximate Location of Hollow Stem Auger Boring and Depth of Fill Material (GEOCON, 2017)
- Approximate Location of Percolation Test Boring (GEOCON, 2017)
- Approximate Location of Boring (Pacific Soils, 2005)
- Approximate Location of Boring (Western Laboratories, 1993)
- Approximate Location of Trench (Pacific Soils, 2004)
- Approximate Edge of Fill Material
- Proposed Development Area

af	Artificial Fill
af/Qsp	Artificial Fill over Qsp
af/Qm and Qsp	Artificial Fill over Qm and Qsp
Qm	Marine Sand
Qsp	San Pedro Sand
Tm	Monterey Formation

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Project Site Sample Locations

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Figure 3

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Source:
Water Replenishment District of Southern California, 2018. Regional Groundwater Monitoring Report Water Year 2016-2017, Central and West Coast Basins, Los Angeles County, California. Prepared by Water Replenishment District of Southern California. March 2018.

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WRD Nested Monitoring Wells

1583018*01
August 2018
Figure 4

Source:
Todd Engineers, 2009. Palos Verdes Landfill Five-Year Review, Rolling Hills Estates, California. Prepared by Todd Engineers. March 2009.

LEGEND

Historic Surface Drainage

A A' Geologic Cross Section

N

0 1000

Scale in Feet

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Historical Surface Drainages in the Vicinity of the Former Palos Verdes Landfill

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Figure 5

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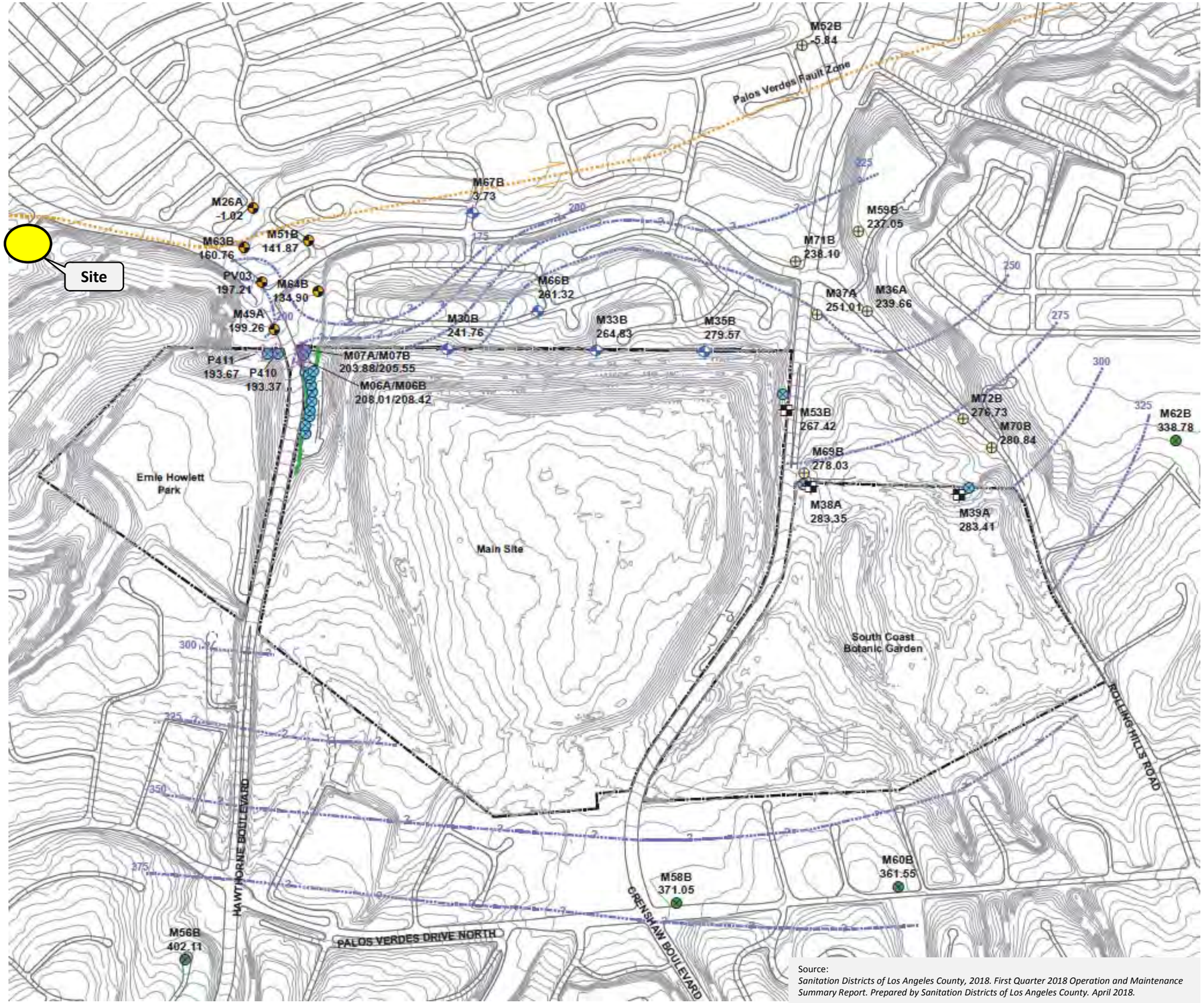

Source:
Sanitation Districts of Los Angeles County, 2018. First Quarter 2018 Operation and Maintenance Summary Report. Prepared by Sanitation Districts of Los Angeles County. April 2018.

Legend

- Downgradient Well Along Crenshaw Boulevard
- Downgradient Well Along Hawthorne Boulevard
- Northeast Boundary Well
- Onsite Well Along Crenshaw Boulevard
- Onsite Well Along Hawthorne Boulevard
- Upgradient Well
- Extraction Well
- Subsurface Barrier
- Property Boundary
- Groundwater contour (ft msl), dashed where approximate, queried where uncertain
- Street
- Fault Zone
- 402.11 Groundwater elevation (ft msl)

Notes:
1. ft msl = feet above mean sea level
2. Depth to water measurements were collected during October 2017.

0 250 500 750 1,000 Feet
(approximate)
Base map provided by County Sanitation Districts of Los Angeles County (2pv 100802.dgn)

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Groundwater Elevation Contour Map for Wells Associated with the Former Palos Verdes Landfill

1583018*01
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Figure 6

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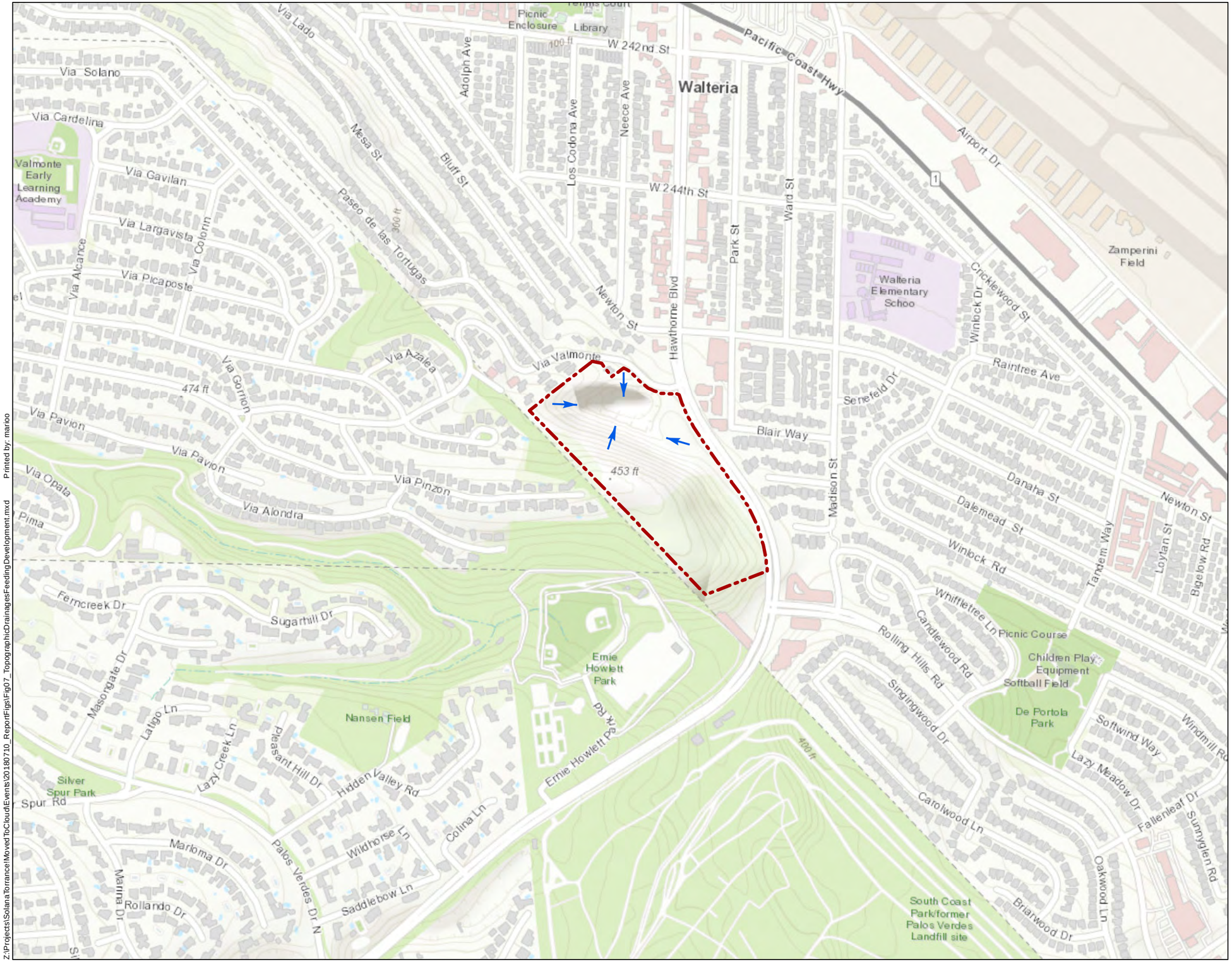
Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community



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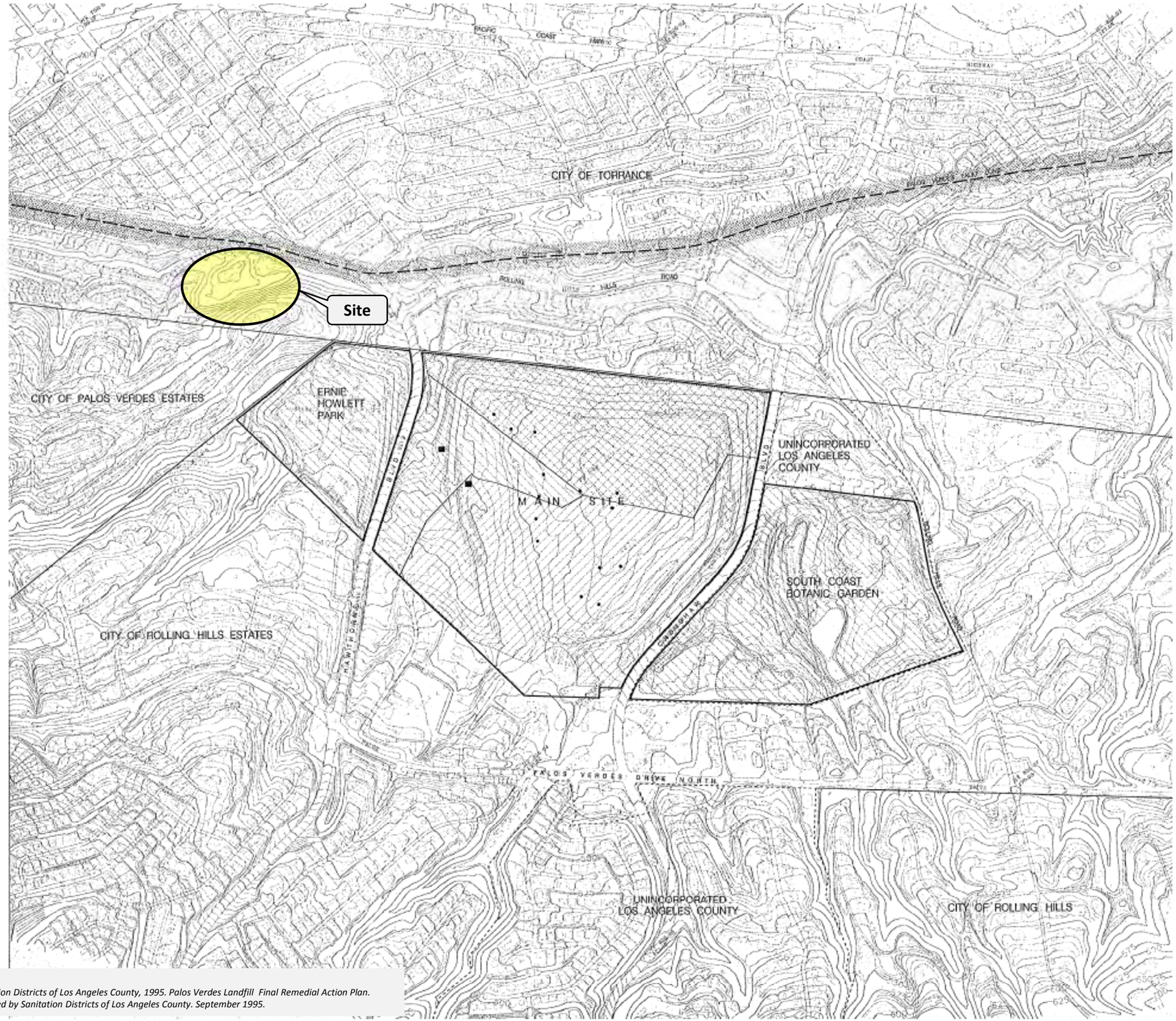
Torrance, California

Topographic Drainages Feeding the Development Site

1583018*01
August 2018

Figure 7



Source:
Sanitation Districts of Los Angeles County, 1995. Palos Verdes Landfill Final Remedial Action Plan. Prepared by Sanitation Districts of Los Angeles County. September 1995.

BOUNDARY OF CITY LIMITS

BOUNDARY OF UNINCORPORATED LOS ANGELES COUNTY

PROPERTY LINE

EXTENT OF REFUSE

CLASS I DISPOSAL AREA

CLASS II DISPOSAL AREA

ENGINEERED CLASS I DISPOSAL AREA

APPROXIMATE LOCATION OF LIQUID WASTE INJECTION WELL

APPROXIMATE LOCATION OF GETTY PROCESS WATER INJECTION WELL

0 200' 400' 800'
GRAPHIC SCALE

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Torrance, California

Former Palos Verdes Landfill Site Map

1583018*01
August 2018
Figure 8

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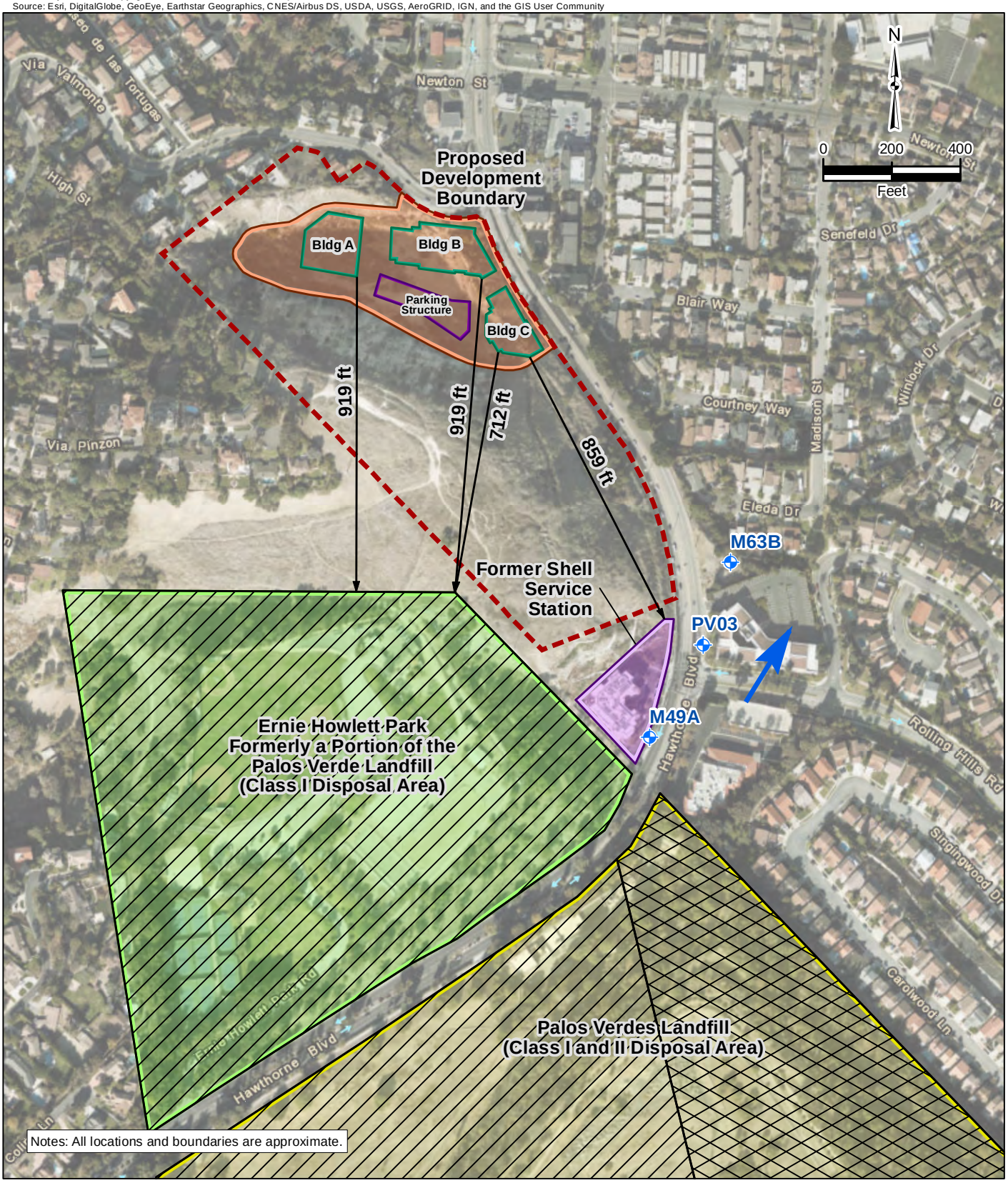

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Legend

- Subject Property Parcel Boundary
- PVLF Well
- Groundwater Flow Direction LACSD 4th Quarter 2016 Monitoring Report
- Class II Disposal
- Engineered Class I Disposal Area

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Torrance, California

Distance of Relevant Neighboring Sites to the Project Site

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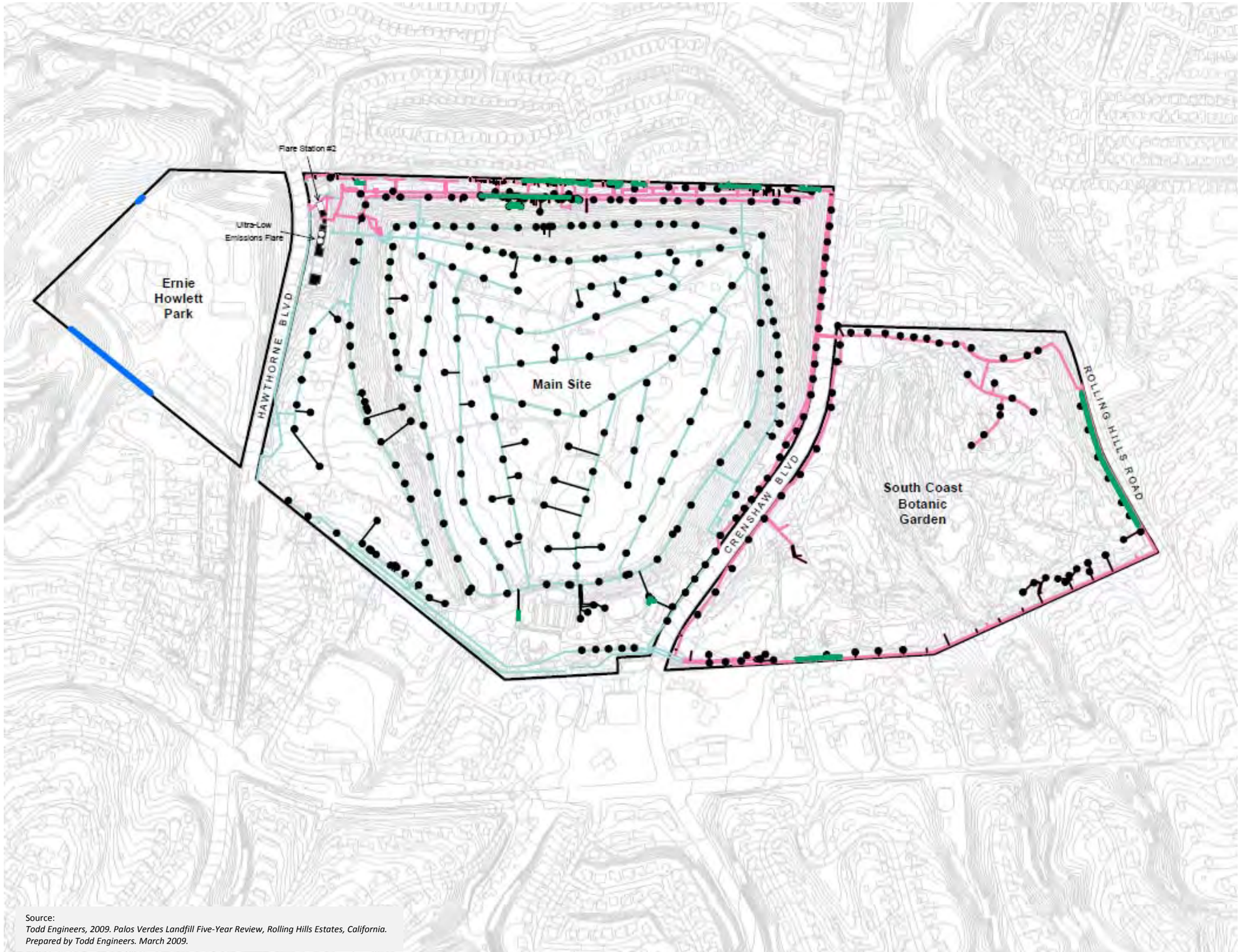
August 2018

Figure 9



Source:
Todd Engineers, 2009. Palos Verdes Landfill Five-Year Review, Rolling Hills Estates, California. Prepared by Todd Engineers. March 2009.

LEGEND

- Gas Well
- Trench (Passive)
- Trench (Active)
- Gas Headerline (Header 1)
- Gas Headerline (Header 2)
- Gas Collector Lateral

0 250 500 1,000 Feet

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Former Palos Verdes Landfill Gas Extraction System

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Figure 10

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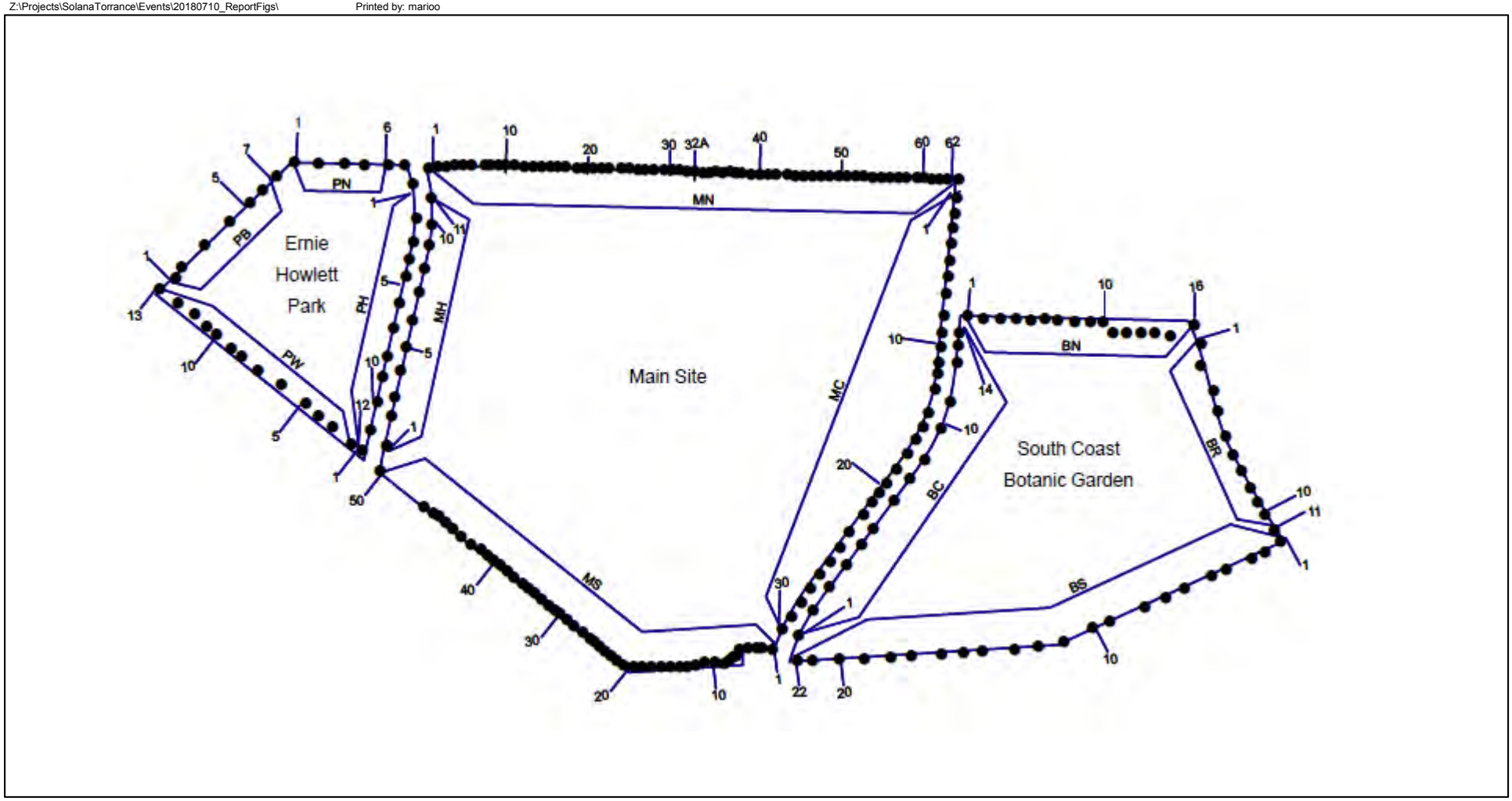

Source:
Sanitation Districts of Los Angeles County, 2015. Report Palos Verdes Landfill Second Five-Year Review. Prepared by Sanitation Districts of Los Angeles County. 6 January 2015.

Legend

- Boundary Probe
  (showing numbering and name)

0 250 500 1,000
Feet

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Former Palos Verdes Landfill Boundary Probe Locations

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Figure 11

MONITORING WELL NAME	FORMER BORING NAME
M50B	RFB3
M51B	RFB4
M52B	RFB13
M53B	RFB16
M54B	RFB20
M55B	RFB21
M56B	RFB24
M57B	RFB25
M58B	RFB26
M59B	RFB27
M60B	RFB29
M61B	RFB31
M62B	L3
M63B	AB2
M64B	AB1a
M65B	AB3
M66B	AB4
M67B	AB8
M68B	AB9
M69B	AB6
M70B	AB7
L7	L1
L8	L2
L9	L3

Source:
Sanitation Districts of Los Angeles County, 1995. Remedial Investigation Report Palos Verdes Landfill Volume I. Prepared by Sanitation Districts of Los Angeles County. June 1995.

LEGEND

- SECTION LINES OF INTEREST
- PROPERTY LINE
- GROUNDWATER MONITORING WELL LOCATION
- LYSIMETER LOCATION
- BORING LOCATION
- SPECIATED BOUNDARY PROBES
- SPECIATED SURFACE GAS ROUTES
- SURFACE SOIL COVER SAMPLE
- SURFACE FLUX CHAMBER SAMPLE
- AMBIENT AIR MONITORING LOCATION

GRAPHIC SCALE 0 200 400 800

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Index Map to Geologic Cross Sections

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August 2018
Figure 12A

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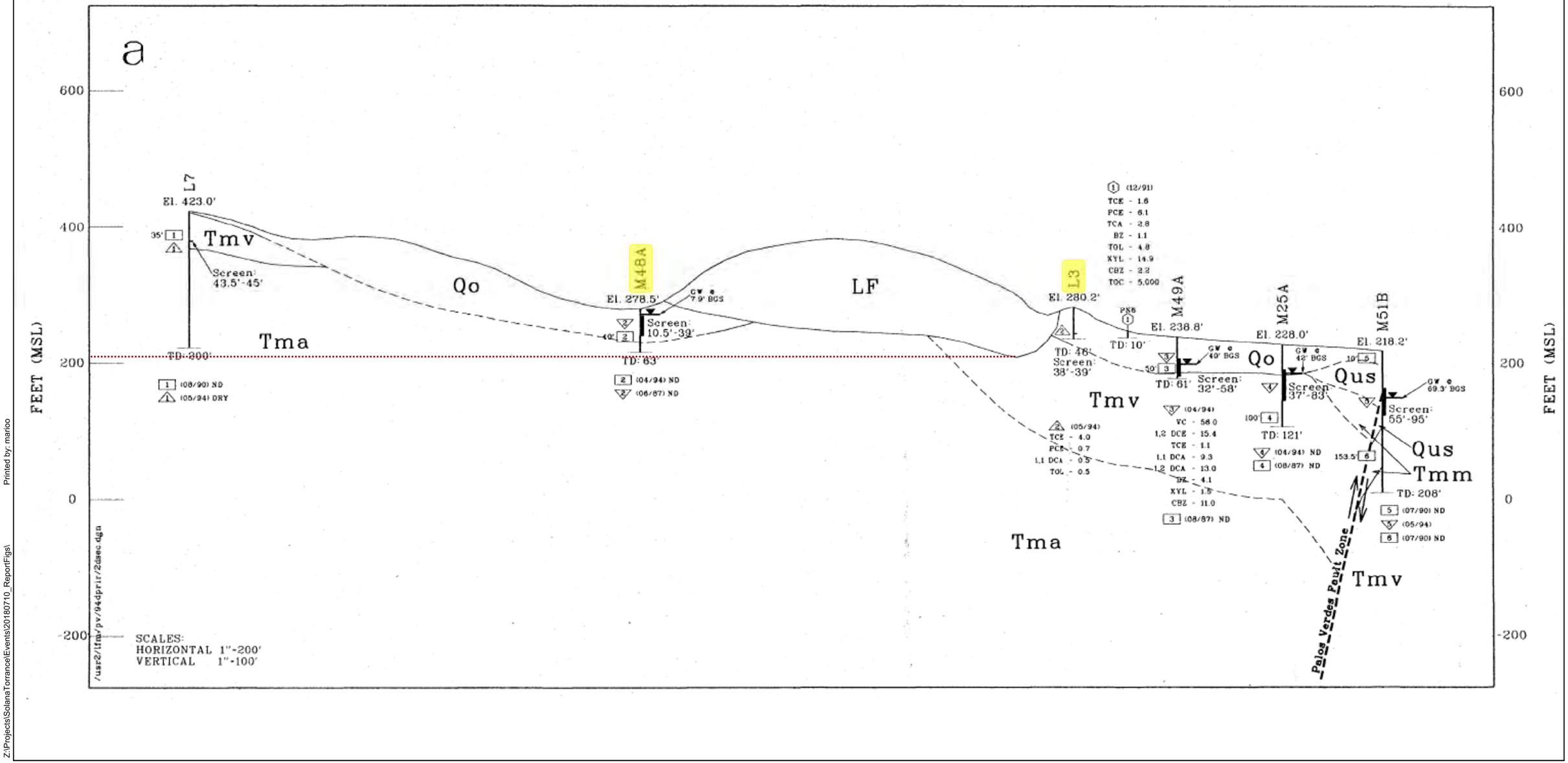

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Source:
Sanitation Districts of Los Angeles County, 1995. Remedial Investigation Report Palos Verdes Landfill Volume I. Prepared by Sanitation Districts of Los Angeles County. June 1995.

BORINGS PROXIMAL TO THE PROJECT SITE

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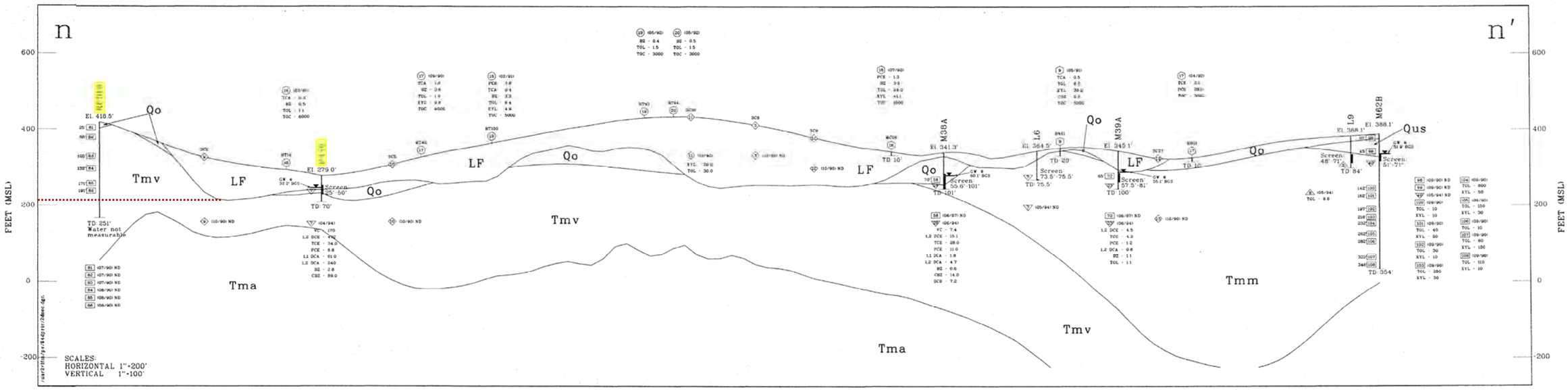
Former Palos Verdes Landfill
Geologic Cross Section A-A'

1583018*01
August 2018
Figure 12B



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Source:
Sanitation Districts of Los Angeles County, 1995. Remedial Investigation Report Palos Verdes Landfill Volume I. Prepared by Sanitation Districts of Los Angeles County. June 1995.

BORINGS PROXIMAL TO THE PROJECT SITE

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Torrance, California

Former Palos Verdes Landfill
Geologic Cross Section N-N'

1583018*01
August 2018
Figure 12C

Source:
Geocon West, Inc., 2017. Preliminary Geotechnical Investigation, Proposed Multi-family Residential Development Hawthorne Boulevard And Via Valmonte, Torrance, California. Prepared by Geocon West, Inc. 30 June 2017.

LEGEND

- Property Line
- Proposed Retaining Wall
- H — H' Location of Geologic Section

SCALE (H&V): 1" = 50'

0 50' 100'

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Torrance, California

Project Site Geologic Cross Section Map

1583018*01
August 2018
Figure 13A

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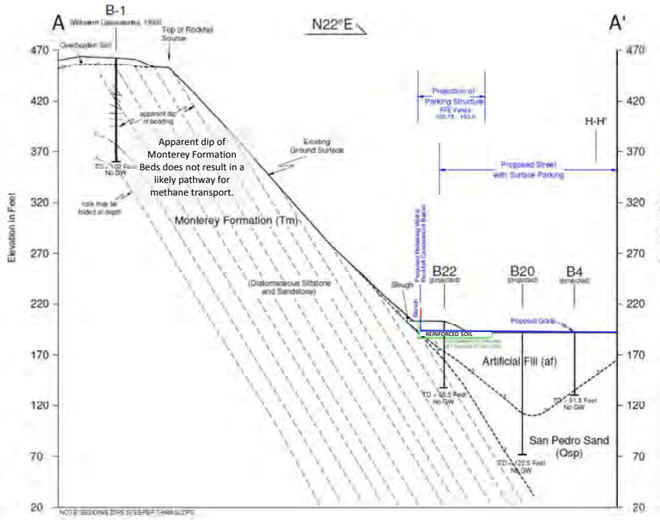
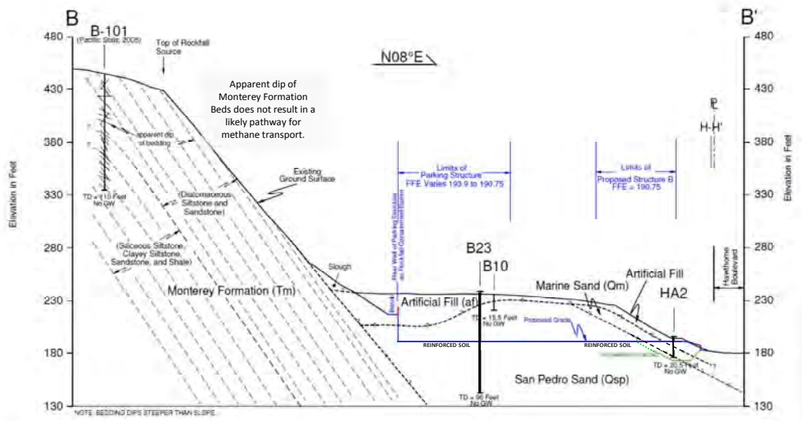


Final Floor Elevations of Proposed Development is:

- Building A = 193.5 feet amsl
- Building B = 190.75 feet amsl
- Building C = 191.67 feet amsl, and the
- Parking Structure = 193.9 feet amsl.
- Base of Landfill Deposit at Ernie Howlett is >200 feet amsl.



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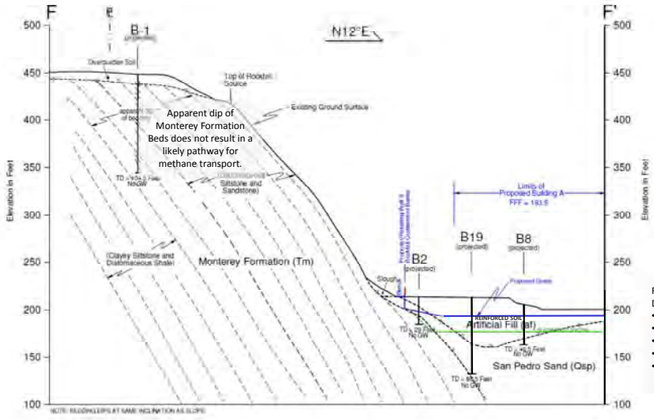

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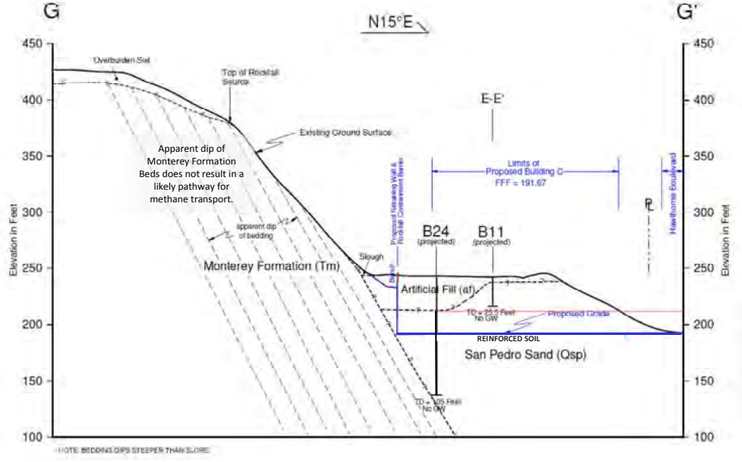

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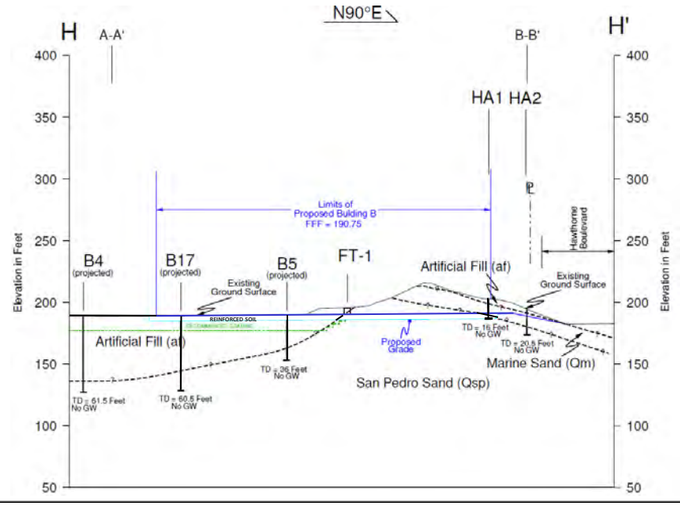

Source:
Geocon West, Inc., 2017. Preliminary Geotechnical Investigation, Proposed Multi-family Residential Development Hawthorne Boulevard And Via Valmonte, Torrance, California. Prepared by Geocon West, Inc. 30 June 2017.

NOTES:

1. THE SECTIONS ARE BASED ON GEOLOGIC CONDITIONS AT BORING LOCATIONS AND AT SURFACE EXPOSURES MAPPED DURING THE INVESTIGATION. THE GEOLOGIC CONDITIONS BETWEEN SUCH LOCATIONS HAVE BEEN INTERPOLATED. LOCALIZED VARIATIONS COULD OCCUR. THE SECTIONS ARE INTENDED FOR DESCRIPTIVE PURPOSES ONLY.
2. SEE FIGURE 2A FOR LOCATION OF SECTIONS.

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Torrance, California

Project Site Geologic Cross Sections A-A', B-B', F-F', G-G', and H-H'

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August 2018
Figure 13B

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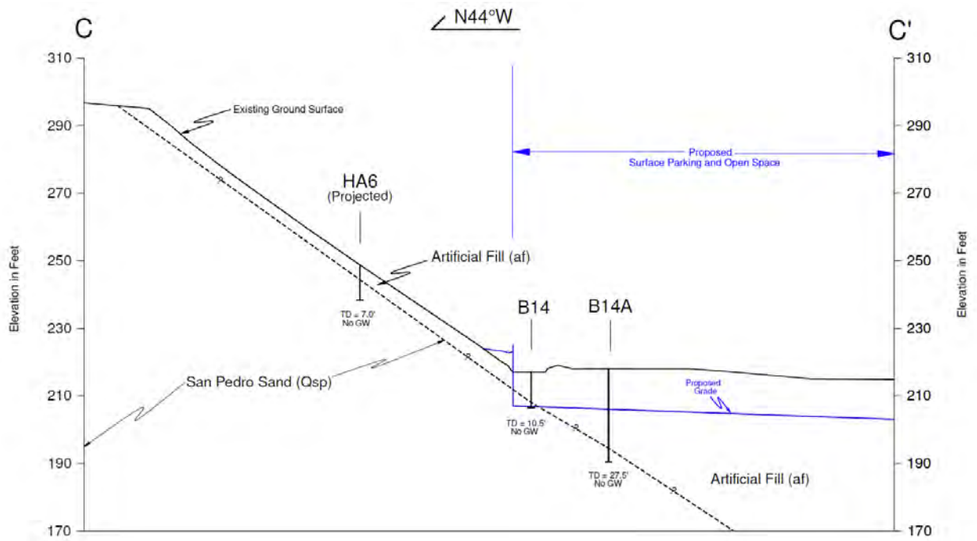

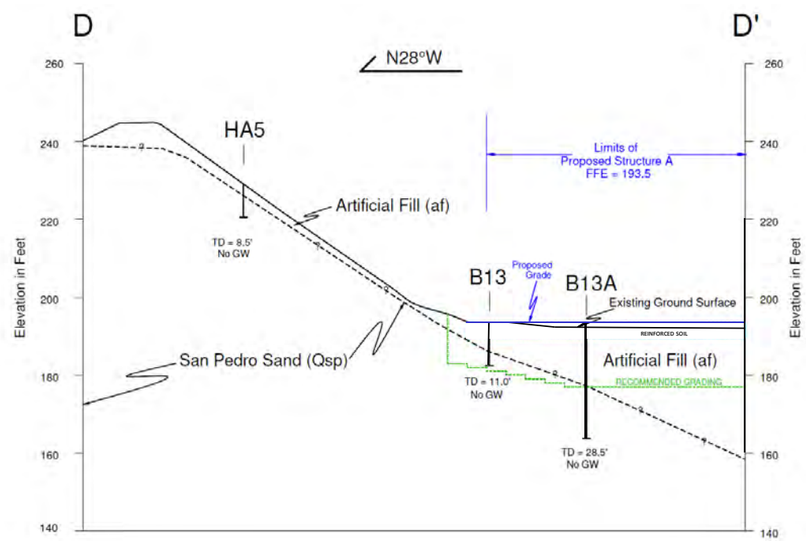

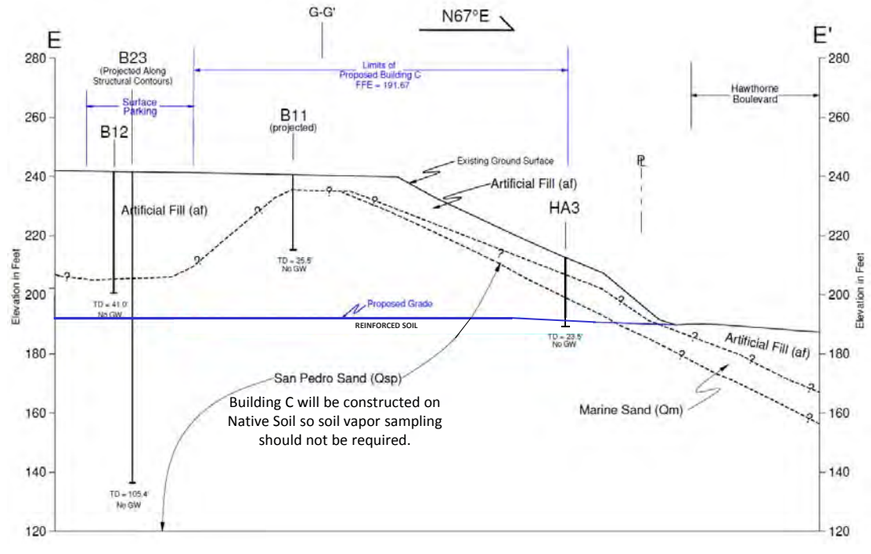

Final Floor Elevations of
Proposed Development is:

- Building A = 193.5 feet amsl,
- Building B = 190.75 feet amsl,
- Building C = 191.67 feet amsl, and the
- Parking Structure = 193.9 feet amsl.
- Base of Landfill Deposit at Ernie Howlett is >200 feet amsl.

NOTES:

1. THE SECTIONS ARE BASED ON GEOLOGIC CONDITIONS AT BORING LOCATIONS AND AT SURFACE EXPOSURES MAPPED DURING THE INVESTIGATION. THE GEOLOGIC CONDITIONS BETWEEN SUCH LOCATIONS HAVE BEEN INTERPOLATED. LOCALIZED VARIATIONS COULD OCCUR. THE SECTIONS ARE INTENDED FOR DESCRIPTIVE PURPOSES ONLY.
2. SEE FIGURE 2A FOR LOCATION OF SECTIONS.

Source:
Geocon West, Inc., 2017. Preliminary Geotechnical Investigation, Proposed Multi-family Residential Development Hawthorne Boulevard And Via Valmonte, Torrance, California. Prepared by Geocon West, Inc. 30 June 2017.

SCALE (H&V): 1" = 20'
0 20' 40'

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Torrance, California

Project Site Geologic Cross Sections C-C', D-D', and E-E'

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Figure 13C

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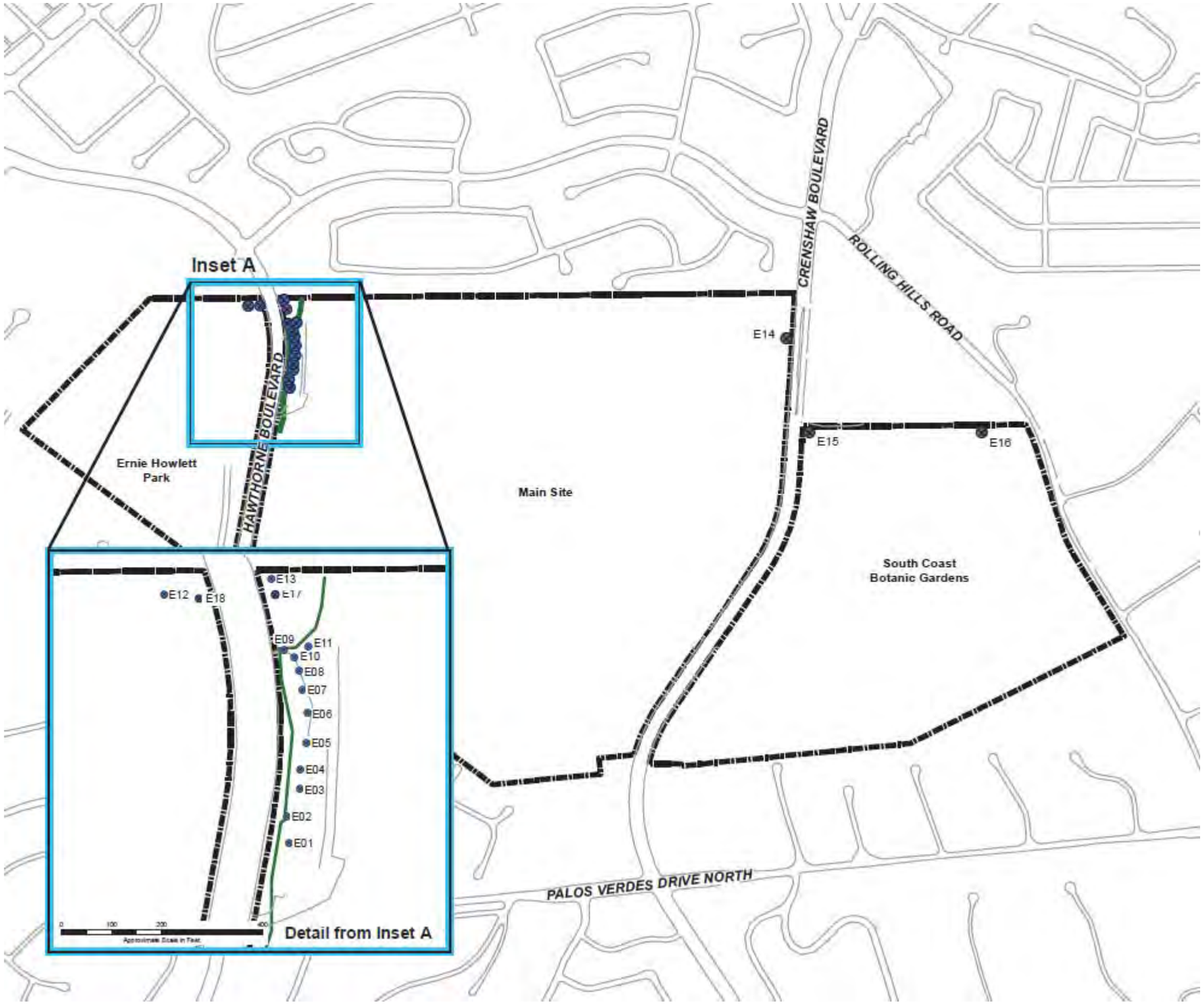

Source:
Sanitation Districts of Los Angeles County, 2018. First Quarter 2018 Operation and Maintenance Summary Report. Prepared by Sanitation Districts of Los Angeles County. April 2018.

Explanation

- Extraction well
- Subsurface barrier
- Property boundary

600 300 0 600
Approximate Scale in Feet

Base map provided by County Sanitation Districts of Los Angeles County (2pv100802.dgn).

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Torrance, California

Location of Groundwater Extraction Wells and Subsurface Cement Barrier System

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Figure 14

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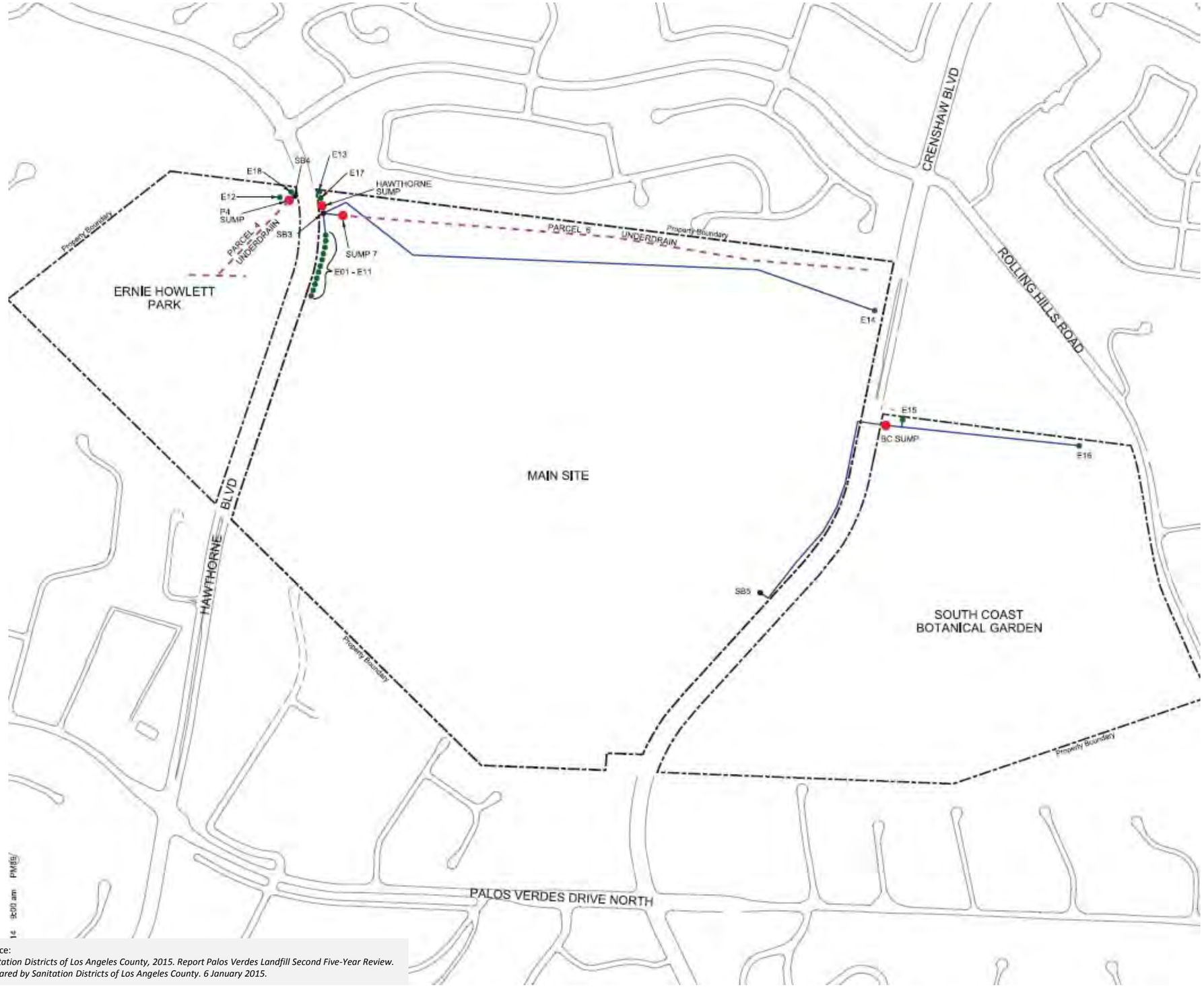

Source:
Sanitation Districts of Los Angeles County, 2015. Report Palos Verdes Landfill Second Five-Year Review. Prepared by Sanitation Districts of Los Angeles County. 6 January 2015.

Explanation

- Sump
- Extraction Well
- Discharge Piping
- Underdrain
- Property Boundary

N

0' 200' 400' 800'
GRAPHIC SCALE

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Torrance, California

Former Palos Verdes Landfill
Underdrain Collection Systems

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Figure 15

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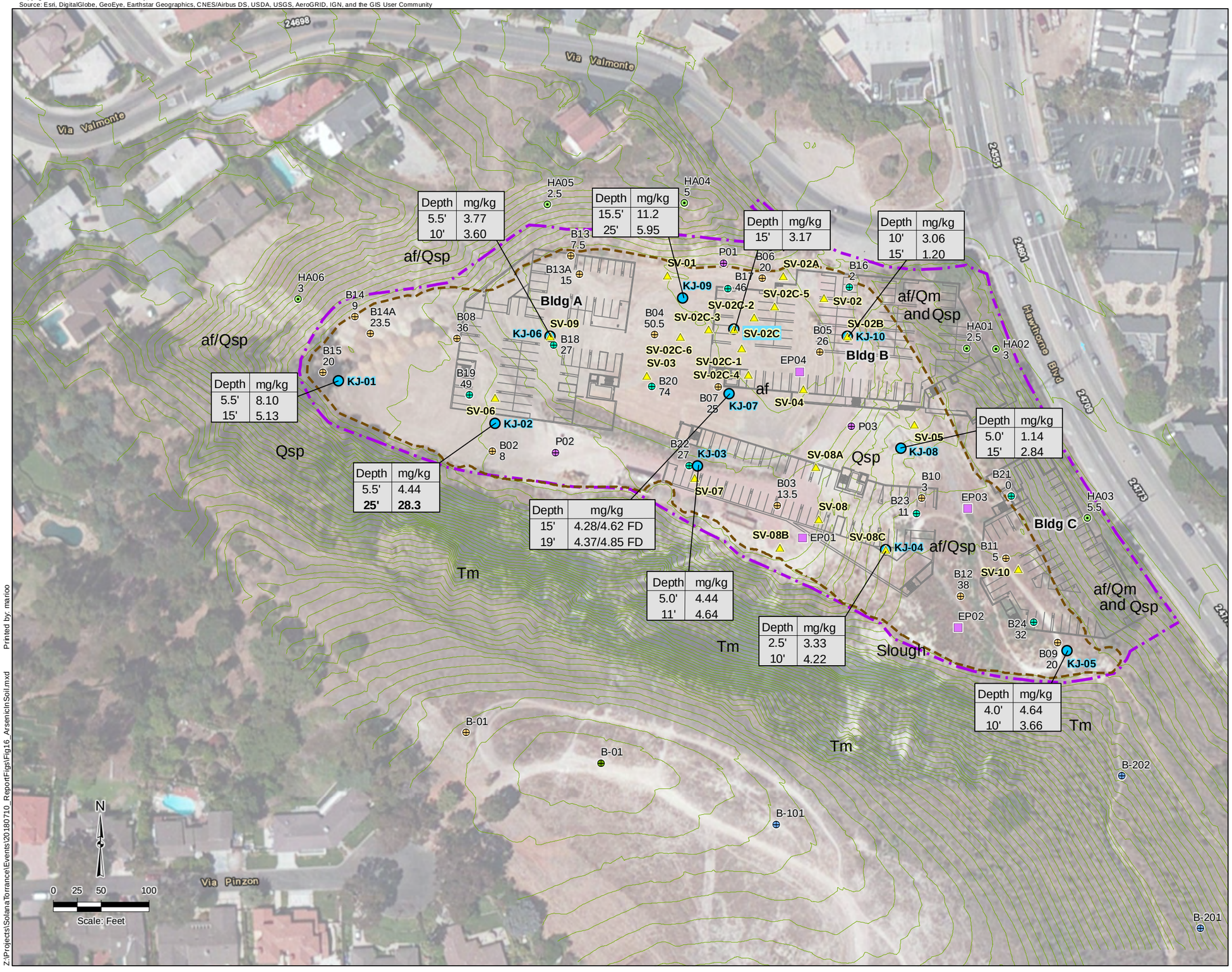

Depth	mg/kg
5.5'	3.77
10'	3.60

Depth	mg/kg
15.5'	11.2
25'	5.95

Depth	mg/kg
15'	3.17

Depth	mg/kg
10'	3.06
15'	1.20

Depth	mg/kg
5.5'	8.10
15'	5.13

Depth	mg/kg
5.5'	4.44
25'	**28.3**

Depth	mg/kg
15'	4.28/4.62 FD
19'	4.37/4.85 FD

Depth	mg/kg
5.0'	4.44
11'	4.64

Depth	mg/kg
2.5'	3.33
10'	4.22

Depth	mg/kg
5.0'	1.14
15'	2.84

Depth	mg/kg
4.0'	4.64
10'	3.66

Legend

- Kennedy/Jenks Soil Vapor Samples Locations
- Kennedy/Jenks Soil Boring Location
- B07 25 — Approximate Location of Large-Diameter Boring and Depth of Fill Material (GEOCON, 2015)
- HA04 5 — Approximate Location of Exploratory Trench and Depth of Fill Material (GEOCON, 2015)
- B20 74 — Approximate Location of Hollow Stem Auger Boring and Depth of Fill Material (GEOCON, 2017)
- Approximate Location of Percolation Test Boring (GEOCON, 2017)
- Approximate Location of Boring (Pacific Soils, 2005)
- Approximate Location of Boring (Western Laboratories, 1993)
- Approximate Location of Trench (Pacific Soils, 2004)
- Approximate Edge of Fill Material
- Proposed Development Area

af	Artificial Fill
af/Qsp	Artificial Fill over Qsp
af/Qm and Qsp	Artificial Fill over Qm and Qsp
Qm	Marine Sand
Qsp	San Pedro Sand
Tm	Monterey Formation

Depth	mg/kg
4.0'	3.77
10'	3.60

Screening Level: 12 mg/kg
Arsenic in Soil (mg/kg)
Depth in Feet

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Solana Torrance Fill Investigation
Torrance, California

Arsenic in Soil (mg/kg)

1583018*01
August 2018

Figure 16

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Legend

- Kennedy/Jenks Soil Vapor Samples Locations
- Kennedy/Jenks Soil Boring Location
- Approximate Location of Large-Diameter Boring and Depth of Fill Material (GEOCON, 2015)
- B07 25 — Approximate Location of Exploratory Trench and Depth of Fill Material (GEOCON, 2015)
- HA04 5 — Approximate Location of Hollow Stem Auger Boring and Depth of Fill Material (GEOCON, 2017)
- B20 74 — Approximate Location of Percolation Test Boring (GEOCON, 2017)
- Approximate Location of Boring (Pacific Soils, 2005)
- Approximate Location of Boring (Western Laboratories, 1993)
- Approximate Location of Trench (Pacific Soils, 2004)
- Approximate Edge of Fill Material
- Proposed Development Area

af	Artificial Fill
af/Qsp	Artificial Fill over Qsp
af/Qm and Qsp	Artificial Fill over Qm and Qsp
Qm	Marine Sand
Qsp	San Pedro Sand
Tm	Monterey Formation

Depth	mg/kg
4.0'	<0.2

Screening Level: 0.3 mg/kg
CR6+ in Soil (mg/kg)
Depth in Feet

Kennedy/Jenks Consultants

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Torrance, California

Hexavalent Chromium in Soil (mg/kg)

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August 2018

Figure 17

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Legend

- Kennedy/Jenks Soil Vapor Samples Locations
- Kennedy/Jenks Soil Boring Location
- B07 25 — Approximate Location of Large-Diameter Boring and Depth of Fill Material (GEOCON, 2015)
- HA04 5 — Approximate Location of Exploratory Trench and Depth of Fill Material (GEOCON, 2015)
- B20 74 — Approximate Location of Hollow Stem Auger Boring and Depth of Fill Material (GEOCON, 2017)
- Approximate Location of Percolation Test Boring (GEOCON, 2017)
- Approximate Location of Boring (Pacific Soils, 2005)
- Approximate Location of Boring (Western Laboratories, 1993)
- Approximate Location of Trench (Pacific Soils, 2004)
- Approximate Edge of Fill Material
- Proposed Development Area

af	Artificial Fill
af/Qsp	Artificial Fill over Qsp
af/Qm and Qsp	Artificial Fill over Qm and Qsp
Qm	Marine Sand
Qsp	San Pedro Sand
Tm	Monterey Formation

Depth	ug/kg
4.0'	<50

Screening Level: 240 ug/kg
PCB-1260 (Aroclor) in Soil (ug/kg)
Depth in Feet

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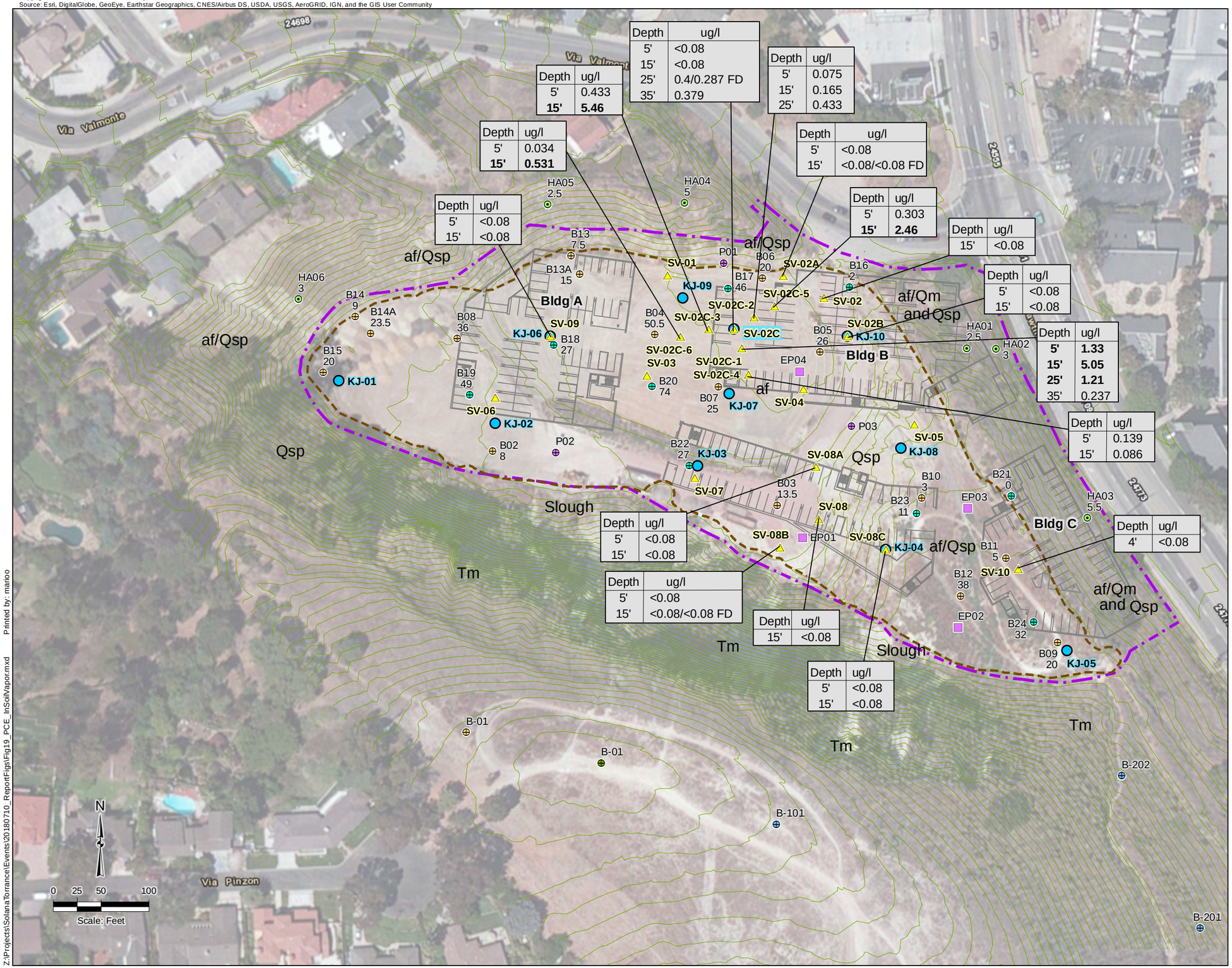
Solana Torrance Fill Investigation
Torrance, California

PCB-1260 (Aroclor) in Soil (ug/kg)

1583018*01
August 2018

Figure 18



Legend

- Kennedy/Jenks Soil Vapor Samples Locations
- Kennedy/Jenks Soil Boring Location
- Approximate Location of Large-Diameter Boring and Depth of Fill Material (GEOCON, 2015)
- B07 25 — Approximate Location of Exploratory Trench and Depth of Fill Material (GEOCON, 2015)
- HA04 5 — Approximate Location of Hollow Stem Auger Boring and Depth of Fill Material (GEOCON, 2017)
- B20 74 — Approximate Location of Percolation Test Boring (GEOCON, 2017)
- Approximate Location of Boring (Pacific Soils, 2005)
- Approximate Location of Boring (Western Laboratories, 1993)
- Approximate Location of Trench (Pacific Soils, 2004)
- Approximate Edge of Fill Material
- Proposed Development Area

af	Artificial Fill
af/Qsp	Artificial Fill over Qsp
af/Qm and Qsp	Artificial Fill over Qm and Qsp
Qm	Marine Sand
Qsp	San Pedro Sand
Tm	Monterey Formation

Depth	ug/l
5'	<0.08
15'	<0.08

Screening Level: 0.46 ug/l
PCE in Soil Vapor (ug/l)
Depth in Feet

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Torrance, California

PCE in Soil Vapor (ug/l)

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Figure 19

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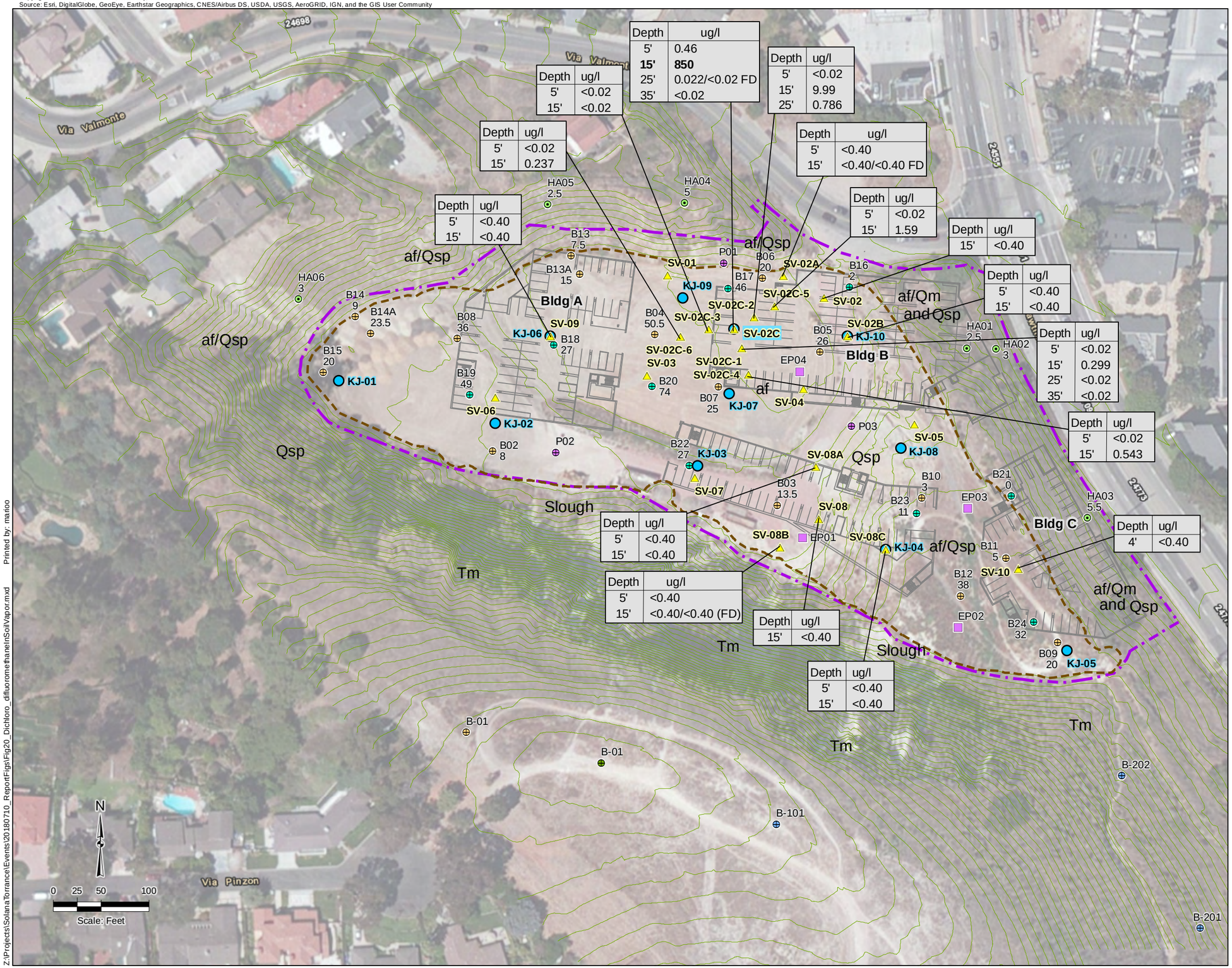

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Legend

- Kennedy/Jenks Soil Vapor Samples Locations
- Kennedy/Jenks Soil Boring Location
- Approximate Location of Large-Diameter Boring and Depth of Fill Material (GEOCON, 2015)
- B07 25 — Approximate Location of Exploratory Trench and Depth of Fill Material (GEOCON, 2015)
- HA04 5 — Approximate Location of Hollow Stem Auger Boring and Depth of Fill Material (GEOCON, 2017)
- B20 74 — Approximate Location of Percolation Test Boring (GEOCON, 2017)
- Approximate Location of Boring (Pacific Soils, 2005)
- Approximate Location of Boring (Western Laboratories, 1993)
- Approximate Location of Trench (Pacific Soils, 2004)
- Approximate Edge of Fill Material
- Proposed Development Area

af	Artificial Fill
af/Qsp	Artificial Fill over Qsp
af/Qm and Qsp	Artificial Fill over Qm and Qsp
Qm	Marine Sand
Qsp	San Pedro Sand
Tm	Monterey Formation

Depth	ug/l
5'	<0.40
15'	<0.40

Screening Level: 100 ug/l

Dichloro-difluoromethane in Soil Vapor (ug/l)

Depth in Feet

Kennedy/Jenks Consultants

Solana Torrance Fill Investigation
Torrance, California

Dichloro-difluoromethane in Soil Vapor (ug/l)

1583018*01
August 2018

Figure 20

Appendix A: Geocon Boring Logs

PROJECT NO. A9201-06-01E

BORING 2

ELEV. (MSL.) **210'** DATE COMPLETED **7/16/15**

EQUIPMENT **BUCKET AUGER** BY: **RA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0	BULK 0-2.5'				**ARTIFICIAL FILL (af)** Sandy Silt, soft, dry, gray, some diatomaceous siltstone fragments.			
2					Silty Sand, well-graded, medium dense, slightly moist, brown, some brick and concrete fragments.			
4	B2@3.5'				- 3.5' poorly graded, yellowish brown, fine- to medium-grained, some coarse-grained, some brick fragments (to 3"), rock fragments (to 6")	5		
6	BULK 5-7.5 B2@6'				- 6.0' some slate fragments (to 1"), some cobbles (to 4")	4	103.8	13.1
8	B2@8.5'				**SAN PEDRO SAND (Qsp)** Sand, poorly graded, medium dense, slightly moist, pale light brown, fine- to medium-grained, some silt, friable, massive, trace rounded cobbles, subrounded (to 3"), contract with fill flat.	P	96.3	8.0
10	B2@11'				- 10.0' caving - 11.0' light brown, trace coarse-grained sand	P	105.1	3.2
12								
14	B2@13.5'			SP	- 14.0' yellowish brown - 14.5' caving (approximately 8" into sidewall)	2	106.4	2.8
16	B2@16'				- 15.0' increase in coarse-grained sand, some rounded gravel (to 2")	4	104.0	4.5
18	B2@18.5'					2	--	--
20	B2@21'				**MONTEREY FORMATION (Tm)** Interbedded Clayey Siltstone and diatomaceous Siltstone, very soft (H1), brown, thinly bedded, intensely fractured. - 20.0' Bedding: N81W, 17NE	2		
22								
24	B2@23.5'				Claystone, very soft (H1), brown, thinly bedded to laminated, slightly weathered, intensely fractured.	3	108.2	5.4
26	B2@26'				- 26.0' some polished surfaces randomly oriented, no striations, laminated	5		
28								

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A2,
Log of Boring 2, Page 1 of 2

SAMPLE SYMBOLS

- ... SAMPLING UNSUCCESSFUL
- ... STANDARD PENETRATION TEST
- ... DRIVE SAMPLE (UNDISTURBED)
- ... DISTURBED OR BAG SAMPLE
- ... CHUNK SAMPLE
- ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. A9201-06-01E

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	**BORING 2** ELEV. (MSL.) **210'** DATE COMPLETED **7/16/15** EQUIPMENT **BUCKET AUGER** BY: **RA**	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
					MATERIAL DESCRIPTION			
30								
	B2@31'				- 31.0' some diatomaceous siltstone interbeds	4		
					Total depth of boring: 31.5 feet Fill to 8 feet. No groundwater encountered. Backfilled with soil cuttings and tamped. *Penetration resistance for Kelly Bar falling 12 inches. Kelly Bar weights: 0-25 feet, 4,900 lbs, 25-50 feet, 3,400 lbs, 50-75 feet, 2,200 lbs, 70-100 feet, 1,200 lbs			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A2,
Log of Boring 2, Page 2 of 2

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◥ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. A9201-06-01E

BORING 3

ELEV. (MSL.) **201'** DATE COMPLETED **7/16/15**

EQUIPMENT **BUCKET AUGER** BY: **RA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)**			
2					Silty Sand, well-graded, medium dense, slightly moist, brown, fine- to medium-grained, some subangular cobbles (to 6"), some brick debris.			
					- 2.5' some clay, some concrete fragments (to 8")			
4	B3@3.5'					4		
6	B3@6'				- 6.0' poorly graded, rock fragments (to over 12"), fine- to medium-grained, some coarse-grained	7	125.1	6.0
8					- 7.0' no rock fragments			
	B3@8.5'					4	117.0	9.5
10					- 9.0' trace coarse-grained sand			
					- 10.0' some cobbles (to 4")			
12	B3@11'					3	111.8	6.2
14	B3@13.5'				**SAN PEDRO SAND (Qsp)**	3		
					Sand, poorly graded, medium dense, slightly moist, fine- to medium-grained, trace coarse-grained, friable.			
16	B3@16'				- 16.0' increase in coarse-grained sand	3	108.6	7.5
18								
	B3@18.5'					3	114.7	5.9
20				SP				
	B3@21'				- 21.0' yellowish brown, fine- to medium-grained, some coarse-grained	2	101.3	4.5
22					- 22.0' some subrounded gravel (to 1.5")			
24	B3@23.5'					1		
26	B3@26'					7		
28					- 28.0' weakly bedded, some oxidation staining along bedding			
					Total depth of boring: 28 feet Fill to 13.5 feet.			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A3,
Log of Boring 3, Page 1 of 2

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◥ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. A9201-06-01E

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	**BORING 3** ELEV. (MSL.) **201'** DATE COMPLETED **7/16/15** EQUIPMENT **BUCKET AUGER** BY: **RA**	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
					MATERIAL DESCRIPTION			
					No groundwater encountered. Backfilled with soil cuttings and tamped. *Penetration resistance for Kelly Bar falling 12 inches. Kelly Bar weights: 0-25 feet, 4,900 lbs, 25-50 feet, 3,400 lbs, 50-75 feet, 2,200 lbs, 70-100 feet, 1,200 lbs			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A3,
Log of Boring 3, Page 2 of 2

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. A9201-06-01E

BORING 4

ELEV. (MSL.) **192'** DATE COMPLETED **7/16/15**

EQUIPMENT **BUCKET AUGER** BY: **RA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0	BULK 0-5'				**ARTIFICIAL FILL (af)** Gravelly Sand, well-graded, medium dense, slightly moist, light brown, rock debris (to 8.5"), asphalt debris, some claystone fragments, friable.			
2								
4								
6	B4@6'					6	--	--
8								
10	BULK 10-15							
	B4@11'					4	88.0	20.4
12					Silty Sand, poorly graded, medium dense, slightly moist, very fine- to fine-grained. - 13.0' some rock fragments (to 7") - 14.0' some claystone fragments (to 9")			
14								
16	B4@16'				Sand with Silt, poorly graded, medium dense, slightly moist, dark brown, fine- to medium-grained, some coarse-grained, some clay, rock fragments (to 6"). - 17.5' wood fragments (to 4") - 19.0' rock fragments (to 3")	6	84.6	16.0
18								
20					Clayey Sand, poorly graded, medium dense, slightly moist, fine- to medium-grained, some coarse-grained, some gravel (to 4").			
	B4@21'					4	104.4	14.9
22					- 22.0' large rock fragments (to 8")			
24					- 23.5' plastic tarp debris (to 3") Silty Sand, poorly graded, medium dense, slightly moist, yellowish brown, fine- to medium-grained, some clay, some gravel (to 2"), friable.			
26	B4@26'					7	107.3	10.8
	BULK 27-30'				Sand, poorly graded, medium dense, slightly moist, light gray, very fine- to medium-grained, friable.			
28								

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A4,
Log of Boring 4, Page 1 of 3

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. A9201-06-01E

BORING 4

ELEV. (MSL.) **192'** DATE COMPLETED **7/16/15**

EQUIPMENT **BUCKET AUGER** BY: **RA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
30					- 29.5' some gravel (to 3")			
32	B4@31'				- 31.5' some subrounded coarse-grained sand	3	114.1	3.7
34					- 33.0' some angular rock fragments (to 4")			
36	B4@36'					6	111.6	3.5
38					- 37.0' some cobbles (to 4")			
40	BULK 40-45'							
42	B4@41'				- 41.5' rounded gravel (to 1"), increase in coarse-grained sand, decrease in gravel content	7	99.6	4.2
44					- 44.0' trace subrounded cobbles (to 4")			
46					- 45.0' some subrounded gravel (to 2") - 46.0' no recovery			
48								
50								
52	B4@51'				**SAN PEDRO SAND (Qsp)** Sand, poorly graded, dense, slightly moist, pale brown, fine- to medium-grained, trace coarse-grained, weakly developed bedding, friable. - 52.5' subrounded cobbles (to 3.5"), increase in coarse-grained sand	8	91.4	5.4
54				SP				
56	B4@56'				- 56.0' medium-grained - 56.5' light gray, some coarse-grained sand, trace subangular cobbles, friable	7	96.1	3.8
58					- 57.5' some coarse-grained sand			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A4,
Log of Boring 4, Page 2 of 3

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◹ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. A9201-06-01E

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	**BORING 4** ELEV. (MSL.) **192'** DATE COMPLETED **7/16/15** EQUIPMENT **BUCKET AUGER** BY: **RA**	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
					MATERIAL DESCRIPTION			
60				SP				
	B4@61'			SW	Sand, well-graded, dense, slightly moist, light gray, subrounded to rounded coarse gravel, massive, friable.	11	101.3	1.4

Total depth of boring: 61.5 feet
Fill to 50.5 feet.
No groundwater encountered.
Backfilled with soil cuttings and tamped.

*Penetration resistance for Kelly Bar falling 12 inches.
Kelly Bar weights: 0-25 feet, 4,900 lbs, 25-50 feet, 3,400 lbs, 50-75 feet, 2,200 lbs, 70-100 feet, 1,200 lbs

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A4,
Log of Boring 4, Page 3 of 3

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING 5

ELEV. (MSL.) **190'** DATE COMPLETED **7/17/15**

EQUIPMENT **BUCKET AUGER** BY: **RA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)**			
2					Silty Sand, well-graded, medium dense, dry, light brown, large rock fragments (to 6"), some claystone and siltstone fragments (to 12").			
4	B5@3'				- 3.5' sand with silt lens, well-graded, dry, yellowish brown, medium-grained, some coarse-grained, some gravel (to 2")	5	102.0	18.6
					- 4.5' large rock fragments (to 18"), some clay fragments mixed with sand			
6	B5@6'				Clayey Sand, well-graded, medium dense, dark gray, some rock fragments (to 2"), organic odor.	3	93.7	28.9
					- 7.0' rock fragments (to 9")			
8	B5@8'					3		
10								
	B5@11'				- 10.5' increase in gravel content, large rock fragments (to 6")	3	93.4	23.3
12					- 12.0' rock fragments (to 12")			
14					- 13.5' plastic PVC pipe			
					- 14.5' large rock fragments (to 15")			
16	B5@16'				Silty Sand, well-graded, loose to medium dense, dark yellowish brown, some clay.	2	107.7	18.6
18					Sand, poorly graded, slightly moist, yellowish brown, fine- to medium-grained, some gravel (to 3"), friable.			
20								
	B5@21'				- 21.0' some subrounded gravel (to 3/4")	2	97.0	5.2
22					- 22.5' some subrounded cobbles (to 7")			
24								
26	B5@26'				**SAN PEDRO SAND (Qsp)**	4		
28				SP	Sand, poorly graded, medium dense, slightly moist, yellowish brown, fine- to medium-grained, trace coarse-grained, massive, rounded gravel (to 2"), friable.			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A5,
Log of Boring 5, Page 1 of 2

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	**BORING 5** ELEV. (MSL.) **190'** DATE COMPLETED **7/17/15** EQUIPMENT **BUCKET AUGER** BY: **RA** MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
30								
	B5@31'			SP	- 31.0' some rounded coarse gravel	4	111.3	9.9
32								
34								
36	B5@36'					7		
					Total depth of boring: 36.5 feet Fill to 26 feet. No groundwater encountered. Backfilled with soil cuttings and tamped. *Penetration resistance for Kelly Bar falling 12 inches. Kelly Bar weights: 0-25 feet, 4,900 lbs, 25-50 feet, 3,400 lbs, 50-75 feet, 2,200 lbs, 70-100 feet, 1,200 lbs			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A5,
Log of Boring 5, Page 2 of 2

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING 6

ELEV. (MSL.) **189'** DATE COMPLETED **7/16/15**

EQUIPMENT **BUCKET AUGER** BY: **RA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)** Silty Sand, well-graded, medium dense, dry, light yellowish brown, large rock fragments (to 8").			
2								
4					Clayey Sand, well-graded, loose to medium dense, slightly moist, dark brown, fine- to medium-grained, some coarse-grained, large rock fragments (to 5"), some brick fragments.			
6	B6@6'					2	111.3	9.9
8					Silty Sand, poorly graded, loose to medium dense, slightly moist, yellowish brown, very fine- to medium-grained, trace clay. - 7.5' large pockets of clay and rock debris			
10					- 9.0' some coarse-grained sand			
12	B6@11'				- 12.0' yellowish brown, very fine- to fine-grained, friable	3	--	--
14								
16	B6@16'				- 16.0' trace coarse-grained sand	3	91.6	9.4
18					- 18.0' large rounded cobbles (to 6") - 19.0' trace rounded gravel (to 1.5"), some claystone fragments			
20	BULK 20-25'				**SAN PEDRO SAND (Qsp)**			
22	B6@21'			SP	Sand, poorly graded, medium dense, slightly moist, yellowish brown, very fine- to fine-grained, trace coarse-grained, weakly bedded, friable. - 21.5' increase in coarse-grained sand content, oxidation staining in bedding plane	3	88.9	4.4
24								
26	B6@26'				- 25.0' dense, trace rounded coarse-grained sand, micaceous, friable	9		
28								

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A6,
Log of Boring 6, Page 1 of 2

SAMPLE SYMBOLS

- ... SAMPLING UNSUCCESSFUL
- ... STANDARD PENETRATION TEST
- ... DRIVE SAMPLE (UNDISTURBED)
- ... DISTURBED OR BAG SAMPLE
- ... CHUNK SAMPLE
- ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	**BORING 6** ELEV. (MSL.) **189'** DATE COMPLETED **7/16/15** EQUIPMENT **BUCKET AUGER** BY: **RA** MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
30								
	B6@31'			SP	- 31.5' some cobbles (to 2"), large chunk of claystone (1"), thinly bedded, slightly to moderately weathered, moderately fractured	7	98.8	5.0
32								
34								
36	B6@36'				- 35.5' trace medium-grained sand, slightly oxidized	10	93.8	3.5
					Total depth of boring: 36.5 feet Fill to 20 feet. No groundwater encountered. Backfilled with soil cuttings and tamped. *Penetration resistance for Kelly Bar falling 12 inches. Kelly Bar weights: 0-25 feet, 4,900 lbs, 25-50 feet, 3,400 lbs, 50-75 feet, 2,200 lbs, 70-100 feet, 1,200 lbs			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A6,
Log of Boring 6, Page 2 of 2

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING 7

ELEV. (MSL.) **191'** DATE COMPLETED **7/20/15**

EQUIPMENT **BUCKET AUGER** BY: **RA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)**			
2					Sandy Silt, very soft, slightly moist, light brown, fine- to medium-grained, some coarse-grained, some fine gravel and rock debris (to 5"), some diatomaceous silstone fragments (to 7").			
4	B7@3'				Silty Sand, well-graded, medium dense, slightly moist, some fine gravel and rock fragments (to 3"). - 4.0' some claystone and siltstone fragments (to 12")	4	108.6	19.0
6	B7@6'				Sand, well-graded, medium dense, slightly moist, some silt, highly oxidized, yellowish brown, friable.	4	103.4	11.6
8	B7@8'				Clay, firm, slightly moist, rock fragments (to 6"), organic odor.	3	120.8	8.8
10								
12	B7@11'				Clayey Sand with Silt, medium dense, slightly moist, grayish brown, medium-grained, some coarse-grained. - 13.0' some metal wire debris	4	97.1	22.9
14					Clay, firm, slightly moist, some silt, rock fragments (to 3.5"), organic odor. - 14.0' some slate fragments (to 8"), wood debris (to 10"), metal scrap (to 5"), paper			
16	B7@16'					4	112.6	12.2
18					Clayey Sand with Silt, medium dense, slightly moist, medium-grained, some coarse-grained, grayish brown, metal debris (to 9"). - 18.0' rock fragments (to 11")			
20								
22	B7@21'				Sand, poorly graded, medium dense, slightly moist, grayish brown, medium-grained, some coarse-grained, some fine gravel and rock debris (to 5"), friable. - 21.5' some gravel (to 3"), rounded to subrounded, some claystone fragments (to 6")	3	122.0	12.9
24								
26	B7@26'			SP	**SAN PEDRO SAND (Qsp)** Sand, poorly graded, medium dense to dense, slightly moist, yellowish brown, fine- to medium-grained, some coarse-grained, massive, friable.	6		
28								

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A7,
Log of Boring 7, Page 1 of 2

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	**BORING 7** ELEV. (MSL.) **191'** DATE COMPLETED **7/20/15** EQUIPMENT **BUCKET AUGER** BY: **RA** MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
30								
	B7@31'				- 31.0' increase in coarse-grained sand	5		
32					- 32.5' subrounded cobble (to 5")			
34				SP				
36	B7@36'					4		
38					- 38.0' trace subrounded cobbles (to 4")			
40					Sand, well-graded, medium dense, slightly moist, yellowish brown, some silt, friable, rounded to subrounded coarse-grained, friable.			
	B7@41'					4		
42				SW				
44								
46	B7@46'			SP	Sand, poorly graded, slightly moist, yellowish brown, coarse-grained, some medium-grained, massive, friable.	4		
					Total depth of boring: 46.5 feet Fill to 25 feet. No groundwater encountered. Backfilled with soil cuttings and tamped. *Penetration resistance for Kelly Bar falling 12 inches. Kelly Bar weights: 0-25 feet, 4,900 lbs, 25-50 feet, 3,400 lbs, 50-75 feet, 2,200 lbs, 70-100 feet, 1,200 lbs			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A7,
Log of Boring 7, Page 2 of 2

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◹ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

BORING 8

ELEV. (MSL.) **213'** DATE COMPLETED **7/20/15**

EQUIPMENT **BUCKET AUGER** BY: **RA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0	BULK 0-5'				**ARTIFICIAL FILL (af)** Sandy Silt, soft, dry, light grayish brown, some diatomaceous siltstone fragments, brick fragments (to 3").			
2								
4	B8@3'					2	110.5	4.3
6	B8@6'				- 5.0' some gravel (to 3")	3	87.3	23.0
8	B8@8'				Silty Sand, poorly graded, medium dense, slightly moist, yellowish brown, fine- to medium-grained, trace coarse-grained, friable.	3	108.1	2.9
10					- 9.5' some rock fragments (to 3")			
12	B8@11'					3	114.8	12.6
14					Clay, firm, slightly moist, dark brown, some coarse-grained sand, rock fragments (to 5"), organic odor.			
16	B8@16'				Sand with Clay, poorly graded, medium dense, grayish brown, fine- to medium-grained, some rock fragments (to 3").	4	118.5	12.1
18					- 17.5' rock fragments (to 5")			
20					- 19.0' rock fragments (to 6"), increase in clay content			
22	B8@21'				- 21.5' rock fragments (to 1.5")	3	112.6	14.0
24					- 22.5' some plastic piping - 23.5' rock fragments (to 5"), organic odor			
26	B8@26'					5	115.0	9.4
28					Silty Sand, poorly graded, slightly moist, yellowish brown, fine- to medium-grained, trace coarse-grained, friable. - 27.5' some very soft claystone fragments (to 8")			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A8,
Log of Boring 8, Page 1 of 2

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

BORING 8

ELEV. (MSL.) **213'** DATE COMPLETED **7/20/15**

EQUIPMENT **BUCKET AUGER** BY: **RA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
30								
	B8@31'					2		
32								
34					- 34.0' very soft claystone fragments (to 7")			
36	B8@36'				**SAN PEDRO SAND (Qsp)** Sand, poorly graded, medium dense, slightly moist, light yellowish brown, very fine- to fine-grained, trace silt, friable.	3		
38								
40	BULK 40-45'			SP				
	B8@41'				- 41.0' trace coarse-grained sand	5		
42								
44								
46					- 45.0' increase in coarse-grained sand content, subrounded, trace rounded gravel (to 1.5")			
	B8@46'					6		
					Total depth of boring: 46.5 feet Fill to 36 feet. No groundwater encountered. Backfilled with soil cuttings and tamped. *Penetration resistance for Kelly Bar falling 12 inches. Kelly Bar weights: 0-25 feet, 4,900 lbs, 25-50 feet, 3,400 lbs, 50-75 feet, 2,200 lbs, 70-100 feet, 1,200 lbs			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A8,
Log of Boring 8, Page 2 of 2

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

BORING 9

ELEV. (MSL.) **243'** DATE COMPLETED **7/23/15**

EQUIPMENT **BUCKET AUGER** BY: **RA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0	BULK 0-5'				**ARTIFICIAL FILL (af)** Silt with Sand, soft to stiff, slightly moist, pale grayish brown, fine- to medium-grained, friable.			
2	B9@2'					7		
4					- 4.0' some paper fragments			
	B9@5'					10		
6					Sandy Silt with Clay, firm, slightly moist, grayish brown, medium- to coarse-grained, some diatomaceous siltstone fragments (to 2").			
	B9@7'					13		
8					- 8.5' rock fragments (to 5")			
10	B9@10'					16	66.4	38.6
					- 10.5' some rock fragments (to 1")			
12					- 11.5' rock fragments (to 3")			
14								
	B9@15'					20	82.6	20.2
16					- 15.5' reworked diatomaceous siltstone, very soft (H1), laminated, intensely fractured, slightly weathered			
18								
20	B9@20'				**SAN PEDRO SAND (Qsp)**	21	128.5	2.7
	BULK 21-23'			SP	Sand, poorly graded, dense, slightly moist, light grayish brown, medium- to coarse-grained, massive, friable.			
22								
					Total depth of boring: 23 feet Fill to 20 feet. No groundwater encountered. Backfilled with soil cuttings and tamped. *Penetration resistance for Kelly Bar falling 12 inches. Kelly Bar weights: 0-15 feet, 1,770 lbs, 15-30 feet, 1,200 lbs, 30-45 feet, 760 lbs, 45-60 feet, 490 lbs			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A9,
Log of Boring 9, Page 1 of 1

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◥ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

BORING 10

ELEV. (MSL.) **236'** DATE COMPLETED **7/24/15**

EQUIPMENT **BUCKET AUGER** BY: **RA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)**			
					Sandy Silt, firm to stiff, slightly moist, light gray, fine- to medium-grained, some gravel (to 2").			
2	B10@2'					8		
					SAN PEDRO SAND (Qsps)			
4					Sand, poorly graded, dense, yellowish brown, fine- to medium-grained, some coarse-grained, friable.			
	B10@5'					10		
6					- 5.5' light gray to white			
	B10@7'					13		
8					- 7.5' increase in coarse-grained sand			
				SP				
10					- 9.0' trace rounded gravel (to 1")			
12								
14					- 14.0' medium- to coarse-grained sand			
	B10@15'					15		
					Total depth of boring: 15.5 feet Fill to 3 feet. No groundwater encountered. Backfilled with soil cuttings and tamped. *Penetration resistance for Kelly Bar falling 12 inches. Kelly Bar weights: 0-15 feet, 1,770 lbs, 15-30 feet, 1,200 lbs, 30-45 feet, 760 lbs, 45-60 feet, 490 lbs			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A10,
Log of Boring 10, Page 1 of 1

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◥ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	**BORING 11** ELEV. (MSL.) **240'** DATE COMPLETED **7/23/15** EQUIPMENT **BUCKET AUGER** BY: **RA** MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)** Silt with Sand, firm, slightly moist, pale grayish brown, fine- to medium-grained, friable.			
2	B11@2'				Sand with Silt, poorly graded, medium dense, slightly moist, dark brown, medium-grained, some coarse-grained, friable.	10		
4					- 4.0' rock fragments (to 2")			
6	B11@5'				**SAN PEDRO SAND (Qsps)** Sand, poorly graded, dense, slightly moist, light gray to white, medium- to coarse-grained, some fine-grained, friable.	12	89.1	26.7
8	B11@7'					13		
10	B11@10'				- 9.0' coarse-grained sand	16		
12								
14					- 13.5' trace fine-grained sand			
16	B11@15'			SP		20		
18								
20	B11@20'				- 20.5' coarse-grained sand, friable	18		
22								
24								
	B11@25'					20		
					Total depth of boring: 25.5 feet Fill to 5 feet. No groundwater encountered. Backfilled with soil cuttings and tamped. *Penetration resistance for Kelly Bar falling 12 inches. Kelly Bar weights: 0-15 feet, 1,770 lbs, 15-30 feet, 1,200 lbs, 30-45 feet, 760			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A11,
Log of Boring 11, Page 1 of 2

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◥ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. A9201-06-01E

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	**BORING 11** ELEV. (MSL.) **240'** DATE COMPLETED **7/23/15** EQUIPMENT **BUCKET AUGER** BY: **RA**	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
					MATERIAL DESCRIPTION			
					lbs, 45-60 feet, 490 lbs			

Figure A11,
Log of Boring 11, Page 2 of 2

A9201-06-01E BORING LOGS 1 TO 15.GPJ

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◹ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

BORING 12

ELEV. (MSL.) **242'** DATE COMPLETED **7/23/15**

EQUIPMENT **BUCKET AUGER** BY: **RA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)**			
					Silt with Sand, stiff, slightly moist, pale grayish brown, fine- to medium-grained, friable.			
2	B12@2'					10		
					- 3.0' some glass and brick fragments (to 2")			
4					Silty Clay with Sand, stiff, slightly moist, brown, medium- to coarse-grained, some rock fragments (to 1"), organic odor.			
	B12@5'					13		
6					- 6.0' angular rock fragments (to 5")			
	B12@7'					14	89.7	22.3
8					- 7.5' decrease in clay content, increase in silt content			
10	B12@10'				- 10.0' subangular rock fragments (to 2")	15	93.1	25.9
					- 11.5' rock fragments (to 3")			
12								
14								
	B12@15'				Sand, poorly graded, dense, slightly moist, yellowish brown, fine- to medium-grained, trace silt, friable.	21		
16								
18								
20	B12@20'					23		
					- 21.0' subangular rock fragments (to 5")			
22								
24								
	B12@25'				Sandy Clay, stiff, slightly moist, dark brown, medium- to coarse-grained, angular rock fragments (to 1").	25		
26								
					- 27.0' angular rock fragments (to 4")			
28								
					- 29.0' decrease in sand content, increase in clay content			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A12,
Log of Boring 12, Page 1 of 2

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	**BORING 12** ELEV. (MSL.) **242'** DATE COMPLETED **7/23/15** EQUIPMENT **BUCKET AUGER** BY: **RA**	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
					MATERIAL DESCRIPTION			
30	B12@30'					26	104.4	11.5
32								
34					- 33.5' subrounded cobbles (to 11")			
36	B12@36'				**SAN PEDRO SAND (Qsp)**	28		
38				SP	Sand, poorly graded, dense, slightly moist, light gray, medium- to coarse-grained.			
40	B12@40'					27		
					- 40.5' heavy caving			
					Total depth of boring: 41 feet Fill to 36 feet. No groundwater encountered. Backfilled with soil cuttings and tamped. *Penetration resistance for Kelly Bar falling 12 inches. Kelly Bar weights: 0-15 feet, 1,770 lbs, 15-30 feet, 1,200 lbs, 30-45 feet, 760 lbs, 45-60 feet, 490 lbs			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A12,
Log of Boring 12, Page 2 of 2

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

BORING 13

ELEV. (MSL.) **193'** DATE COMPLETED **7/24/15**

EQUIPMENT **BUCKET AUGER** BY: **RA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)**			
2					Sandy Silt, light brown, fine- to medium-grained, some coarse-grained, rock fragments (to 8").			
4								
6	B13@5'					11		
8					**SAN PEDRO SAND (Qsp)**			
10				SP	Sand, poorly graded, dense, slightly moist, dark yellowish brown, very fine- to fine-grained, friable. - 8.5' trace subrounded cobbles (to 5")			
					Total depth of boring: 11 feet Fill to 7.5 feet. No groundwater encountered. Backfilled with soil cuttings and tamped. *Penetration resistance for Kelly Bar falling 12 inches. Kelly Bar weights: 0-15 feet, 1,770 lbs, 15-30 feet, 1,200 lbs, 30-45 feet, 760 lbs, 45-60 feet, 490 lbs			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A13,
Log of Boring 13, Page 1 of 1

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

BORING 13A

ELEV. (MSL.) **192'** DATE COMPLETED **7/24/15**

EQUIPMENT **BUCKET AUGER** BY: **RA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)** Silty Sand, medium dense, well-graded, slightly moist, rock fragments (to 6").			
2					- 2.0' rock fragments (to 11")			
4					Sandy Clay, firm, slightly moist, brown, fine- to medium-grained, some coarse-grained, some siltstone fragments (to 1").			
6	B13A@5'					9	100.8	11.0
8					- 8.5' rock fragments (to 11") - 9.0' increase in sand content			
10	B13A@10				Clayey Sand, poorly graded, medium dense to dense, slightly moist, olive brown, very fine- to fine-grained, some subrounded cobbles (to 5"), organic odor.	16	125.2	10.6
12					Sand, well-graded, dark yellowish brown, coarse-grained, trace rounded gravel (to 1").			
14					- 13.0' rock fragments (to 6")			
16	B13A@15			SP	**SAN PEDRO SAND (Qsp)** Silty Sand, poorly graded, slightly moist, light grayish brown, very fine- to fine-grained, friable. - 16.0' trace subrounded cobbles (to 3")	12	94.0	7.8
18	B13A@18					13	88.4	4.4
					Total depth of boring: 18.5 feet Fill to 15 feet. No groundwater encountered. Backfilled with soil cuttings and tamped. *Penetration resistance for Kelly Bar falling 12 inches. Kelly Bar weights: 0-15 feet, 1,770 lbs, 15-30 feet, 1,200 lbs, 30-45 feet, 760 lbs, 45-60 feet, 490 lbs			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A14,
Log of Boring 13A, Page 1 of 1

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

BORING 14

ELEV. (MSL.) **217'** DATE COMPLETED **7/24/15**

EQUIPMENT **BUCKET AUGER** BY: **RA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0	BULK 0-5'				**ARTIFICIAL FILL (af)** Sandy Silt, firm, slightly moist, pale brown, fine- to medium-grained, some coarse-grained, rock fragments (to 11"), some cobbles (to 4"). - 1.25' concrete fragment (22" in longest dimension) - 2.5' rock fragments (to 11")			
4	B14@5'				Silty Sand, medium dense, well-graded, slightly moist, pale brown, rock fragments (to 3").	8	110.5	12.8
10	B14@10'			SM	**SAN PEDRO SAND (Qsp)** Silty Sand, poorly graded, medium dense, slightly moist, pale brown, very fine- to fine-grained, friable, subrounded gravel (to 2").	13		
15	B15@15'						88.6	2.4
					Total depth of boring: 15.5 feet Fill to 9 feet. No groundwater encountered. Backfilled with soil cuttings and tamped. *Penetration resistance for Kelly Bar falling 12 inches. Kelly Bar weights: 0-15 feet, 1,770 lbs, 15-30 feet, 1,200 lbs, 30-45 feet, 760 lbs, 45-60 feet, 490 lbs			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A15,
Log of Boring 14, Page 1 of 1

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

BORING 14A

ELEV. (MSL.) **218'** DATE COMPLETED **7/24/15**

EQUIPMENT **BUCKET AUGER** BY: **RA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)**			
					Sand, poorly graded, medium dense, slightly moist, pale brown, very fine- to fine-grained, some claystone fragments (to 5"), friable.			
2					Sand, well-graded, slightly moist, yellowish brown, some rock fragments (to 5").			
4								
6								
8					Sandy Clay, firm, slightly moist, olive brown, fine- to medium-grained, organic odor.			
10	B14A@10				- 10.0' some rock fragments (to 4")	8	121.5	11.9
12								
14								
16	B14A@15				- 15.5' trace subrounded cobbles (to 3")	12		
18								
20	B14A@20				Silty Sand, poorly graded, medium dense, slightly moist, dark yellowish brown, fine- to medium-grained, trace clay, trace cobbles (to 3").	17	120.3	9.5
22					- 21.5' rock fragments (to 5")			
24					**SAN PEDRO SAND (Qsp)**			
	BULK 25-26'			SM	Silty Sand, poorly graded, medium dense to dense, pale brown, very fine- to fine-grained, friable, micaceous.	16	98.4	3.4
26	B14A@25							
	B14A@27					18	92.5	2.8
					Total depth of boring: 27.5 feet Fill to 23.5 feet. No groundwater encountered. Backfilled with soil cuttings and tamped.			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A16,
Log of Boring 14A, Page 1 of 2

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◹ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	**BORING 14A** ELEV. (MSL.) **218'** DATE COMPLETED **7/24/15** EQUIPMENT **BUCKET AUGER** BY: **RA**	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
					MATERIAL DESCRIPTION			
					*Penetration resistance for Kelly Bar falling 12 inches. Kelly Bar weights: 0-15 feet, 1,770 lbs, 15-30 feet, 1,200 lbs, 30-45 feet, 760 lbs, 45-60 feet, 490 lbs			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A16,
Log of Boring 14A, Page 2 of 2

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◥ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

BORING 15

ELEV. (MSL.) **217'** DATE COMPLETED **7/24/15**

EQUIPMENT **BUCKET AUGER** BY: **RA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)** Sand, well-graded, loose to medium dense, pale brown, some silt, some rock fragments (to 5").			
2								
4					- 4.0' trace subrounded cobbles (to 2")			
6	B15@5'					11		
					- 6.0' rock fragments (to 11")			
8	B15@7.5'					19		
					- 8.5' tree branch			
10	B15@10'				- 10.0' trace subrounded cobbles (to 3")	19		
	BULK 10-15'							
12					- 12.0' subrounded gravel (to 1")			
					- 13.0' subrounded cobbles (to 3")			
14								
16	B15@15'					20		
18								
	BULK 19-19.5'				- 19.0' decrease in cobbles			
20	B15@20'				**SAN PEDRO SAND (Qsp)** Sandy Silt to Silty Sand, dense, slightly moist, pale brown, fine- to medium-grained, trace coarse-grained, friable.	22		
22								
24					- 23.5' subrounded gravel (to 2")			
				ML/SM	- 24.0' increase in coarse-grained sand			
	B15@25'					22		
26					- 26.5' trace subrounded cobbles (to 3")			
28								

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A17,
Log of Boring 15, Page 1 of 2

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◥ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

BORING 15

ELEV. (MSL.) **217'** DATE COMPLETED **7/24/15**

EQUIPMENT **BUCKET AUGER** BY: **RA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
30					- 30.0 to 32.5' cobble-rich zone			
32								
34				ML/SM	- 33.0' sand with gravel, yellowish brown, very fine- to fine-grained			
36	BULK 35-37'							
	B15@37'					21		
38					Sand with Silt, poorly graded, dense, slightly moist, yellowish brown, very fine- to fine-grained, some coarse-grained, some gravel (to 1").			
40				SP-SM	- 40.0' trace clay, cobble-rich zone (to 1")			
	B15@41'					22		
					Total depth of boring: 41.5 feet Fill to 20 feet. No groundwater encountered. Backfilled with soil cuttings and tamped. *Penetration resistance for Kelly Bar falling 12 inches. Kelly Bar weights: 0-15 feet, 1,770 lbs, 15-30 feet, 1,200 lbs, 30-45 feet, 760 lbs, 45-60 feet, 490 lbs			

A9201-06-01E BORING LOGS 1 TO 15.GPJ

Figure A17,
Log of Boring 15, Page 2 of 2

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

BORING B16

ELEV. (MSL.) **202** DATE COMPLETED **5/1/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)** Sandy Silt, firm, dry, light brown, fine-grained.			
2					**MARINE SAND (Qm)** Sandy Silt, stiff, dry, light brown, fine-grained.			
4	B16@3.5'					35	120.5	8.2
6	B16@5'				- firm	9	--	8.5
8	B16@8.5'				- hard, light yellowish brown	59	117.1	3.7
10	B16@10'				- firm	14	--	2.3
12				ML				
14	B16@13.5				- hard	71	115.3	1.7
16	B16@15'					60	--	3.9
18	B16@18.5					50 (5")	102.7	5.7
20	B16@20'					31	--	4.3
22	B16@23'					50 (6")	112.1	2.5
24	B16@25'				Silty Sand, dense, dry, light brown, fine-grained.	39	--	2.4
26				SM				
28	B16@27.9					50 (5")	103.1	5.9

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A18,
Log of Boring B16, Page 1 of 3

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING B16

ELEV. (MSL.) **202** DATE COMPLETED **5/1/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
30	B16@30' BULK 30-35'			SM		35	--	6.3
32								
34	B16@33'				**SAN PEDRO SAND (Qsp)** Sand, poorly graded, dense, dry, light yellowish brown, fine- to medium-grained.	50 (5")	106.0	3.1
36	B16@35'					46	--	3.4
38	B16@38'				- medium- to coarse-grained, trace gravel (to 2.5")	50 (6")	128.3	1.6
40	B16@40'				- very dense, fine-grained	57	--	5.4
42								
44	B16@42.8				- some oxidation	50 (4")	94.6	3.6
46	B16@45'			SP		67	--	4.0
48	B16@47.8				- highly oxidized	50 (4")	94.8	8.5
50	B16@50'					62	--	4.9
52	B16@52.5				- slightly moist, fine- to medium-grained	50 (6")	--	--
54								
56	B16@55'				- fine-grained	81	--	3.6
58	B16@57.7				- oxidized	50 (3")	106.2	5.7

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A18,
Log of Boring B16, Page 2 of 3

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	**BORING B16** ELEV. (MSL.) **202** DATE COMPLETED **5/1/2017** EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
					MATERIAL DESCRIPTION			
60	B16@60'			SP		58	--	--
					Total depth of boring: 61.5 feet Fill to 2 feet. No groundwater encountered. Backfilled with soil cuttings and tamped. *Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.			

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A18,
Log of Boring B16, Page 3 of 3

SAMPLE SYMBOLS

☐ ... SAMPLING UNSUCCESSFUL ◧ ... STANDARD PENETRATION TEST ■ ... DRIVE SAMPLE (UNDISTURBED)

⊠ ... DISTURBED OR BAG SAMPLE ◪ ... CHUNK SAMPLE ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. A9201-06-01E

BORING B17

ELEV. (MSL.) **189** DATE COMPLETED **5/1/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)**			
					Sandy Silt, stiff, slightly moist, dark brown, fine- to medium-grained, trace coarse-grained.			
2								
4	B17@3.5'					33	102.6	23.5
6	B17@5'				- firm	13	--	15.5
					Silty Sand, dense, slightly moist, dark brown, fine- to medium-grained.			
8	B17@7.5'					50 (6")	--	9.0
					Sandy Silt, firm, slightly moist, dark brown, fine- to medium-grained, trace brick fragments.			
10	B17@9.5'					21	--	17.5
12					- trace clay			
	B17@12.5				- stiff	39	100.7	16.2
14								
	B17@15'				- firm	15	--	13.3
16								
					Silty Sand, medium dense, dark brown, fine- to medium-grained, trace coarse-grained, trace fine gravel.			
18	B17@17.5					33	124.4	10.8
20	B17@20'					26	--	11.2
22								
	B17@22.5					47	124.4	11.6
24								
					Sandy Silt, stiff, slightly moist, dark brown, trace gravel (to 1").			
	B17@25'					22	--	26.7
26								
					Sand, poorly graded, very dense, slightly moist, brown, fine- to medium-grained, trace silt, friable.			
28	B17@27.5					50 (5")	101.1	4.9

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A19,
Log of Boring B17, Page 1 of 3

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. A9201-06-01E

BORING B17

ELEV. (MSL.) **189** DATE COMPLETED **5/1/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
30	B17@30'				- dense	35	--	13.7
32	B17@32.5				- medium dense	38	110.11	7.11
34	B17@35'					10	--	5.5
36	B17@37.5				- loose	17	104.7	6.3
38	B17@40'					7	--	5.4
40	B17@42.5				- medium dense	20	103.6	6.6
42	B17@45'				- loose	10	--	14.3
44	B17@47.5			SP	**SAN PEDRO SAND (Qsp)** Sand, poorly graded, dense, slightly moist, brown, coarse-grained.	50 (6")	106.1	6.4
46	B17@50'				- medium dense, oxidation mottling	27	--	7.7
48	B17@52.5					32	106.8	8.5
50	B17@55'					12	--	6.7
52	B17@57.5				- dense, light brown, fine- to medium-grained, some coarse-grained, friable	50 (6")	116.8	2.7
54								
56								
58								

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A19,
Log of Boring B17, Page 2 of 3

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	**BORING B17** ELEV. (MSL.) **189** DATE COMPLETED **5/1/2017** EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
					MATERIAL DESCRIPTION			
60	B17@60'				Sandstone, coarse-grained, laminated, medium hard, intensely fractured.	53	--	1.5
					Total depth of boring: 60.5 feet Fill to 46 feet. No groundwater encountered. Backfilled with soil cuttings and tamped. *Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.			

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A19,
Log of Boring B17, Page 3 of 3

SAMPLE SYMBOLS

☐ ... SAMPLING UNSUCCESSFUL ◧ ... STANDARD PENETRATION TEST ■ ... DRIVE SAMPLE (UNDISTURBED)

⊠ ... DISTURBED OR BAG SAMPLE ◪ ... CHUNK SAMPLE ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. A9201-06-01E

BORING B18

ELEV. (MSL.) **197** DATE COMPLETED **5/3/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)**			
					Silty Sand, medium dense, slightly moist, dark brown, fine- to medium-grained.			
2	B18@2.5'					14	--	28.7
4					- trace fine gravel (to 1")			
6	B18@5'					30	89.4	27.4
8	B18@7.5'				- loose	9	--	33.9
					- glass debris			
10	B18@10'				- medium dense, increase in silt content	32	92.3	26.7
12					Sand, poorly graded, medium dense, slightly moist, dark brown, fine-grained.			
	B18@12.5					21	--	12.1
14					- some clayey silt chunks, trace gravel (to 1")			
16	B18@15'					48	110.7	2.6
18	B18@17.5					16	--	6.4
20	B18@20'				- loose, brown	12	105.0	5.5
22					- dense			
	B18@22.5					38	--	19.0
24					- medium dense, some chunks of clayey silt			
26	B18@25'					33	96.8	17.9
28	B18@27.5			SP	**SAN PEDRO SAND (Qsp)** Sand, poorly graded, dense, slightly moist, light brown, medium- to coarse-grained, some cementation, locally friable. - coarse-grained	36	--	1.8

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A20,
Log of Boring B18, Page 1 of 3

SAMPLE SYMBOLS

☐ ... SAMPLING UNSUCCESSFUL ◧ ... STANDARD PENETRATION TEST ■ ... DRIVE SAMPLE (UNDISTURBED)

⊠ ... DISTURBED OR BAG SAMPLE ◥ ... CHUNK SAMPLE ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING B18

ELEV. (MSL.) **197** DATE COMPLETED **5/3/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
30	B18@30'					50 (6")	118.4	2.7
32	B18@32.5				- very dense, decrease in coarse-grained sand	67	--	1.7
34	B18@35'					50 (4")	113.8	1.5
36	B18@37.5					63	--	1.4
38	B18@40'				- medium-grained	50 (6")	107.9	1.4
40	B18@42.5					50 (6")	--	1.6
42	B18@45'			SP		50 (6")	109.9	1.9
44	B18@47.5					50 (4")	--	--
46	B18@50'					50 (5")	98.8	1.5
48	B18@52.5				- some oxidation staining	50 (3")	--	1.7
50	B18@55'					50 (5")	101.0	1.9
52	B18@57.5					50 (6")	--	1.9
54					- unoxidized			
56								
58								

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A20,
Log of Boring B18, Page 2 of 3

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	**BORING B18** ELEV. (MSL.) **197** DATE COMPLETED **5/3/2017** EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
					MATERIAL DESCRIPTION			
60	B18@60'			SP		50 (6")	108.6	2.0

Total depth of boring: 60.5 feet
Fill to 27 feet.
No groundwater encountered.
Backfilled with soil cuttings and tamped.

*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A20,
Log of Boring B18, Page 3 of 3

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING B19

ELEV. (MSL.) **212** DATE COMPLETED **5/2/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)** Silt, firm, slightly moist, trace fine-grained sand.			
2	B19@2.5'				Silty Sand, loose, slightly moist, yellowish brown, fine- to medium-grained.	14	--	11.7
4					Silt, hard, slightly moist, dark brown, fine-grained.			
6	B19@5'				Silty Sand, dense, slightly moist, yellowish brown, fine- to medium-grained.	50 (6")	118.8	12.9
8	B19@7.5'				Sand, poorly graded, dense, slightly moist, light brown, fine-grained.	33	--	--
10	B19@10'					67	116.6	11.4
12	B19@12.5'					32	--	9.8
14	B19@15'					50 (5")	122.5	9.4
16								
18	B19@17.5'				- medium dense	24	--	14.6
20	B19@20'				- dense	50 (5")	109.6	15.1
22	B19@22.5'				- wood debris	15	--	16.8
24	B19@25'				- medium dense	48	111.4	12.9
26								
28	B19@27.5'				Sand, poorly graded, loose to medium dense, slightly moist, fine-grained, friable.	10	--	8.7

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A21,
Log of Boring B19, Page 1 of 3

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING B19

ELEV. (MSL.) **212** DATE COMPLETED **5/2/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
30	B19@30'				- medium dense	26	95.5	4.0
32	B19@32.5					23	--	6.1
34					Clayey Silt, stiff, slightly moist, brown, trace fine-grained sand.			
36	B19@35'					38	--	4.3
38	B19@37.5				Sand, poorly graded, medium dense, slightly moist, light brown, fine-grained, friable.	22	--	2.0
40	B19@40'				Silty Sand, very dense, slightly moist, light brown, fine- to medium-grained, trace coarse-grained.	50 (4")	101.1	11.5
42	B19@42.5				- chunks of clay in sand matrix	39	--	8.5
44	B19@45'					75	81.0	39.3
46					Sand, poorly graded, medium dense, slightly moist, light brown, fine-grained, friable.			
48	B19@47.5				Clayey Silt, stiff, slightly moist, brown, trace fine-grained sand.	26	--	4.5
50	B19@50'				**SAN PEDRO SAND (Qsp)** Sand, poorly graded, very dense, slightly moist, light brown, fine-grained, friable.	50 (5")	--	4.5
52	B19@52.5				- dense, some clay interbeds	32	--	3.4
54				SP	- dense, fine- to medium-grained, trace coarse-grained			
56	B19@55'					50 (6")	82.8	33.8
58	B19@57.5				- very dense, increase in coarse-grained sand	51	--	2.1

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A21,
Log of Boring B19, Page 2 of 3

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING B19

ELEV. (MSL.) **212** DATE COMPLETED **5/2/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
60	B19@60'				- dense	68	113.2	4.9
62	B19@62.5				- very dense	55	--	22.1
64	B19@65'				- trace fine-grained sand	50 (6")	108.7	4.0
66	B19@67.5			SP	- dense	40	--	28.8
68	B19@70'				- very dense	50 (5")	99.4	6.3
70	B19@72.5					55	--	7.5
72	B19@75'					50 (5")	110.5	4.8
74	B19@77.5			SP	Sand, poorly graded, laminated, very dense, slightly moist, light brown.	55	--	5.2
76	B19@80'					50 (4")	80.9	38.0
78					Total depth of boring: 80.5 feet Fill to 49 feet. No groundwater encountered. Backfilled with soil cuttings and tamped. *Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.			
80								

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A21,
Log of Boring B19, Page 3 of 3

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

BORING B20

ELEV. (MSL.) **192** DATE COMPLETED **5/1/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)** Sandy Silt, stiff, wet, dark brown, fine- to medium-grained, some coarse-grained.			
2								
4								
6	B20@5'					30	106.7	17.8
8					Sand with Silt, poorly graded, medium dense, slightly moist, dark brown, fine-grained, trace gravel (to 3").			
10	B20@10'				- dense	50 (5")	116.3	12.1
12								
14					- increase in silt content, some coarse-grained			
16	B20@15'					78	125.1	11.9
18								
20	B20@20'				- very dense, some plastic debris	50 (5")	--	10.4
22								
24					- medium dense, trace gravel (to 1")			
26	B20@25'					39	99.8	22.7
28					Sand, poorly graded, medium dense, slightly moist, brown, fine-grained, trace medium-grained, trace silt and fine gravel.			

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A22,
Log of Boring B20, Page 1 of 5

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING B20

ELEV. (MSL.) **192** DATE COMPLETED **5/1/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
30	B20@30'					27	118.0	9.1
32								
34								
36	B20@35'				- decrease in silt content	23	111.7	7.8
38								
40	B20@40'				- increase in medium- to coarse-grained	21	115.0	2.9
42								
44					Sand, poorly graded, medium dense, slightly moist to moist, brown, fine- to medium-grained, some coarse-grained, trace silt, oxidized, friable.			
46	B20@45'					26	119.4	7.9
48								
50	B20@50'				- fine- to medium-grained, trace gravel (to 1")	50 (6")	124.8	8.6
52								
54					- yellowish brown, some oxidation mottling			
56	B20@55'					27	97.8	4.2
58					- some coarse-grained			

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A22,
Log of Boring B20, Page 2 of 5

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING B20

ELEV. (MSL.) **192** DATE COMPLETED **5/1/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
60	B20@60'				- very dense	50 (4")	113.1	3.3
62								
64					- oxidized			
	B20@65'				- friable	50 (5")	106.3	3.3
66								
68								
70	B20@70'					50 (3")	107.9	1.0
72					- some clayey sand chunks			
74					**SAN PEDRO SAND (Qsp)**			
	B20@75'				Sand, poorly graded, very dense, slightly moist, light brown, medium-grained, friable.	50 (5")	--	--
76								
78								
80	B20@80'				- oxidation mottling	50 (5")	104.5	2.3
82				SP				
84								
	B20@85'					50 (4")	110.4	1.2
86								
88								

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A22,
Log of Boring B20, Page 3 of 5

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◥ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING B20

ELEV. (MSL.) **192** DATE COMPLETED **5/1/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
90	B20@90'					50 (4")	--	--
92								
94					- highly oxidized bed			
96	B20@95'				- light brown, unoxidized	50 (5")	110.4	2.0
98								
100	B20@100'					50 (6")	107.1	2.4
102								
104								
106	B20@105'			SP		50 (2.5")	102.7	2.0
108								
110	B20@111'					50 (3")	--	--
112	B20@115'					50 (4")	--	0.6
114					- some coarse-grained, trace fine gravel (to 1")			
116								
118								
					- fine-grained, friable			

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A22,
Log of Boring B20, Page 4 of 5

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	**BORING B20** ELEV. (MSL.) **192** DATE COMPLETED **5/1/2017** EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
					MATERIAL DESCRIPTION			
120	B20@120			SP		50 (5")	--	1.0

Total depth of boring: 120.5 feet
Fill to 74 feet.
No groundwater encountered.
Backfilled with soil cuttings and tamped.

*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A22,
Log of Boring B20, Page 5 of 5

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING B21

ELEV. (MSL.) **236** DATE COMPLETED **5/3/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**MARINE SAND (Qm)**			
					Organic layer, silt organic			
2					Sandy Silt, firm, slightly moist, brown, fine-grained, trace medium- to coarse-grained.			
	B21@2.5'					11	--	31.3
4								
					- grades to silty sand, medium dense, slightly moist, brown, fine- to medium-grained			
6	B21@6'					20	--	30.1
8	B21@7.5'				**SAN PEDRO SAND (Qsp)** Sand, poorly graded, medium dense, slightly moist, brown, fine- to medium-grained, trace coarse-grained, trace silt.	13	--	3.1
10								
	B21@11'					26	107.4	5.0
12					- yellowish brown			
	B21@12.5					26	--	4.1
14								
16	B21@16'					32	111.0	3.9
18	B21@17.5			SP	- increase in coarse-grained	25	--	2.5
20								
	B21@21'					57	106.6	3.1
22								
	B21@22.5				- very dense, fine- to medium-grained	61	--	5.3
24								
26	B21@26'				- medium dense	24	111.2	4.8
28	B21@27.5				- dense, trace coarse-grained	41	--	3.0

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A23,
Log of Boring B21, Page 1 of 4

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING B21

ELEV. (MSL.) **236** DATE COMPLETED **5/3/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
30								
	B21@31'				- light yellowish brown, fine- to coarse-grained	54	113.7	4.1
32								
	B21@32.5					41	--	12.1
34								
36	B21@36'					80	113.7	4.3
	B21@37.5				- very dense	60	--	2.5
38								
40	B21@40.5					50 (6")	--	2.5
42								
	B21@42.5				- dense	38	--	3.7
44				SP				
	B21@45' BULK 45-50'				- very dense	50 (5")	108.2	3.0
46								
48	B21@47.5					51	--	4.8
50								
	B21@50.5					50 (4")	108.5	4.4
52								
	B21@52.5				- slightly oxidized	66	--	3.7
54								
56	B21@55.5					50 (4")	115.3	5.3
	B21@57.5					78	--	6.8
58								

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A23,
Log of Boring B21, Page 2 of 4

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

BORING B21

ELEV. (MSL.) **236** DATE COMPLETED **5/3/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
60	B21@60.5					50 (4")	109.9	4.3
62	B21@62.5					50 (6")	--	3.6
64	B21@65'					50 (5")	114.6	3.8
66	B21@67.5				- increase oxidation	50 (6")	--	4.3
68	B21@70'					50 (2")	109.9	3.8
70	B21@72.5					50 (6")	--	3.2
72				SP				
74	B21@75.5					50 (3")	111.0	3.1
76	B21@77.5					50 (4")	--	3.1
78	B21@80.5					50 (3")	107.6	3.4
80	B21@82.5				- highly oxidized	50 (4")	--	2.3
82	B21@85'					50 (6")	106.6	2.9
84	B21@87'					50 (5")	--	3.3
86								
88								

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A23,
Log of Boring B21, Page 3 of 4

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING B21

ELEV. (MSL.) **236** DATE COMPLETED **5/3/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
90	B21@90'			SP		50 (6")	106.8	3.6
92	B21@92.5				- trace coarse-grained	50 (5")	--	3.5
94	B21@95'				- fine- to coarse-grained	50 (6")	108.4	3.7
96	B21@97.5					50 (6")	--	3.1
98	B21@100'					50 (6")	111.1	3.5
100	B21@102.5					50 (6")	--	3.6
102	B21@105'					50 (5")	110.9	3.8
104	B21@107.5					50 (5")	--	2.7
106	B21@110'					50 (5")	109.1	3.0
108					Total depth of boring: 110.5 feet Fill to 7.5 feet. No groundwater encountered. Backfilled with soil cuttings and tamped. Surface restored. *Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.			
110								

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A23,
Log of Boring B21, Page 4 of 4

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING B22

ELEV. (MSL.) **203** DATE COMPLETED **5/3/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)**			
					Silty Sand, medium dense, slightly moist, dark brown with red mottles, fine- to medium-grained.			
2	B22@2.5'					13	--	37.9
4					- decrease in silt content			
6	B22@5'					22	121.2	13.0
8	B22@7.5'				Sand with Silt, poorly graded, medium dense, slightly moist, dark brown, fine-grained.	14	--	11.0
10	B22@10'				- trace coarse-grained	24	114.9	15.7
12	B22@12.5				Sand, poorly graded, medium dense, slightly moist, light brown, fine- to medium-grained, friable.	17	--	10.1
14								
16	B22@15'					29	120.9	8.4
18	B22@17.5				- trace silt	21	--	5.3
20	B22@20'					27	117.0	8.3
22	B22@22.5				- loose, light brown, fine- to medium-grained	9	--	4.0
24								
26	B22@25'				Sand with Silt, poorly graded, medium dense, slightly moist, light brown, fine- to medium-grained.	21	--	3.7
28	B22@27.5			SP	**SAN PEDRO SAND (Qsp)** Sand, poorly graded, dense, slightly moist, yellowish brown, fine- to medium-grained, some coarse-grained.	38	--	2.2

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A24,
Log of Boring B22, Page 1 of 3

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

BORING B22

ELEV. (MSL.) **203** DATE COMPLETED **5/3/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
30	B22@30'				- medium-grained, moderately cemented, locally friable	50 (6")	118.0	2.8
32	B22@32.5				- very dense	50 (5")	--	2.1
34					- trace coarse-grained, trace silt			
36	B22@35'					50 (3')	119.1	1.1
38	B22@37.5					62	--	2.5
40	B22@40'				- medium- to coarse-grained - dense	50 (6")	115.1	3.1
42	B22@42.5				- very dense	50 (6")	--	1.7
44	B22@45'			SP	- fine- to medium-grained, trace coarse-grained	50 (6")	--	1.8
46								
48	B22@47.5				- light brown, fine-grained, trace coarse-grained	50 (6")	--	3.7
50	B22@50'					50 (6")	105.4	3.6
52	B22@52.5				- fine- to medium-grained	50 (4")	--	4.0
54	B22@55'				- trace coarse-grained	50 (5")	100.4	3.4
56								
58	B22@57.5				- fine- to medium-grained, trace coarse-grained	50 (5")	--	3.0

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A24,
Log of Boring B22, Page 2 of 3

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING B22

ELEV. (MSL.) **203** DATE COMPLETED **5/3/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
60	B22@60'					50 (4")	79.3	3.5
62					- increase in medium-grained			
	B22@62.5			SP		50 (3")	--	3.2
64					- medium-grained			
	B22@65'					50 (5")	91.5	4.0

Total depth of boring: 65.5 feet.
Fill to 27 feet.
No groundwater encountered.
Backfilled with soil cuttings and tamped.

*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A24,
Log of Boring B22, Page 3 of 3

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING B23

ELEV. (MSL.) **239** DATE COMPLETED **5/4/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)**			
					Sandy Silt, firm, slightly moist, brown, fine-grained.			
2								
	B23@3'					13	--	16.4
4								
6	B23@6'				- stiff, increase in sand content, fine-grained	29	88.5	30.1
					- trace fine gravel			
8	B23@8'					19	--	20.8
10								
	B23@11'			SP	**SAN PEDRO SAND (Qsp)**	57	101.1	23.7
12					Sand, poorly graded, dense, slightly moist, brown, fine- to medium-grained, some coarse-grained.			
	B23@13'			ML	Sandy Silt, firm, slightly moist, brown, fine grained.	19	--	23.3
14								
					Sand, poorly graded, medium dense, slightly moist, brown, fine- to medium-grained, some coarse-grained.			
16	B23@16'					53	88.5	16.3
18	B23@17.5				- dense, medium-grained, yellowish brown	45	--	0.3
20								
	B23@21'				- very dense	50 (5")	107.5	2.5
22				SP				
	B23@23'				- dense	39	--	1.5
24								
					- oxidized			
26	B23@26'					86	112.4	2.7
28	B23@28'					42	--	1.6

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A25,
Log of Boring B23, Page 1 of 4

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING B23

ELEV. (MSL.) **239** DATE COMPLETED **5/4/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
30	B23@30.5				- light yellowish brown, fine- to medium-grained	50 (6")	106.3	2.0
32								
34	B23@33'				- very dense, medium-grained	53	--	1.7
36	B23@35.5					50 (6")	106.2	3.1
38	B23@38'				- oxidized	45	--	2.6
40	B23@40.5					50 (5")	105.2	3.0
42	B23@43'				- fine- to coarse-grained	53	--	0.5
44				SP				
46	BULK 45-50' B23@45.5				- gravel bed (2" thick), gravel rounded (to 0.5")	50 (4")	110.2	2.1
48	B23@48'					82	--	1.9
50	B23@50.5					50 (5")	99.8	1.9
52	B23@53'					59	--	1.4
54	B23@55'					50(6")	113.4	2.2
56								
58	B23@58'					54	--	1.6

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A25,
Log of Boring B23, Page 2 of 4

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◥ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING B23

ELEV. (MSL.) **239** DATE COMPLETED **5/4/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
60	B23@60'					50(6")	110.5	1.9
62								
64	B23@63'					67	--	9.1
66	B23@65.3					50 (3")	107.5	2.6
68	B23@68'					50 (6")	--	1.4
70	B23@70'				- fine- to medium-grained	50(6")	104.7	1.6
72								
74	B23@73'			SP		81	--	1.0
76	B23@75.5					50 (3")	101.4	1.8
78	B23@78'				- fine- to coarse-grained	50 (6")	--	1.6
80	B23@80'					50(6")	109.6	1.9
82								
84	B23@83'					50 (6")	--	1.6
86	B23@85'				- oxidized, some fine gravel (to 0.5")	50(6")	112.7	1.6
88	B23@88'					50 (6")	--	1.6

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A25,
Log of Boring B23, Page 3 of 4

SAMPLE SYMBOLS

- ... SAMPLING UNSUCCESSFUL
- ... STANDARD PENETRATION TEST
- ... DRIVE SAMPLE (UNDISTURBED)
- ... DISTURBED OR BAG SAMPLE
- ... CHUNK SAMPLE
- ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING B23

ELEV. (MSL.) **239** DATE COMPLETED **5/4/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
90	B23@90'					50(6")	104.9	1.7
92	B23@92.5			SP		50 (5")	--	1.4
94	B23@95'				- no recovery	50 (2")	--	--

Total depth of boring: 95.5 feet
Fill to 11 feet.
No groundwater encountered.
Backfilled with soil cuttings and tamped.
Surface restored.

*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A25,
Log of Boring B23, Page 4 of 4

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING B24

ELEV. (MSL.) **242** DATE COMPLETED **5/4/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)** Sandy Silt, stiff, dry, light brown, fine- to medium-grained, trace coarse-grained.			
2								
4	B24@2.5'					26	--	30.8
6	B24@6'				- hard, trace clay	44	63.7	38.7
8	B24@8'				- stiff	20	--	26.7
10								
12	B24@11'				- hard	47	62.9	35.6
14	B24@13'				- stiff	17	--	25.4
16	B24@16'				- hard	45	68.4	30.0
18	B24@18'				- stiff, brown	24	--	25.8
20								
22	B24@21'				- hard	47	91.1	21.7
24	B24@23'					30	--	22.8
26	B24@26'					42	104.1	15.9
28	B24@28'				- stiff	20	--	22.7

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A26,
Log of Boring B24, Page 1 of 4

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9201-06-01E

BORING B24

ELEV. (MSL.) **242** DATE COMPLETED **5/4/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
30	B24@31'				- hard	50	--	18.1
32	B24@33'				**SAN PEDRO SAND (Qsp)** Sand, poorly graded, dense, slightly moist, yellowish brown, fine- to coarse-grained.	32	--	6.6
34								
36	B24@36'				- very dense	50 (5")	109.0	6.5
38	B24@38'				- oxidized	51	--	1.2
40	B24@40.5				- dense	50 (6")	111.2	1.8
42	B24@43'					50	--	2.6
44	B24@45.5			SP	- increase in coarse-grained	50 (6")	114.5	5.1
46	B24@48'				- very dense	51	--	1.6
48	B24@50' BULK 50-55'					50 (6")	112.5	2.3
50	B24@53'					51	--	1.4
52	B24@55'					50 (6")	107.4	1.9
54	B24@58'					53	--	2.0
56								
58								

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A26,
Log of Boring B24, Page 2 of 4

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

BORING B24

ELEV. (MSL.) **242** DATE COMPLETED **5/4/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
60	B24@60.5					50 (4")	109.7	1.9
62					- some silt			
	B24@63'					78	--	4.1
64								
	B24@65'					50 (6")	106.1	3.1
66								
68	B24@68'					50 (3")	--	1.3
70	B24@70'					50 (5")	111.0	2.1
72					- very light brown, fine-grained, no silt			
	B24@73'					52	--	12.8
74				SP				
	B24@75'					50 (6")	96.4	12.1
76								
78	B24@78'				- some silt	82	--	9.8
80	B24@80'					50 (5")	103.6	50.6
82	B24@82.5				- medium-grained	50 (6")	--	2.9
84								
	B24@85'					50 (5")	94.4	1.4
86								
88	B24@88'					50 (5")	--	0.8

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A26,
Log of Boring B24, Page 3 of 4

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
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- ■ ... DRIVE SAMPLE (UNDISTURBED)
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GEOCON

PROJECT NO. A9201-06-01E

BORING B24

ELEV. (MSL.) **242** DATE COMPLETED **5/4/2017**

EQUIPMENT **HOLLOW STEM AUGER** BY: **MDS**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
90	B24@90'				- fine- to medium-grained, trace shell fragments	50 (6")	96.7	1.4
92	B24@92.5			SP	- slightly oxidized	50 (4")	--	2.8
94	B24@95'					50 (6")	102.2	15.4
96					Silty Sand, very dense, slightly moist, yellowish brown, fine-grained.			
98	B24@97.5					75	--	13.1
100	B24@100'			SM		50 (6")	106.2	14.7
102	B24@102.5					50 (6")	--	15.5
104	B24@105'					50 (5")	100.3	14.9

Total depth of boring: 105.5 feet
Fill to 32 feet.
Backfilled with soil cuttings and tamped.
Surface restored.

*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.

A9201-06-1E BORING LOGS 16-24.GPJ

Figure A26,
Log of Boring B24, Page 4 of 4

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
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PROJECT NO. A9201-06-01E

HAND AUGER 1

ELEV. (MSL.) **203'** DATE COMPLETED **7/22/15**

EQUIPMENT **HAND AUGER** BY: **RP**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0	BULK 0-3'				**ARTIFICIAL FILL (af)** Silty Sand, loose to medium dense, dry, brown, fine- to coarse-grained, trace rootlets.			
2					Sandy Silt, firm slightly moist, brown to olive brown, fine-grained, some coarse-grained.			
4	HA1@3'				**MARINE SAND (Qm)** Silty Sand, loose, slightly moist, brown to reddish brown, fine-grained, some coarse-grained, trace rootlets.			
6								
8	HA1@7.5'			SM				
10	HA1@10'							
12								
14	HA1@13.5'			SP	**SAN PEDRO SAND (Qsp)** Sand, poorly graded, medium dense, slightly moist, pale brown to brown, fine-grained, trace medium-grained, trace silt.			
16	HA1@15.5'				Total depth of boring: 16 feet Fill to 2.5 feet. No groundwater encountered. Backfilled with soil cuttings and tamped.			

A9201-06-01E HAND AUGER LOGS.GPJ

Figure A27,
Log of HAND AUGER 1, Page 1 of 1

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

HAND AUGER 2

ELEV. (MSL.) **196'** DATE COMPLETED **7/22/15**

EQUIPMENT **HAND AUGER** BY: **RP**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0	BULK 0-3'				**ARTIFICIAL FILL (af)** Silty Sand, loose, slightly moist, dark brown, fine- to coarse-grained, some rounded gravel (to 1/2"), trace rootlets.			
2	HA2@2'				- 1.5' mottled brown and reddish brown, slightly porous, trace rootlets		93.4	10.9
4	HA2@3.5'			SM	**MARINE SAND (Qm)** Silty Sand, medium dense, slightly moist, reddish brown, fine-grained, trace coarse-grained, some silt.			
6								
8					- 8.5' decrease in silt content			
10	HA2@10'							
12								
14								
16	HA2@15'			SP	**SAN PEDRO SAND (Qsp)** Sand, poorly graded, medium dense, slightly moist, pale brown, fine-grained, some medium-grained.			
18								
20	HA2@20'				Total depth of boring: 20.5 feet Fill to 3 feet. No groundwater encountered. Backfilled with soil cuttings and tamped.			

A9201-06-01E HAND AUGER LOGS.GPJ

Figure A28,
Log of HAND AUGER 2, Page 1 of 1

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

HAND AUGER 3

ELEV. (MSL.) **208'** DATE COMPLETED **7/22/15**

EQUIPMENT **HAND AUGER** BY: **RP**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)** Silty Sand, loose to medium dense, slightly moist, brown, fine- to coarse-grained, trace rootlets.			
2	HA3@2.5'				- 2.0' mottled pale brown and reddish brown, trace silt, sand is sub-rounded			
4								
6	HA3@6'				**MARINE SAND (Qm)** Silty Sand, reddish brown, slightly moist, medium dense, fine- to coarse-grained.			
8								
10	HA3@10'			SM	- 9.5' decrease in silt content, trace rootlets			
12								
14								
16	HA3@15'				**SAN PEDRO SAND (Qsp)** Sand, poorly graded, medium dense, slightly moist, pale brown to yellowish brown, fine- to coarse-grained, trace fine rounded gravel (to 3/4").			
18								
20	HA3@20'			SP				
22								
24	HA3@23.5				- 23.5' slightly porous, grading to mostly fine-grained			
					Total depth of boring: 23.5 feet Fill to 5.5 feet. No groundwater encountered. Backfilled with soil cuttings and tamped.			

A9201-06-01E HAND AUGER LOGS.GPJ

Figure A29,
Log of HAND AUGER 3, Page 1 of 1

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◥ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	**HAND AUGER 4** ELEV. (MSL.) **232'** DATE COMPLETED **7/23/15** EQUIPMENT **HAND AUGER** BY: **RP** MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)** Sand, poorly graded, loose, dry to slightly moist, pale brown to yellowish brown, fine-grained, large amount of siltstone fragments (to 4.5"), thinly bedded, highly weathered, massive, friable, some roots (to 2").			
2								
4								
6	HA4@5'			SP	**SAN PEDRO SAND (Qsp)** Sand, poorly graded, loose, slightly moist, pale brown to yellowish brown, fine-grained, some cemented fragments. - 6.5' some sandstone fragments			
8	HA4@7.5'				- 8.5' refusal Total depth of boring: 8.5 feet Fill to 5 feet. No groundwater encountered. Backfilled with soil cuttings and tamped.			

A9201-06-01E HAND AUGER LOGS.GPJ

Figure A30,
Log of HAND AUGER 4, Page 1 of 1

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◥ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9201-06-01E

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	**HAND AUGER 5** ELEV. (MSL.) **227'** DATE COMPLETED **7/23/15** EQUIPMENT **HAND AUGER** BY: **RP** MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**ARTIFICIAL FILL (af)** Sand, poorly graded, very loose, dry, white to pale brown, fine- to coarse-grained, some cobbles, heavy amount of trash (from 1.5-2' below slope face).			
2	HA5@2'							
4					**SAN PEDRO SAND (Qsp)** Sand, poorly graded, very loose, dry, white to pale brown, fine- to coarse-grained, some rounded cobbles, caving sands.			
6				SP				
8	HA5@8'				- 7.5' trace medium-grained sand, slightly oxidized - 8.5' caving sands Total depth of boring: 8.5 feet Fill to 3 feet. No groundwater encountered. Backfilled with soil cuttings and tamped.			

A9201-06-01E HAND AUGER LOGS.GPJ

Figure A31,
Log of HAND AUGER 5, Page 1 of 1

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
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GEOCON

PROJECT NO. A9201-06-01E

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	**HAND AUGER 6** ELEV. (MSL.) **253'** DATE COMPLETED **7/23/15** EQUIPMENT **HAND AUGER** BY: **RP**	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
					MATERIAL DESCRIPTION			
0					**ARTIFICIAL FILL (af)** Sand, poorly graded, loose, dry, pale brown, fine-grained, some coarse-grained, some rootlets, trash debris (to 1.5'), cobbles and boulders (to 2').			
2								
4	HA6@3'			SP	**SAN PEDRO SAND (Qsp)** Sand, poorly graded, medium dense, slightly moist, pale brown to yellowish brown, fine-grained.			
6	HA6@6'							
					Total depth of boring: 7 feet Fill to 2.5 feet. No groundwater encountered. Backfilled with soil cuttings and tamped.			

A9201-06-01E HAND AUGER LOGS.GPJ

Figure A32,
Log of HAND AUGER 6, Page 1 of 1

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◥ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

Appendix B: Shell Soil Disposition Reports

January 12, 2007
DELTA Project No. PA25535-1
SAP: 167119

Mr. Kenneth Lew
Torrance Fire Department
City of Torrance
3031 Torrance Boulevard
Torrance, California 90503

Re: Addendum to Soil Remediation Work Plan
dated December 12, 2005
Former Shell Service Station
25535 Hawthorne Boulevard
Torrance, California

DELTA

Dear Mr. Lew:

Delta Environmental Consultants, Inc. (DELTA), on behalf of Equilon Enterprises LLC dba Shell Oil Products US (SHELL), submits this *Addendum to Soil Remediation Work Plan dated December 12, 2005* for the above-referenced site (Figure 1). This addendum is being prepared as a modification of the *Soil Remediation Work Plan dated December 12, 2005* (Appendix A). The City of Torrance approved this work plan in a letter dated December 21, 2005 and is included as Appendix B.

The modification requested is to permit impacts above Preliminary Remediation Goal (PRG) levels to remain in the ground below 20 feet provided an acceptable Health Risk Assessment is approved by Torrance Fire Department. A Health Risk Assessment is being prepared by SHELL and will be submitted under separate cover.

The recommendations contained in this addendum represent DELTA's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This addendum is based upon a specific scope of work requested by the client. The Contract between DELTA and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This addendum is intended only for the use of

911 South Primrose Avenue Suite K Monrovia, California 91016 USA
Phone 626.256.6662 / 800.477.7411 Fax 626.256.6263 www.deltaenv.com

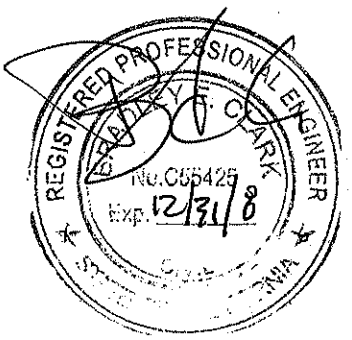
DELTA's client and anyone else specifically listed on this report. DELTA will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, DELTA makes no express or implied warranty as to the contents of this report.

This work was performed in accordance with generally accepted environmental consulting practices and principles. If you have any questions about this report or the information presented herein, please call either Ms. Gretchen Tagavilla (DELTA) or Mr. Randy Orlowski (SHELL) at (949) 360-1111.

Sincerely,
Delta Environmental Consultants, Inc.

Gretchen Tagavilla
Project Associate

Bradley E. Clark, P.E. C55425
Senior Project Engineer



cc: Mr. Randy Orlowski, Shell Oil Products US
Mr. Brad Clark, DELTA
Mr. Roger Green, Sunrise Senior Living
Ms. Lyn Bloomfield, Kleinfelder
Mr. Ken C. Carter, City of Torrance Fire Department
Mr. John Kulluck, City of Torrance Fire Department

ATTACHMENTS:

Appendix A – Kleinfelder Work Plan dated December 12, 2005

Appendix B - City of Torrance Letter dated December 21, 2005

APPENDIX A

KLEINFELDER WORK PLAN DATED DECEMBER 12, 2005

SOIL REMEDIATION WORKPLAN
PROPOSED
SUNRISE ASSISTED LIVING FACILITY
25535 AND
25551-25587 HAWTHORNE BOULEVARD
TORRACNE, CALIFORNIA

December 12, 2005

Workplan Prepared for:

Sunrise Development, Inc.
1837 Pecan Circle
Corona, California 92882

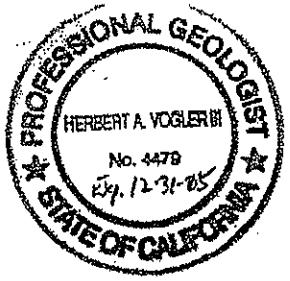
SOIL REMEDIATION WORKPLAN
PROPOSED SUNRISE ASSISTED LIVING FACILITY
25535 and 25551-25589 HAWTHORNE BOULEVARD
TORRANCE, CALIFORNIA

Kleinfelder Job N0. 46817

Prepared by:

Carolyn P. Bloomfield

Carolyn 'Lyn' P. Bloomfield, Ph.D.
Project Manager



Herbert 'Bert' A. Vogler III, P.G.
Senior Hydrogeologist

KLEINFELDER, INC.
620 West Sixteenth Street, Suite F
Long Beach, California 90813
(562) 432-1696

December 12, 2005

Table of Contents

1.0 BACKGROUND

The site is located west of the intersection of Hawthorne Boulevard and Rolling Hills in Torrance (Plate 1). The site is currently developed, occupied by an approximate 11,000 square-foot multi-tenant retail building (25551-25589 Hawthorne Boulevard) and an approximately 1,500 square-foot building (25535 Hawthorne Boulevard) that was formerly part of a retail gasoline service station. The multi-tenant retail building was constructed in 1966 and the former gas station was constructed in 1967.

The proposed use for the site is a senior assisted living facility. The current buildings, paved areas, roads, and utilities will be removed from the site. Prior to the commencement of construction, volatile organic compound (VOC)-impacted soil that may pose concern for human health and the environment will be removed for offsite treatment and disposal.

2.0 ENVIRONMENTAL SITE ASSESSMENTS

Kleinfelder, Inc. (Kleinfelder) performed a Phase I Environmental Site Assessment (ESA) at the site, which revealed evidence of recognized environmental conditions associated with the former retail gasoline station operations. There is a potential for hydrocarbon and/or VOC bearing soils to exist in the areas surrounding the former UST cavity and the fuel dispenser islands.

Kleinfelder performed a Phase II ESA to assess the presence of hydrocarbon and/or VOC impacted soils in the vicinity of the former gasoline station. Kleinfelder drilled exploratory borings and collected soil samples from four locations onsite. A summary of the results is outlined below:

- Boring KA-1 (located west of the gasoline station building):

  Total petroleum hydrocarbons in the gasoline range (TPH-g) and VOCs were not detected at concentrations above the applicable laboratory detection limits.

- Boring KA-2 (located north of the UST cavity):

  At 10 feet below ground surface (bgs), TPH-g was detected at a concentration of 814 milligrams per kilogram (mg/kg), which exceeds the Los Angeles Regional Water Quality Control Board (LARWQCB) acceptable concentration of 500 mg/kg, and benzene was detected at a concentration of 1.49 mg/kg, which exceeds the United States Environmental Protection Agency (US EPA) Region 9 Residential Preliminary Remediation Goal (PRG) of 0.64 mg/kg.

- Boring KA-3 (located southwest of the UST cavity):

  At 15 feet bgs benzene was detected at a concentration of 2.68 mg/kg, which exceeds the Residential PRG of 0.64 mg/kg, 1,2,4-trimethylbenzene was detected at a concentration of 150 mg/kg, which exceeds the Residential PRG of 52 mg/kg, and 1,3,5-trimethylbenzene was detected at a concentration of 30.5 mg/kg, which exceeds the Residential PRG of 21 mg/kg.

- Boring KA-4 (located southeast of the UST cavity):

  At 15 feet bgs, 1,2,4-trimethylbenzene was detected at a concentration of 174 mg/kg, which exceeds the Residential PRG of 52 mg/kg, and 1,3,5-trimethylbenzene was detected at a concentration of 36.7 mg/kg, which exceeds the Residential PRG of 21 mg/kg.

The Phase II ESA soil sample analytical results indicated that TPH-g and VOCs were detected at concentrations that exceed LARWQCB acceptable concentrations and the US EPA Region 9 Residential PRGs. Kleinfelder recommended removal of the impacted soil to mitigate potential health risks if the site is developed for residential use. Based on the results of the Phase II ESA Kleinfelder recommended:

- Soil in the vicinity of Borings KA-2, KA-3, and KA-4 should be removed and disposed offsite at a licensed disposal facility. Based on the results of the Limited Phase II investigation Kleinfelder estimated a hydrocarbon-affected soil volume of 2,500 cubic yards (yd^3) (approximately 3,800 tons). This estimate is based on an assumed rectangular volume of the following dimensions: 75 feet from north to south, 50 feet from west to east, and a depth of 18 feet. The rectangular area encompasses the three exploratory borings with detected hydrocarbon concentrations (i.e., Borings KA-2, KA-3, and KA-4), as depicted in Plate 2, to a depth of 18 feet bgs, which includes the maximum depth of impacted soils that exceeded the cited regulatory thresholds in the borings sampled during the assessment. The actual volume of hydrocarbon-affected soil may vary because the lateral extent of affected soils was not fully assessed during the Limited Phase II investigation.
- Offsite treatment of the impacted soil by thermal desorption, which removes property owner liability of disposing untreated soil.
- Further assessment should be performed to more accurately assess the area of hydrocarbon-affected soils. Therefore, the exact volume of soil requiring offsite removal and disposal is unknown at this time.
- Based on the results of the supplemental assessment, develop a plan to remediate the hydrocarbon-impacted soil, with the volume of impacted soil depending upon the results of the supplemental assessment activities.

The Reynolds Group performed a supplemental site investigation in March 2005 to assess the vertical and lateral extent of the petroleum impacted soils. An additional five step-out soil borings were advanced to a depth of 50 feet bgs, and soil samples were collected at 5-foot intervals. Elevated concentrations of TPH-g, benzene, toluene, ethylbenzene, and xylenes were detected in soils collected in the soil borings at a maximum depth of 20 feet bgs. The Reynolds Group concluded that the volume of soil that may be impacted with petroleum hydrocarbons at levels above appropriate industry guidelines, as estimated by Kleinfelder in October 2004, appears to accurately reflect what is anticipated to be actually encountered in the field.

3.0 FINAL SITE USE

The final planned use for the site is an assisted living facility for seniors. Site activities will include the construction of an approximately 65,000-square foot, four-story building with one level of underground parking, and placement of associated utilities. Based on the Phase II Environmental Site Assessment results and the proposed site cleanup activities, the environmental concerns and risks at the site will be mitigated prior to the planned development of the project.

The contaminants of concern currently present at the Site are gasoline-range hydrocarbons, and the individual constituents comprising TPH-g, including certain VOCs. VOCs detected during the performance of the Phase II ESAs include benzene, toluene, ethylbenzene, xylenes, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene.

At the discretion of the Torrance Fire Department (TFD), hydrocarbon- and VOC-impacted soil maybe left in place after the cleanup is completed, but only if the impacted soil is at a depth of 20 feet bgs or greater, and the concentrations of contaminants are below Residential PRGs. Soil within 20 feet of the ground surface will be cleaned up to non-detect levels per TFD requirements. The proposed cleanup procedure is outlined below:

- The proposed remedial method is soil excavation, offsite treatment, and disposal.
- If analytical results of a confirmation soil sample indicate that concentrations of contaminants are below laboratory detection limits (i.e., non-detect), then excavation may be halted.
- If analytical results of a confirmation soil sample (collected at any depth) are above the LARWQCB screening level for TPH-g and/or the Residential PRGs, additional excavation will be performed until additional confirmation sample analytical results indicate that chemical concentrations satisfy the remedial cleanup criteria, as outlined in Section 6.4.
- If analytical results of a confirmation soil sample indicate that concentrations are detected but below the cleanup criteria (i.e., the LARWQCB screening level for TPHg and the Residential PRGs), and the excavation is less that 20 feet deep, then excavation will continue.
- If analytical results of a confirmation soil sample indicates that concentrations are below the LARWQCB screening level for TPH-g and the Residential PRGs, and the excavation is greater than 20 feet deep, then excavation may be halted.
- **If chemicals of concern are left in place at 20 feet bgs or deeper, closure of the site will be dependent upon results of a Human Health-Based Risk Assessment.**

4.0 REMEDIATION GOALS AND OBJECTIVES

Remediation objectives are established to protect human health and the environment. They are based on site-specific contaminants of concern discovered during the Phase II ESAs, their exposure routes, and receptors. The contaminants of concern at the site are TPH-g and aromatic VOCs. The remediation objectives for the site are to:

- Minimize the potential lateral and vertical migration of contaminants. This includes migration to clean soil, air, surface water, and groundwater.
- Minimize the potential exposure (via ingestion, dermal contact, and inhalation) of humans to contaminants.

Considering the relatively shallow depth of the hydrocarbon- and VOC-impacted soil at the site, the most viable remedial action is excavation and offsite treatment and disposal of the impacted soil. The remediation goals are as follows:

- Excavation and offsite treatment (via thermal desorption/incineration) and disposal of hydrocarbon- and VOC-impacted soils that pose a concern for human health and the environment.
- Offsite treatment and disposal of soils containing concentrations of contaminants which exceed agency guidelines/thresholds:
  - TFD:

    TFD (the lead agency for the case) is requiring a cleanup of the contaminants of concern at the site to non-detect levels in the upper 20 feet of soil. If, after the removal of the top 20 feet of soil, detectable concentrations of contaminants remain, then the concentrations of these contaminants must be below the LARWQCB TPH-g screening level and the Residential PRGs, as discussed below. If contaminants of concern are to remain in the soil, a human health-based risk assessment will be performed for the site, to assess the resulting risk to human health.
  - LARWQCB:

    The LARWQCB's Interim Site Assessment and Cleanup Guidebook for Los Angeles and Ventura Counties, dated May 1996, established a maximum soil screening level of 500 mg/kg for TPH-g (carbon range C4-C10).
  - US EPA Region 9 Residential PRGs:

    The PRGs are human health risk-based tools for evaluating and cleaning up contaminated sites. They are considered by US EPA to be protective for humans (including sensitive groups) over a lifetime. The Residential PRGs for the contaminants of concern are listed below:

Benzene	0.64 mg/kg.
Toluene	520 mg/kg.

Ethylbenzene	400 mg/kg.
Xylenes	270 mg/kg.
1,2,4-Trimethylbenzene	52 mg/kg.
1,3,5-Trimethylbenzene	21 mg/kg.

5.0 REMEDIATION OVERSIGHT

Remediation activities at the proposed Sunrise Assisted Living Facility will be under the jurisdiction of TFD. Activities will be coordinated with TFD to ensure that remediation adheres to TFD requirements and local, state, and federal standards. TFD will perform the following tasks during remediation activities:

- Approval of Remediation Workplan.
- Issuance of Remediation Permits.
- Oversight of soil excavation, at TFD's discretion.
- Direction and oversight of confirmation and stockpile soil sampling.
- Approval of closure report.
- Case closure.

TFD will be issued a schedule of the proposed remediation activities to assist with coordination of personnel for oversight.

6.0 REMEDIATION IMPLEMENTATION

6.1 Permitting

Site Demolition Permit

A site demolition permit will be obtained from the Torrance Department of Building and Safety, prior to the commencement of the remediation activities.

Rule 1166

South Coast Air Quality Management District (SCAQMD) Rule 1166 sets requirements to control the emission of VOCs from excavating, grading, handling, and treating VOC-contaminated soil.

A VOC-contaminated soil is defined in Rule 1166 as a soil which registers a concentration of 50 parts per million (ppm) or greater of VOCs as measured with an organic vapor analyzer calibrated with hexane before suppression materials have been applied and at a distance of no more than 3 inches from the surface of the excavated soil.

Monitoring is required at least once every 15 minutes commencing at the beginning of excavation or grading. All VOC concentration readings must be recorded. When VOC concentrations exceed 50 ppm, SCAQMD will be notified. SCAQMD also requires notification again if VOC concentrations exceed 1,000 ppm, in which case the soil containing these concentrations must be placed into a container with a tightly fitting lid.

A site-specific plan (Rule 1166 Permit) is required for the remedial excavation work at the proposed Sunrise Torrance facility, because it is anticipated that the contaminated soil to be excavated will exceed a volume of 2,000 yd^3. The Rule 1166 permit application will be prepared by Kleinfelder, and the permit obtained from SCAQMD, prior to the commencement of the remediation activities. The Rule 1166 Permit will be adhered to by Kleinfelder and the excavation subcontractor during the remedial excavation activities.

A copy of Kleinfelder's Various Locations Rule 1166 Permit has been included in Appendix A.

6.2 Schedule

Remedial excavation at the site can begin once the necessary permits have been obtained. A schedule for the remediation activities has not been established to date; once a schedule is established, TFD will be notified.

A pre-construction meeting will be held and will include representatives of Sunrise (the site developer), the General Contractor, TFD, and Kleinfelder. This meeting will facilitate the final scheduling and staging of the remediation activities. Immediately prior to performing the remediation activities, a detailed schedule of the planned remedial excavation activities will be issued to TFD, as discussed at the pre-construction meeting. This will include specific information

regarding the date and time of the commencement of excavation, estimated time for the collection of confirmation samples, off-hauling of impacted soils, and excavation backfilling. If the schedule changes during remediation activities, a revised schedule will be forwarded to the TFD.

6.3 Utility Clearance

Underground Service Alert (USA DigAlert) at 1-800-642-2444 provides a partial location service free of charge for major utility lines. California law requires at least 48 hours (two working days) notification of USA DigAlert prior to performing intrusive activities. Prior to the commencement of the excavation activities, USA DigAlert will be contacted to arrange for utility marking within pertinent public rights of way and utility easements.

Since USA DigAlert does not mark underground utilities on private property, a geophysical subcontractor will be procured to locate and mark detectable lines within the proposed work area.

6.4 Excavation Confirmation Sampling

Confirmation samples will be collected from the excavation bottoms and sidewalls. The sampling frequency will be based on collection of one "grab" sample from the excavation bottom/floor per 400 square feet of exposed excavation floor, and one "grab" sample from the excavation sidewall per 100 square feet of exposed excavation sidewall.

If analytical results of a confirmation soil sample indicate that concentrations of contaminants are below laboratory detection limits (i.e., non-detect), then excavation may cease.

If analytical results of a soil confirmation sample (collected at any depth) are above the LARWQCB screening level for TPH-g and/or the Residential PRGs, additional excavation will be performed in the vicinity of the sample location, and then another confirmation sample will be collected from the newly excavated area. This process of excavation and confirmation sampling will continue until analytical results indicate that chemical concentrations satisfy the remedial cleanup criteria, as follows:

- TPH-g (C4-C10) 500 mg/kg.
- Benzene 0.64 mg/kg.
- Toluene 520 mg/kg.
- Ethylbenzene 400 mg/kg.
- Xylenes 270 mg/kg.
- 1,2,4-Trimethylbenzene 52 mg/kg.
- 1,3,5-Trimethylbenzene 21 mg/kg.

If analytical results of a confirmation soil sample indicate that concentrations are detected below the cleanup criteria outlined above, and the excavation is less that 20 feet deep, then excavation will continue.

If analytical results of a confirmation soil sample indicates that concentrations are below the LARWQCB screening level for TPH-g and the Residential PRGs and the excavation is greater than 20 feet deep, then excavation may cease. If chemicals of concern are left in place at 20 feet bgs or deeper, closure of the site will be dependent on a Human Health-Based Risk Assessment.

Confirmation soil samples will be collected in either:

- 2-inch by 3-inch diameter brass sleeves. The ends of the sleeves are to be covered with Teflon sheets and capped with tight fitting plastic caps.
- Wide-mouth glass jars with airtight screw lids.

The contaminants of concern at the site are TPH-g and VOCs. Confirmation soil samples will be analyzed as follows:

- TPH-g using modified US EPA Method 8015, and
- VOCs (including oxygenates), sub-sampled and field-preserved per US EPA Method 5035, and analyzed using US EPA Method 8260B.

Samples will be labeled with the following information and submitted for laboratory analysis in ice chests accompanied with chain-of custody records.

- Project number.
- Project name.
- Sample location.
- Date of sample collection.
- Time of sample collection.
- Sampler's initials.

Analytical testing will be performed by an onsite mobile laboratory that is accredited by the California Environmental Laboratory Accreditation Program (ELAP).

6.5 Control Measures

Dust control measures will be implemented by the remediation contractor to minimize the concentration of airborne particulates resulting from excavation activities. Standard dust control practices include light application of water (spraying), street sweeping, and disposal truck cleaning and covering before leaving the site. Fugitive dust levels will be visually monitored and appropriate mitigation measures will be implemented as required.

Hydrocarbon-impacted soil may produce offensive odors when disturbed. Odor mitigation may be necessary, depending on the actual conditions as the

hydrocarbon-affected soil is disturbed/exposed. The contractor will be required to take appropriate measures that may include the following:

- Reduction in emissions by reducing the volume of waste exposed to the atmosphere at one time.
- Addition of mist/moisture during excavation.
- Minimization of the soil drop height from the excavator bucket onto the soil stockpile or into the trucks.
- Excavation and loading of impacted soil from the leeward side and use of wind screens.
- Direct fresh air venting using large fans.

Excavation will not be performed at excessively windy periods of the day. Excavated soils placed in stockpiles will be securely covered with plastic sheeting.

The site will be secured using a temporary barrier to reduce the potential for unauthorized personnel to enter the excavation. In the event of rainfall, engineering measures will be implemented to prevent the entry/collection of rainwater in the excavation.

6.6 Soil Excavation and Stockpiling

Conventional construction equipment, such as a front-end loader equipped with a backhoe, or an excavator, will be used to excavate the soil. The predicted depth of the excavation is approximately 18-20 feet bgs. The excavation walls will be sloped at a 2:1 ratio (according to the Department of Labor Occupational Safety and Health Organization regulations), to promote sidewall stability and safety of the workers and equipment.

Contaminated soil planned for offsite treatment will be excavated and transferred directly into trucks without stockpiling. Direct loading will minimize handling of impacted soil, which reduces exposure of impacted soil to the atmosphere and the surrounding community. Single handling will also reduce cleanup time and costs. If direct placement of hydrocarbon and VOC-impacted soil into trucks is not viable, the excavated soil will be temporarily placed in stockpiles onsite. Soil will be stockpiled by placement onto 6-mil plastic sheeting, and covered with 6-mil plastic sheeting. Stockpiles will be limited each to a volume of 250 yd^3, and will be removed from the site within 48 hours. The location of the stockpiles will consider the following:

- Minimize interference with excavation activities.
- Minimize the distance between the excavation (source) and the stockpile, which will reduce the potential spread of hydrocarbon- and VOC-impacted soil across the site.
- Trucks can be easily loaded for offsite disposal.

During excavation, segregation of soil will be performed based on field screening using a photo-ionization detector (PID) calibrated with hexane in accordance with SCAQMD Rule 1166. Soils exhibiting vapor concentrations greater than 50 ppm by volume (ppmv), if encountered, will be stockpiled separately from those exhibiting concentrations less than 50 ppmv. Soils exceeding 50 ppmv will be stockpiled, covered, and secured with plastic sheeting, or will be loaded into trucks for transportation to a licensed treatment facility.

Clean soil generated during excavation activities, such as overburden soil or soil generated during sloping of the excavations, will be temporarily stockpiled onsite and reused as backfill. Clean stockpiles will be covered with 6-mil plastic to reduce dust emissions or potential sediment runoff in the event of rainfall. Confirmation soil samples collected from the clean stockpiles will be analyzed prior to reuse of soil.

The excavations will be backfilled with clean overburden generated from excavation activities, supplemented with clean soil from excavation of the subterranean parking garage. Compaction of the remedial excavation will be performed during grading of the site in accordance with the recommendations of the geotechnical engineer.

6.7 Stockpile Profiling / Sampling

It is anticipated that the hydrocarbon- and VOC-impacted soil will be profiled for offsite treatment and disposal based on stockpile samples collected at the time of excavation. Each stockpile sample will be collected at least 18 inches below the surface of the stockpile. Three discrete soil samples from within each up to 250 yd^3 stockpile will be collected and composited for testing as one sample. It is estimated that if 2,500 yd^3 of soil is removed from the excavation, ten stockpiles will be generated. Ten stockpiles will result in ten stockpile soil samples being analyzed (30 soil samples will be collected, three from each stockpile, and analyzed as ten composite samples, one composite for each stockpile). The analytical results for a given stockpile will be used to characterize that stockpile for offsite treatment/disposal or reuse onsite.

6.8 Soil Transportation and Disposal

It is estimated that approximately 2,500 yd^3 (3,800 tons) of non-hazardous hydrocarbon- and VOC-impacted soil will be generated during the remediation activities.

Soil analytical data collected from the stockpiles during the remedial excavation activities will be used to profile the material prior to offsite disposal. Upon written acceptance by an approved treatment facility, the hydrocarbon- and VOC-impacted soil will be loaded into trucks and transported directly to the treatment facility for thermal desorption (incineration).

The treatment facility where the soil will be disposed has not been identified at present. A treatment facility name, address, and contact information will be

provided upon selection of a remediation contractor and waste management company.

Each load of soil will be accompanied by an appropriate waste manifest. The owner or owner's designee will be responsible for signing each waste manifest prior to departure from the site.

It is estimated that approximately 190 truck loads will be required to remove the hydrocarbon-impacted soil to the treatment facility, based on a per load capacity of 20 tons.

The egress to the site will be controlled for safety purposes both on the surface streets and onsite. Dust suppression measures (water spraying) will be implemented during truck loading if necessary. Vehicles will maintain slow speeds to minimize dust emissions. Immediately after loading of each truck is complete, the loaded truck will be covered with a tarp to prevent dust emissions or spillage during transportation. Prior to leaving the site, trucks will be decontaminated, as discussed in Section 6.9.

The transportation route from the site to the treatment facility will utilize designated truck routes, and will be provided to TFD after selection of the treatment facility.

Certified weight tickets will be obtained from the treatment facility to document the amount of treated soil. A certificate of treatment/disposal will be provided to Sunrise and/or TFD no later than 30 days following treatment.

The remediation contractor's site manager will be responsible for the oversight of loading of the soil, dust suppression, and truck decontamination.

6.9 Decontamination

Decontamination will mitigate contamination from leaving the site by way of equipment or personnel. Decontamination will also mitigate exposure of unprotected field personnel to impacted materials.

Vehicles and equipment leaving the site will be visually inspected prior to exiting the site. If necessary, based on visual observations, vehicles and equipment leaving the site will proceed through a decontamination station. Decontamination of vehicles will include washing and brushing of wheels and removal of loose dirt from the underside of the vehicles prior to the vehicles entering roadways.

Supervision and documentation of vehicle and equipment inspection and decontamination will be performed to control equipment from leaving the site without proper cleaning.

7.0 HEALTH AND SAFETY

The remediation contractor will prepare a site-specific Health and Safety Plan prior to the commencement of the excavation work. The Health and Safety Plan will be adhered to by onsite personnel, especially those working in controlled areas. A "tailgate" health and safety meeting will be held at the beginning of each workday, prior to the commencement of work. It is mandatory that all personnel working on the site will be familiar with the Health and Safety Plan and attend the daily meetings.

Onsite workers will be required to sign the Health and Safety Plan to document their understanding and compliance with the plan. A copy of the Health and Safety Plan and the daily sign in sheets will be maintained onsite by the remediation contractor's site manager.

The Health and Safety Plan will:

- Incorporate knowledge of chemical characteristics of materials reportedly present on the site.
- Address the hazards associated with excavation activities.
- Provide an address and telephone number of the closest hospital having an Emergency Room.
- Provide a map showing the recommended route to the selected hospital.
- Provide emergency telephone numbers.
- Recommend the required Personal Protection Equipment.

A sample Health and Safety has been attached in Appendix B.

8.0 SITE SECURITY

Site security will be the responsibility of the remediation contractor.

A barrier and signage, indicating that unauthorized entry is prohibited, will be used during the remedial excavation activities to secure the site and warn unauthorized people to not enter the site at any time.

Site controls will include zoning of specific areas of the site for purposes of site entrance/exit, equipment storage, stockpile areas, decontamination stations, and support facilities. Field setup will include designating controlled areas of the site including an exclusion zone, a contamination reduction zone, and support zone. The exclusion zone and contamination reduction zone will be considered controlled areas of the site and will be monitored to prevent unauthorized personnel from entering these areas. The controlled areas of the site will be marked with caution tape and barriers.

Access to the controlled areas will be controlled during the remediation activities. Personnel entering the controlled areas will be required to adhere to the Health and Safety Plan. Entry of unprotected personnel (for example, vendors and visitors) to controlled areas will be forbidden without proper medical surveillance, safety training, and personal protective equipment.

9.0 SITE RESTORATION

Upon receipt of acceptable confirmation sample analytical results, and therefore completion of remedial excavation, the excavation will be:

- Backfilled with clean overburden soil, generated during excavation activities,
- Backfilled with clean soil removed during over-excavation of the parking garage, and
- Secured with a security fence.

Prior to reuse of segregated overburden soil, confirmation samples will be collected (one composite sample per 250 yd^3 of stockpiled soil) and submitted for laboratory testing to ensure the site cleanup criteria are met.

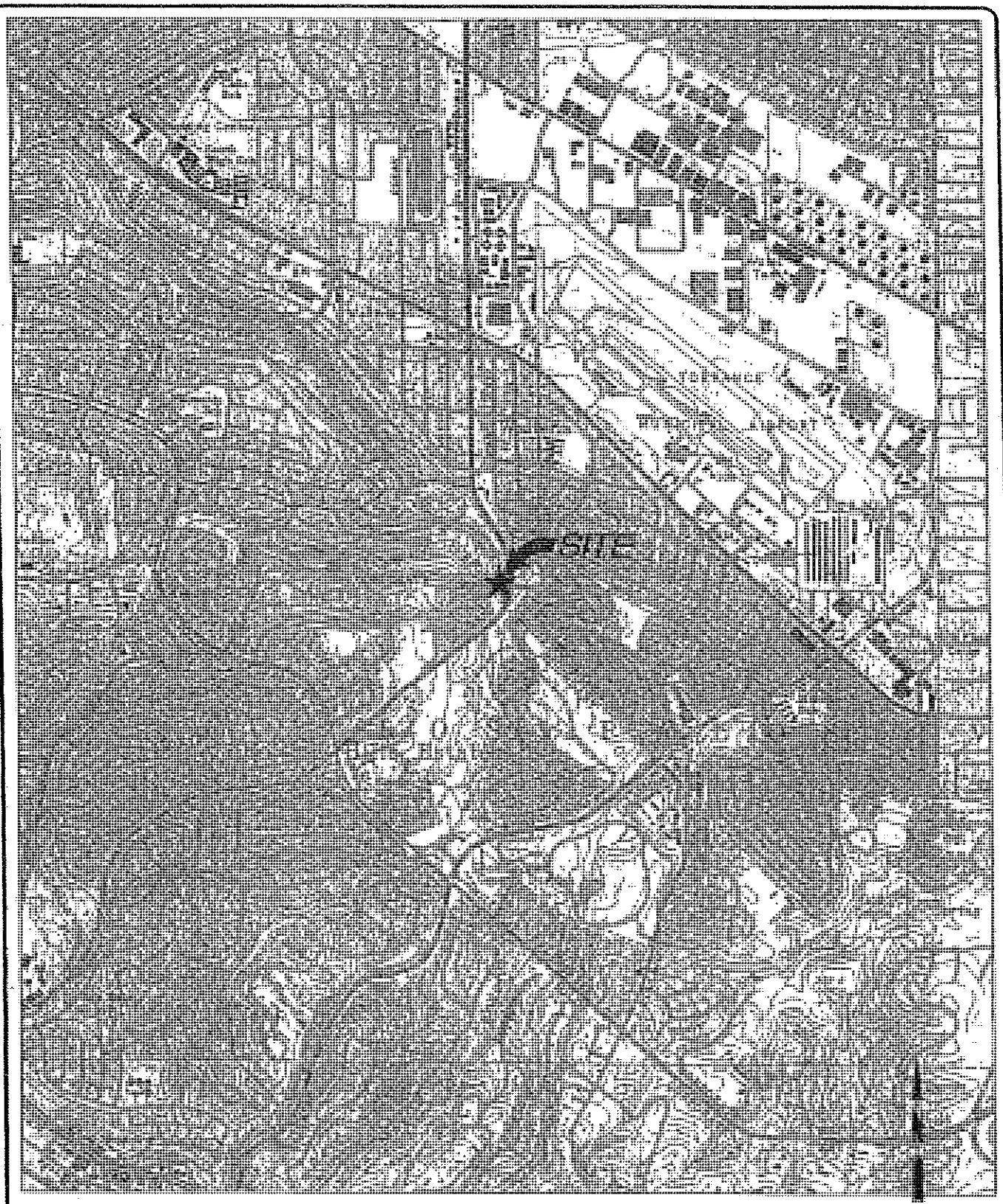
10.0 SITE CLOSURE

Following completion of site cleanup, a Site Closure Report will be prepared. The report will include illustrations and pertinent documentation regarding the remediation activities. The report will contain the following:

- A description of the project.
- A description of the surface and subsurface conditions encountered during excavation.
- Results of stockpile and excavation confirmation soil sample analyses, including analytical laboratory reports.
- Site plan showing the location of the excavation, including volumes of removed soil and confirmation sample results.
- Soil disposal manifests.

The Closure Report will be submitted to TFD. Once TFD is satisfied that site remediation is complete, TFD will prepare and issue a Closure Letter.

PLATES



SOURCE: U.S.G.S. 7.5' topographic series, Torrance, California quadrangle dated 1964, photorevised 1981.

0 FEET 2,000

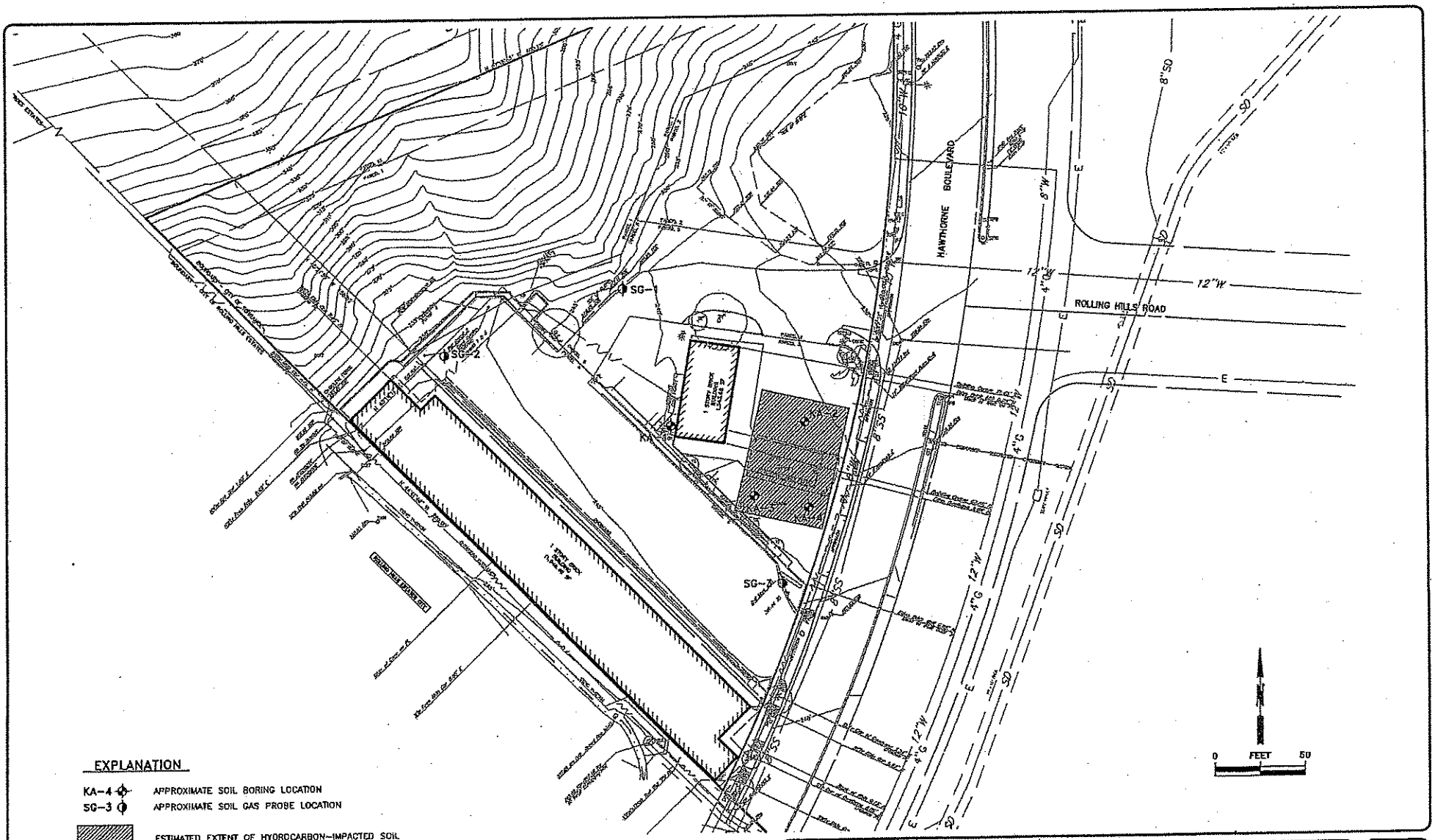
KLEINFELDER

PROPOSED SUNRISE ASSISTED LIVING FACILITY
24601 Hawthorne Boulevard
Torrance, California

Project: 46817 October 2005

SITE LOCATION MAP

PLATE
1



EXPLANATION

KA-4 ⊕ APPROXIMATE SOIL BORING LOCATION

SG-3 ⊕ APPROXIMATE SOIL GAS PROBE LOCATION

ESTIMATED EXTENT OF HYDROCARBON-IMPACTED SOIL

KLEINFELDER

PROPOSED SUNRISE ASSISTED LIVING FACILITY
24601 Hawthorne Boulevard
Torrance, California

Project: 46817 December 2005

BORING LOCATION MAP

PLATE 2

APPENDIX A

SCAQMD 1166 PERMIT

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 · www.aqmd.gov

PLAN ISSUE DATE

APPROVAL SIGNATURE

David Jones
A.Q.A.C. Supervisor

COMPANY I.D.:
Mitigation Plan/Application No.
Applicant:

Attention:
Phone

VARIOUS LOCATIONS
RULE 1166 CONTAMINATED SOIL MITIGATION PLAN

Reference is made to your application (A/N 446943) for the excavation and handling of VOC-contaminated soil at various locations within the South Coast Air Quality Management District.

In accordance with Rule 1166 (c), this approved plan is required prior to commencing excavation of any areas, sites, or locations which has previously been used to store or transfer volatile organic compounds (VOC) or during the excavation, handling, or storage of VOC-contaminated soils.

The rights and privileges granted through the issuance of this plan are restricted exclusively to the plan holder to whom it was issued, and are non-transferable, even with the written or expressed consent of the plan holder listed above.

A VARIOUS LOCATIONS PLAN can be used at a site to excavate and remove a maximum of 2000 cubic yards of VOC contaminated soil at the site. Any treatment or additional excavation of VOC contaminated soil at the site will require the issuance of a SITE SPECIFIC plan by the AQMD. Multiple use of VARIOUS LOCATIONS PLANS to excavate over 2000 cubic yards of contaminated soil for the same site is prohibited per Rule 1166.

This excavation and mitigation plan has been approved under the provisions of Rule 1166 of the Rules and Regulations of the AQMD and is subject to the following conditions.

THIS PLAN WILL EXPIRE ONE YEAR FROM THE ISSUE DATE AND THERE IS NO AUTOMATIC RENEWAL PROCESS.

TO MAINTAIN A CURRENT PLAN AFTER THE EXPIRATION DATE, FILE AN APPLICATION FOR A NEW PLAN AT LEAST ONE MONTH PRIOR ITS EXPIRATION. CALL 909 396- 2682 OR E-MAIL rvishwanath@aqmd.gov FOR AN APPLICATION PACKAGE AND CURRENT FEE INFORMATION.

PLAN CONDITIONS

SECTION I – GENERAL REQUIREMENTS

1. A SIGNED COPY OF THIS PLAN SHALL BE PRESENT AT EACH EXCAVATION SITE AT ALL TIMES AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

2. THIS PLAN IS NOT VALID FOR THE EXCAVATION OF VOC CONTAMINATED SOILS AT LANDFILLS OR SITES USED FOR DISPOSAL OF REFUSE OR OTHER TYPES OF WASTE.

3. THIS PLAN DOES NOT ALLOW THE TREATMENT OF VOC-CONTAMINATED SOIL BY THERMAL, CHEMICAL, OR MECHANICAL PROCESSES. ANY OF THE ABOVE TREATMENT PROCESSES REQUIRES A PERMIT TO OPERATE FROM THE AQMD AND A SITE-SPECIFIC RULE 1166 PLAN.

4. THIS PLAN DOES NOT ALLOW BACK-FILLING OF TREATED VOC CONTAMINATED SOIL. BACK-FILLING OF TREATED VOC CONTAMINATED SOIL MAY BE ALLOWED UNDER A SITE SPECIFIC RULE 1166 PLAN.

5. A). THE TOTAL QUANTITY OF VOC CONTAMINATED SOIL EXCAVATED AND HANDLED AT EACH SITE SHALL NOT EXCEED 2,000 CUBIC YARDS. THIS TOTAL INCLUDES ANY VOC CONTAMINATED SOILS EXCAVATED FROM THIS LOCATION UNDER A VARIOUS LOCATION PLAN WITHIN THE LAST TWELVE (12) CALENDAR MONTHS. EXCAVATIONS INVOLVING QUANTITIES IN EXCESS OF 2000 CUBIC YARDS OF VOC CONTAMINATED SOIL REQUIRES THE APPLICATION SUBMITTAL FOR A SITE SPECIFIC RULE 1166 EXCAVATION PLAN.

6. THE AQMD SHALL BE IMMEDIATELY NOTIFIED OF ANY COMPLAINTS RECEIVED AS A RESULT OF ACTIVITIES CONDUCTED UNDER THIS PLAN. SUCH NOTIFICATION SHALL INCLUDE THE NATURE OF THE COMPLAINT, NUMBER OF COMPLAINANTS AND THE ACTION TAKEN BY THE PLAN HOLDER TO MITIGATE THE SOURCE OF THE COMPLAINT.

7. DURING EACH STEP OF THE PROCESS UP TO AND INCLUDING THE REMOVAL AND DISPOSAL PROCESS, ALL PRECAUTIONS AND MEASURES SHALL BE TAKEN TO MINIMIZE THE RELEASE OF VOC, ODOR AND DUST. THIS INCLUDES BUT IS NOT LIMITED TO: THE USE OF ADDITIONAL PLASTIC SHEETING ON STOCKPILES, USE OF SUPPRESSANTS ON EXPOSED SOIL SURFACES & WORK AREAS AND MAINTAINING PAVED PUBLIC STREETS FREE OF SOIL DEPOSITS.

8. FOR THE PURPOSES OF RULE 1166 AND THIS PLAN, SOIL MEASURED PURSUANT TO RULE 1166 AS VOC CONTAMINATED SOIL, IS CONSIDERED AS VOC CONTAMINATED SOIL FROM THE TIME OF MEASUREMENT ONWARD, UNTIL THE SOIL IS TREATED PURSUANT TO AN APPROVED AQMD TREATMENT PROCESS.

SECTION II – PRIOR TO EXCAVATION

9. AT LEAST 24 HOURS PRIOR TO COMMENCING EXCAVATION OR GRADING OF SOIL AT THE SITE, THE EXECUTIVE OFFICER OR DESIGNEE SHALL BE NOTIFIED OF THE EXCAVATION BY FAX USING A FORM APPROVED BY THE EXECUTIVE OFFICER WHICH IS FULLY COMPLETED AND INCLUDING, THE NAME OF THE COMPANY PERFORMING THE EXCAVATION, AND THE APPLICATION NUMBER LISTED ON THIS MITIGATION PLAN. THE NOTIFICATION SHALL BE MADE BY FAXING THE NOTIFICATION FORM AT (909) 396-3342. FAX NOTIFICATIONS WILL RECEIVE A REFERENCE NUMBER BY RETURN FAX OR CAN BE OBTAINED REFERENCING THE FAX NOTIFICATION BY PHONE TUESDAY THROUGH FRIDAY DURING BUSINESS HOURS AT 909 396-2326. THE REFERENCE NUMBER SHALL BE RETAINED AS PROOF OF COMPLIANCE WITH THIS REQUIREMENT.

REFERENCE NO:_____ NOTIFICATION DATE:_____

10. COMPLETE VERIFICATION INFORMATION IN CONDITION NO. 30 AND OBTAIN REQUIRED SIGNATURES, PRIOR TO COMMENCING EXCAVATION.

SECTION III – MONITORING

11. DURING THE EXCAVATION PROCESS, AN ORGANIC VAPOR ANALYZER (OVA) SHALL BE ON SITE AT ALL TIMES. THE OVA SHALL BE MAINTAINED IN GOOD WORKING ORDER AT ALL TIMES AND SHALL BE CALIBRATED BY THE MANUFACTURER AT LEAST ONCE EVERY THREE MONTHS. THE CALIBRATION OF THE OVA SHALL BE VERIFIED USING CERTIFIED CALIBRATION GAS AT THE BEGINNING OF EACH WORKING DAY WITH THE PROCEDURES SPECIFIED BY THE MANUFACTURER. IF A CALIBRATION GAS OTHER THAN HEXANE IS USED, EACH MEASURED READING SHALL BE CORRELATED TO AND EXPRESSED AS HEXANE, USING EQUIVALENCY FACTORS PROVIDED BY THE MANUFACTURER.

12. ALL MONITORING SHALL BE CONDUCTED AT A DISTANCE NO MORE THAN 3 INCHES ABOVE THE SOIL SURFACE USING AN OVA DESCRIBED IN CONDITION NO. 11 ABOVE. MONITORING SHALL BE CONDUCTED AT A MINIMUM FREQUENCY OF ONE READING FOR EVERY TWO CUBIC YARDS OF SOIL EXCAVATED, NOT TO EXCEED FIFTEEN MINUTES BETWEEN READINGS. ALL READINGS SHALL BE TAKEN NO LATER THAN THREE (3) MINUTES AFTER EACH LOAD OF SOIL IS EXCAVATED.

13. ALL MONITORING SHALL BE CONDUCTED BY TRAINED PERSONNEL WHO ARE PROFICIENT IN THE USE OF THE HYDROCARBON MONITOR SELECTED FOR USE AT THIS SITE.

14. WRITTEN RECORDS OF OVA MONITORING AND CALIBRATIONS REQUIRED ABOVE SHALL BE KEPT IN A FORMAT APPROVED BY THE AQMD. THE APPROVED FORMAT IS INCLUDED ON PAGE 7 OF THIS PLAN. THE CERTIFICATION ON ALL RECORDS SHALL BE SIGNED AND DATED ON THE DAY THE MEASUREMENTS ARE OBSERVED.

15. UPON DETECTION OF VOC CONTAMINATED SOIL (READINGS 50 PPM OR GREATER), THE EXECUTIVE OFFICER OR DESIGNEE SHALL BE NOTIFIED WITHIN 24 HOURS OF THE FIRST DETECTION OF VOC CONTAMINATION. THE NOTIFICATION SHALL BE MADE BY FAXING THE NOTIFICATION FORM TO (909) 396-3342 OR CALLING (909) 396-2326. A REFERENCE NUMBER WILL BE FAXED BACK OR WILL BE ISSUED WHEN THE PHONE NOTIFICATION IS RECEIVED. ALL PHONE NOTIFICATIONS SHALL BE FOLLOWED BY MAILING THE NOTIFICATION FORM TO THE DISTRICT POSTMARKED WITHIN 48 HOURS. THE REFERENCE NUMBER WILL BE RETAINED AS PROOF OF COMPLIANCE WITH THIS REQUIREMENT.

REFERENCE NO:_____NOTIFICATION DATE:_____

SECTION IV – HANDLING AND STORAGE

16. ALL VOC-CONTAMINATED SOIL BELOW 1000 PPM SHALL BE STOCKPILED, COVERED WITH PLASTIC SHEETING AND STORED SEPARATELY FROM NON-VOC-CONTAMINATED SOIL, OR IMMEDIATELY TRANSPORTED TO A TREATMENT FACILITY.

17. A STOCKPILE SHALL NOT CONTAIN MORE THAN 400 CUBIC YARDS OF SOIL.

18. IF THE OVA MEASUREMENT IS GREATER THAN 50 PPMV BUT LESS THAN 1000 PPMV

    A) THE AFFECTED WORK AREA AND LOAD OF SOIL SHALL BE SPRAYED WITH WATER AND/OR APPROVED VAPOR SUPPRESSANT.

    B) CONTAMINATED SOIL IN STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING WHICH OVERLAP A MINIMUM OF TWENTY-FOUR INCHES AND ARE SECURED SO THAT NO PORTION OF THE CONTAMINATED SOIL IS EXPOSED TO THE ATMOSPHERE. IN THE COURSE OF HANDLING THE STOCKPILE, ONLY THE WORKING FACE OF THE STOCKPILE MAY BE UNCOVERED.

19. IF THE OVA MEASUREMENT EQUALS OR IS GREATER THAN 1000 PPM, STOP EXCAVATION TO NOTIFY THE DISTRICT IMMEDIATELY OR WITHIN ONE HOUR OF DETECTION AND,

    A) THE AFFECTED SOIL AND WORKING AREA SHALL BE IMMEDIATELY SPRAYED WITH WATER OR AN APPROVED VAPOR SUPPRESSANT, AND EITHER:

    B) THE CONTAMINATED SOIL EXCAVATED SHALL BE IMMEDIATELY PLACED IN AQMD APPROVED SEALED CONTAINERS, OR,

    C) DIRECTLY LOADED IN TRUCKS, SPRAYED WITH ADDITIONAL WATER OR APPROVED VAPOR SUPRESSANT, COVERED, AND TRANSPORTED IMMEDIATELY OFF SITE AS PER CONDITION #25 OF THIS PLAN, OR,

    D) OTHER ALTERNATIVE STORAGE METHODS WITH PRIOR WRITTEN APPROVAL FROM THE AQMD.

20. DURING EXCAVATION, THE ONLY EXPOSED VOC CONTAMINATED SOIL SHALL BE RESTRICTED TO THE IMMEDIATE WORKING AREA OF THE SITE OR STOCKPILE. ALL OTHER PORTIONS OF THE STOCKPILE SHALL BE COVERED WITH PLASTIC SHEETING, WITH SEAMS, WHICH OVERLAP A MINIMUM OF TWENTY-FOUR INCHES AND ARE SECURED WITH DUCT TAPE. ANY EXPOSED VOC-CONTAMINATED SOIL SURFACES (WORK FACE) SHALL BE KEPT MOIST WITH WATER OR OTHER APPROVED SUPPRESSANTS AT ALL TIMES, AND SHALL BE RE-COVERED DURING PERIODS OF INACTIVITY LONGER THAN ONE (1) HOUR. AT THE END OF EACH WORKING DAY, ALL STOCKPILES SHALL BE COMPLETELY COVERED AND SECURELY ANCHORED TO PREVENT ANY EXPOSURE OF SOIL TO THE ATMOSPHERE.

21. ONCE COVERED WITH PLASTIC SHEETING, STOCKPILES SHALL REMAIN UNDISTURBED UNTIL REMOVED FROM SITE.

22. DAILY INSPECTIONS SHALL BE CONDUCTED OF ALL COVERED VOC-CONTAMINATED STOCKPILES TO ENSURE THE INTEGRITY OF THE PLASTIC COVER. SUCH INSPECTIONS SHALL INCLUDE A VISUAL INSPECTION OF ALL SEAMS AND PLASTIC COVER SURFACES. ANY HOLES, TEARS OR ANY OTHER POTENTIAL SOURCES OF FUGITIVE VOC EMISSIONS SHALL BE REPAIRED IMMEDIATELY. DAILY RECORDS SHALL BE MAINTAINED TO ENSURE COMPLIANCE WITH THIS CONDITION.

23. VOC CONTAMINATED SOIL SHALL NOT BE SPREAD ON-SITE OR OFF-SITE. THIS INCLUDES ANY UNNECESSARY MOVEMENT OR AGITATION OF SOIL THAT MAY CAUSE THE UNCONTROLLED EVAPORATION OF VOC'S INTO THE ATMOSPHERE, INCLUDING THE RESHAPING OR RELOCATION OF STOCKPILES.

SECTION V – SOIL REMOVAL AND DISPOSAL

24. ALL EXCAVATED VOC-CONTAMINATED SOIL SHALL BE REMOVED FROM THE SITE WITHIN THIRTY (30) DAYS OF ITS EXCAVATION.

25. ALL VOC-CONTAMINATED SOIL REMOVED FROM THE SITE SHALL COMPLY WITH THE FOLLOWING:

    A). BE TRANSPORTED TO AN APPROVED TREATMENT/DISPOSAL FACILITY. IT SHALL BE THE RESPONSIBILITY OF THE PLAN HOLDER TO ENSURE THAT THE RECEIVING TREATMENT/DISPOSAL FACILITY HAS RECEIVED APPROVAL FROM THE APPROPRIATE ENVIRONMENTAL OVERSIGHT AGENCIES TO HANDLE AND TREAT VOC CONTAMINATED SOILS.

    B). WHEN LOADING IS COMPLETED AND DURING TRANSPORTATION, NO EXCAVATED MATERIAL SHALL EXTEND ABOVE THE SIDES OR REAR OF THE TRUCK OR TRAILER.

    C). PRIOR TO COVERING/TARPING, LOADED CONTAMINATED SOIL SHALL BE WETTED BY SPRAYING WITH MIST INHIBITORS.

    D). THE TRUCK OR TRAILER SHALL BE COMPLETELY COVERED/TARPED PRIOR TO LEAVING THE SITE TO PREVENT PARICULATE EMISSIONS TO THE ATMOSPHERE.

    E). THE EXTERIOR OF THE TRUCKS (INCLUDING THE TIRES) SHALL BE CLEANED OFF PRIOR TO THR TRUCKS LEAVING THE EXCAVATION SITE.

SECTION VI - RECORDS AND REPORTING

26. A WRITTEN REPORT SHALL BE PROVIDED TO THE AQMD WITHIN 30 DAYS OF INITIAL DETECTION OF CONTAMINATED SOIL, WHICH INCLUDES THE FOLLOWING INFORMATION.

    A) THE STATUS OF THE EXCAVATION PIT, AND ANY VOC CONTAMINATED SOIL REMAINING ON SITE.

    C) A BRIEF SUMMARY INDICATING IF ADDITIONAL CLEAN UP EFFORTS ARE NECESSARY, THE ADDITIONAL QUANTITY OF VOC CONTAMINATED SOILS TO BE EXCAVATED AND THE PROJECTED SCHEDULE OF THE EXCAVATION.

27. RECORDS OF DISPOSAL SHALL BE MAINTAINED FOR ALL VOC-CONTAMINATED SOIL REMOVED FROM THIS SITE. SUCH RECORDS SHALL BE CLEARLY LABELED "SCAQMD RULE 1166-VOC CONTAMINATED SOIL" AND SHALL INCLUDE THE IDENTIFICATION AND THE LOCATION OF, 1) THE GENERATOR, 2) TRANSPORTER AND 3) RECEIVING FACILITY. IN ADDITION, SUCH RECORDS SHALL BE SIGNED AND DATED BY EACH OF THE ABOVE PARTIES INDICATING RECEIPT OR RELINQUISHMENT OF THE VOC-CONTAMINATED SOIL AT THE TIME CUSTODY IS TRANSFERRED.

28. RECORDS OF DISPOSAL OF VOC-CONTAMINATED SOIL SHALL BE MAINTAINED ON SITE DURING THE EXCAVATION AND LATER MAINTAINED FOR A PERIOD OF TWO (2) YEARS. THE RECORDS SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

29. WITHIN THIRTY (30) DAYS AFTER THE EXCAVATION AT THE SITE IS COMPLETED, THE WRITTEN RECORDS UNDER CONDITIONS NO. 14, 22, AND 27 SHALL BE SUBMITTED TO THE AQMD AT THE FOLLOWING ADDRESS.

    SOUTH COAST AIR QUALITY MGMT DISTRICT
    ENGINEERING & COMPLIANCE DIVISION
    TOXICS & WASTE MANAGEMENT UNIT
    (RULE 1166 COMPLIANCE)
    21865 E. COPLEY DR.
    DIAMOND BAR, CA. 91765-4182

SECTION VII – VERIFICATION AND SIGNATURE

30. THIS PLAN IS NOT VALID UNTIL ALL PARTIES HAVE REVIEWED AND SIGNED THE VERIFICATION STATEMENT BELOW.

Site Name		Type of Business	
Address	City		Zip
Responsible Party (Owner/Operator)		Phone	
Address	City		Zip

I CERTIFY THAT I HAVE REVIEWED AND UNDERSTAND THE CONDITIONS CONTAINED WITHIN THIS PLAN. IN SIGNING BELOW, I ACKNOWLEDGE THAT UNDER THE PROVISIONS OF RULE 1166, I CAN BE HELD RESPONSIBLE FOR THE REQUIREMENTS SET FORTH IN THIS PLAN.

Responsible Party	Responsible Party Signature	Date Signed
General Contractor	General Contractor Signature	Date Signed
Excavation Contractor	Excavation Contractor Signature	Date Signed
Environmental Consultant	Environmental Consultant Signature	Date Signed

DEFINITIONS

Excavation	Is the process of digging out and removing materials including any material necessary to that process such as the digging out and removal of asphalt or concrete necessary to expose, dig out and remove known VOC contaminated soil.
Organic Vapor Analyzer (OVA)	For the purposes of this plan, an OVA is an hydrocarbon monitor utilizing flame ionization, photo ionization or other analytical methods complying with 40 CFR PART 60 APPENDIX A, EPA METHOD 21 SECTION 3, "DETERMINATION OF VOLATILE ORGANIC COMPOUND LEAKS, MONITORING INSTRUMENT SPECIFICATIONS. The monitor shall be capable of being calibrated using hexane at a range of 0 parts per million by volume (PPMV) to 50 PPMV, and at a detection range of at least 30 PPMV to 1100 PPMV
Responsible Party	For the purposes of this plan, Responsible Party is the party financially responsible for initiating the excavation. This may include the property owner or the tank operator. This excludes contractors working for the property owner or operator, and any other party that lacks the direct authority to immediately treat all VOC contaminated soils generated at the excavation site.
VOC Contaminated Soil	Is soil that registers a concentration of 50 PPM or greater of volatile organic compounds as measured before suppression materials have been applied and at a distance of no more than three inches from the surface of the excavated soil with an organic vapor analyzer calibrated with hexane.
Volatile Organic Compound (VOC)	Is any volatile compound of carbon, excluding methane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate, and exempt compounds. Exempt compounds areas defined in Rule 102 – Definitions of Terms.

Once issued, this plan is subject to further review by the AQMD and may be revoked if excavation activities are found in violation of plan conditions or AQMD's Rules and Regulations. Failure to comply with one or more of the conditions contained within this plan constitutes a violation of Rules 221 and 1166.

Other governmental agencies may require approval before any excavation begins. It shall be the responsibility of the applicant to obtain that approval. The South Coast Air Quality Management District shall not be responsible or liable for any losses because of measures required or taken pursuant to the requirements of this approved Rule 1166 Contaminated Soil Mitigation Plan.

Questions regarding this plan should be directed to Ranjit Vishwanath at (909) 396-2682.

Rv11/17/04

Rule 1166 Soil Monitoring Records

Company Name Kleinfelder, Inc. 1370 Valley Vista Dr., Suite 150 Diamond Bar, CA 91765	Facility/Site Information
Reference No(s).	

Plan #: 446943 I.D.#: 135228

Monitor Information	Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand:	Gas:	Name:	Total Cubic Yds (This page)	
Model:	Date	Company:	Total Cubic Yds (To date)	
Type	By	Phone:	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading	

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE:_____ DATE:_____

South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, CA 91765
www.aqmd.gov

IMPORTANT NOTICE 2005

TO COMPANIES AND CONTRACTORS THAT:

- *Degas storage tanks known/suspected to contain Volatile Organic Compound (VOC)*
- *Remove tanks or transfer piping known/suspected to contain (VOC)*
- *Handle, excavate, grade, monitor or treat soil known/suspected to contain (VOC)*
- *Operate portable soil/vapor extraction units at a location for 5 days or more*

Effective July 1, 2005, SCAQMD Regulation III – Fee amendments for the Fiscal Years 2005-2006 increased notifications fees 6 % across the board. All required notifications for any Soil Vapor Extraction Project (Rule 203), Rule 1149 tank degassing and Rule 1166 require a notification fee of $39.11 per Rule 301*(ab)*. The fee is per notification and an additional service charge fee may apply. Service charge for any returned check is an additional $31.97. See Rule 301*(w)*

Initial notifications must be faxed to 909-396-3342 and the original notification and fee must be postmarked within 48 hours of the fax time.

AQMD recommends mailing your notification to save time, money, reduce traffic, conserve energy use and avoid air pollution. *For your convenience please mail all notifications and fees to:*

SCAQMD R1149/1166 Notifications
FILE # 55641
Los Angeles, CA 90074-5641

Notifications should be completed, signed, mailed and the fee paid by the contractor performing the project. Notifications submitted without a fee are deemed incomplete and they will be returned to sender and referred to the Air Toxics Compliance Unit.

Rules 1149 and 1166 notification forms, instructions, and information can be obtained from the SCAQMD web site at http://www.aqmd.gov

In our home page click on **Business, Compliance Program, Recordkeeping and Reporting Forms.** For any questions call Rule 1149/1166 Hot Line at (909) 396-2326.

NOTE: Rule 304(e) requires an owner operator to pay for analysis of AQMD field samples showing non compliance.

INSTRUCTIONS FOR SCAQMD RULES 203, 1149 and 1166 NOTIFICATION FORM

WHERE TO FAX AND MAIL YOUR NOTIFICATION AND FEE

Rule 301 (ab) requires any person submitting a notification per Rule 1149, Rule 1166 or for Rule 203 - Soil Vapor Extraction projects to pay a notification fee. Any questions call the Hotline at 909-396-2326.

FAX all notifications to (909) 396-3342 *and within 48 hours MAIL* the form and fee to:

SCAQMD - R1149/1166Notifications, File # 55641, Los Angeles, CA 90074-5641

NOTIFICATIONS MUST CONTAIN THE FOLLOWING INFORMATION

Faxback # - Provide a fax # at the top of the Notification Form if you want a Reference # faxed back to you.
Notification Type – Circle the type of Notification. Original is for new or initial Notifications. Revisions are for updating information on notifications in which the project End Date has not expired. Provide the most recent prior Reference # issued for Revisions and Cancellations. The fee applies to *each* required notification except for Rules 203, 1149 and 1166 end date and shift/time revisions.
Project Type - Circle the type of work you are submitting a notification for. A separate notification and fee is required for each type of work selected.
[1]Mitigation Plan/Permit[2] - Each Project Type requires a valid Mitigation Plan *or* Permit # (identified by either a [1]or [2]). Indicate who the Mitigation Plan or Permit is issued to and the Plan or Permit #.
Site Contractor Information - Provide the required information for the actual contractor *doing the work*. The AQMD ID #, also know as Company or Facility ID #, can be found on the contractor's AQMD permits, Mitigation Plans or invoices.
Site Information - Provide the site name and complete address. Include the street number and name, city, zip code, and nearest cross street. Give more detailed directions if you think the site is difficult to locate.
Project Dates - Provide the project Start and End Dates. Any changes will require a Revision notification.
Tank Information – For tank Degassing or Excavating, specify the tank capacity and the VOC material stored and if the tank is underground or above ground. For degassing include the project start and end times.
Information Certification - The contractor doing the work, or an authorized representative, must sign and date the notification to confirm that the information provided is complete and accurate.

TANK DEGASSING NOTIFICATION (R1149(c)(4)) – Notify 24 hours prior to commencing when...

Notifying of intent to *Degas* or clean known or suspected VOC storage equipment.

SOIL/TANK EXCAVATION NOTIFICATION (R1166(c)(2)) Notify 24 hours prior to commencing when...

Notifying of intent to *Excavate* known or suspected VOC storage and/or transfer equipment (includes diesel and waste oil tanks), or *handling* known or suspected VOC contaminated soil.

NOTE: Soil excavation > 5,000 cubic yards may require a pre-approved AQMD Rule 403 Fugitive Dust Plan.

MONITORING NOTIFICATION (R1149(c)(3)(B)) Notify within either 1 hour or 24 hours when...

Notifying of *finding/detecting* VOC contaminated soil greater than 50 ppm or 1000 ppm

- Notify within 1 hour of detecting VOC greater than 1000 ppm
- Notify within 24 hours of detecting VOC greater than 50 ppm

MITIGATION/TREATING NOTIFICATION (R1166(c)(3)) Notify per Permit condition requirements when...

Notifying of on-site *mitigation* or *treating* of VOC contaminated soil (see your Permit condition requirements).

SOIL VAPOR EXTRACTION NOTIFICATION (R203(b)) Notify up to 5 days after operating at a new site

Notifying of *start-up* or *testing* of operation of portable Soil Vapor Extraction equipment lasting 5 days or more. Provide the distance in feet to the nearest sensitive receptor *if* the site is located less than ¼ mile from any Long-Term Health Care Facility, Rehabilitation Center, Convalescent Center, Retirement Home, Residence, School, Playground, Child Care Center or Athletic Facility. See your permit condition requirements.

EMERGENCY NOTIFICATION (R1149(c)(4)(E), R1166(c)(1)(B)) Notification to start work when...

Notifying of any incident declared as an emergency by an authorized agency that requires tank *removal/repairs* or *excavating/handling* of VOC contaminated soil

- *Call* 1-800-CUT SMOG *prior* to excavation or *fax* the Emergency Notification to 909-396-3342 *and*
- *Mail* the Notification within 48 hours *after* the excavation (include the Agency Order or Declaration)

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
Rules 203, 1149 or R1166 NOTIFICATION FORM

Use this form to notify of known or suspect VOC storage tank Degassing and Excavation; Excavation, Handling and/or Monitoring of known or suspect VOC contaminated soil; Mitigation/Treating of VOC contaminated soil; and VOC Vapor Extraction. Any questions see the instructions on the back of this form or call the Hotline at (909) 396-2326. Fax this form to 909-396-3342 and within 48 hours mail the original and fee to: SCAQMD – R203/1149/1166 Notifications, File # 55641, Los Angeles, CA 90074-5641

This form will be faxed back to you with a REFERENCE number if you provide a FAXBACK # here:

AQMD USE ONLY	RECEIVED	BY	POSTMARK	REFERENCE #	
COMPLETED BY		Company		Phone #	
Date	Check #	Amount $		Project #	
NOTIFICATION TYPE	Original (Initial)	Revision (prior reference #)		Cancellation (prior reference #)	
PROJECT TYPE (circle one only)	[1]R1166 Soil / Tank Excavation	[2]R1149 Tank Degassing ***	[2]Soil Vapor Extraction**	[2]VOC Contaminated Soil Mitigation / Treating	[1]VOC Contaminated Soil Monitoring*↓

[1]Plan information is required for these projects, [2]Permit information is required for these projects

*For reporting VOC > 50 or 1000 ppm only

*Date & time of VOC exceedance

*Highest VOC reading in ppm

Mitigation Plan issued to:		Plan #	
Permit issued to:		Permit #	
PROJECT DATES & TIMES***	START	END	WORK SHIFT (day, swing, night)
SITE CONTRACTOR INFORMATION	AQMD ID #	CSLB License #	Phone #
Name		Address	
City	Zip	Site supv name & phone #	
SITE INFORMATION	Site Name		Site AQMD ID #
Site Address		Cross Street	
Site City	Zip	Site contact name & phone #	

TANK INFORMATION	# OF TANKS	EACH	CAPACITY (gal)	MATERIAL STORED IN TANK	ABOVE GROUND? (Y/N)
		@			
		@			
Example	*3 tanks*	@	*10,000*	*Gasoline*	*no*

EMERGENCY NOTIFICATIONS: Fax a copy of the Agency Order and give the reason, date, time, name and phone # of the person declaring the emergency.

REASON:		
Date & time	Name/Title	Phone #

INFORMATION CERTIFICATION I certify that the above information is complete and accurate

Company Name	Print Name	Signature	Date

COMMENTS

Distance to nearest sensitive receptor in feet: *** Include degassing project start & end times.

APPENDIX B

SAMPLE HEALTH AND SAFETY PLAN

SAMPLE HEALTH AND SAFETY PLAN

<Project Name>

<Company Name> PERSONNEL ONLY

Project No.: < ----- > **Date:** < ----- >

Project: **Proposed Sunrise Assisted Living Facility for Seniors – Site Cleanup**
Client: **Sunrise Development, Inc.**
1837 Pecan Circle
Corona, CA 92882

Contact: < ----- > **Tel.** < ----- >

Job Location: Proposed Sunrise Assisted Living Facility
25535 and 25551-25589 Hawthorne Boulevard
Torrance, California

Work objectives: Excavate, transport, treat offsite, and dispose hydrocarbon and VOC impacted soil, backfill or secure excavations.

Key individuals:
Primary Health and Safety: < ----- >
Site Health and Safety: < ----- >

Reviewed by: < ----- > **Approved by:** < ----- >

Chemical Hazards: (choose any or all which apply)
General:
- ☐ Possible organic vapors in soil and/or groundwater.
- ☐ Possible methane in soil and/or groundwater. LEL = 5.0% (50,000 ppm)
- ☐ Other:_

Specific: (List, if known. Otherwise, state unknown) Hydrocarbons and VOCs

Suspect Chemicals include: Total petroleum hydrocarbons (TPH), and volatile organic compounds (VOCs).

Substance/CAS No.	OSHA PEL	Significant Exposure Routes	HEALTH EFFECTS
Petroleum Hydrocarbons			
Diesel	None	Inhalation, Absorption, Ingestion, Skin/Eye Contact	Carcinogen, Eyes, Skin, Respiratory System, Central Nervous System, Liver, Kidneys,
Gasoline/8006-61-9	None	Inhalation, Absorption, Ingestion, Skin/Eye Contact	Carcinogen (Liver and Kidney), Eyes, Skin, Respiratory System, Central Nervous System, Liver, Kidneys,
VOCs			
Benzene/71-43-2	1 ppm	Inh, Abs, Ing, Skin/Eye	Carcinogen
Ethylbenzene/100-41-4	100 ppm	Inh, Ing, Skin/Eye	Res. Syst., Eyes, Kidney
Toluene/108-88-3	200 ppm	Inh, Abs, Ing, Skin/Eye	Liver, Kidney, Skin
Xylene/133-02-07	100 ppm	Inh, Abs, Ing, Skin/Eye	Liver, Kidney, Eyes, Blood
1,1-Dichloroethane/75-34-3	100 ppm	Inhalation, Ingestion, Skin/Eye Contact	Skin, Liver, Kidneys, Lungs, Central Nervous System
1,2-Dichloroethene/540-59-0	200 ppm	Inhalation, Ingestion, Skin/Eye Contact	Eyes, Respiratory System, Central Nervous System
Tetrachloroethene/127-18-4	100 ppm	Inhalation, Absorption, Ingestion, Skin/Eye Contact	Carcinogen (Liver), Eyes, Skin, Respiratory System, Kidneys, Central Nervous System
Trichloroethene/79-01-6	100 ppm	Inhalation, Absorption, Ingestion, Skin/Eye Contact	Carcinogen (Liver, Kidneys), Eyes, Skin, Respiratory System, Heart, Central Nervous System
Vinyl chloride/75-01-4	1 ppm	Inhalation, Skin/Eye Contact	Carcinogen (Liver), Central Nervous System, Blood, Respiratory System, Lymphatic System
SVOCs			
Naphthalene/91-20-3	10 ppm (50 mg/m^3)	Inhalation, Absorption, Ingestion, Skin/Eye Contact	Eyes, Skin, Blood, Liver, Kidneys, Central Nervous System
Pyrene/129-00-0	0.2 mg/m^3	Ingestion, Skin/Eye Contact	Eyes, Skin, Liver, Bladder, Kidneys

Physical Hazards: **(choose any or all which apply)**

- ☐ Heavy equipment, such as rotohammer (being struck by or against, catching clothing in the same manner)
- ☐ Slips, trips, falls
- ☐ Noise (from diesel or gasoline powered equipment)
- ☐ Splashes into eyes or face
- ☐ Flying debris
- ☐ Broken or damaged cable wires
- ☐ Overhead power lines
- ☐ Underground utility lines
- ☐ Heat stress
- ☐ Keep electrical cords away from water
- ☐ Other (specify)

Personal Protective Equipment: (choose any or all which apply)

- ☐ Hard hat
- ☐ Steel toed shoes or boots
- ☐ Safety glasses
- ☐ Face shield (required where splash hazard exists)
- ☐ Ear plugs or muffs in high noise areas
- ☐ Gloves (specify type, leather while using rotohammer, others during sampling of vapor) Latex Gloves while handling samples or soil.
- ☐ Half mask or full face mask air purifying respirator required if organic vapor levels in breathing zone exceed 5ppm (VOC cartridge or filter type to be used)
- ☐ Tyvek suit
- ☐ Other (specify)

Monitoring Equipment To Be Used: (choose any or all which apply)

- ☐ HNu photoionization detector (specify lamp) (If levels exceed 5 ppm, use respirator as indicated under personal protective equipment.)
- ☐ Organic vapor analyzer. (If levels exceed 5 ppm, use respirator as indicated under personal protective equipment.)
- ☐ Photo Ionization Detector. (If levels exceed 5 ppm, use respirator as indicated under personal protective equipment.)
- ☐ Combustible gas meter. (If levels exceed 20% of lower explosive limit, excavation operations will temporarily be shut down.)
- ☐ Personal monitoring equipment (specify type)
- ☐ Other (specify)

Site Control Measures: (choose any or all which apply)

- ☐ Fence
- ☐ Caution tape
- ☐ Other (specify)

Decontamination Procedures:

Equipment will be cleaned using high-pressure hot water.
Any contaminated clothing will be removed and placed in plastic bags for later disposal.
Hands must be thoroughly washed before leaving site.

Emergency/Contingency Plans:

Stop all work in case of accident or injury, and stop work at excavation location if methane monitoring result for exposed soil surface exceeds 10 percent of LEL. Know locations of emergency power and shut offs, eye wash/shower, first aid kit, telephone, and fire extinguisher.

Hospital/Clinic: (attach map) **Phone:** < ----- >

Hospital Address: < ----- >
< ----- >
< ----- >

Paramedic: 911 **Fire Dept.:** 911 **Police Dept.:** 911

Emergency procedures:

Render first aid to any injured party.
Wash off contamination with copious amounts of water. Use eyewash in case of splash in eyes.
Seek medical attention if injury exceeds first aid limits.

Pre-job Safety Meeting:

Signature	Name (printed)	Date

Personal Air Monitoring: (if applicable)

Type_____
Name_____
Date_____
Time on_____Time off_____
Chemicals analyzed for_____
_____
Results_____
PEL_____

Type_____
Name_____
Date_____
Time on_____Time off_____
Chemicals analyzed for_____
_____
Results_____
PEL_____

APPENDIX B

CITY OF TORRANCE LETTER DATED DECEMBER 21, 2005

CITY OF
TORRANCE

FIRE DEPARTMENT
FIRE PREVENTION DIVISION

RECEIVED
DEC 22 2005

December 21, 2005

Ms. Carolyn 'Lyn' P. Bloomfield, Ph.D.
Kleinfelder, Incorporated
620 West Sixteenth Street, Suite F
Long Beach, CA 90813

SUBJECT: **Site Remediation Workplan for Former Shell Station, 25535 Hawthorne Boulevard, Torrance, CA 90505 (Kleinfelder Job No. 46817)**

Dear Ms. Bloomfield:

The Torrance Fire Department (TFD) has reviewed the site assessment workplan for the above subject site. There are no objections to the workplan provided the following conditions are met:

1. Kleinfelder, Inc., shall obtain all necessary permits from the appropriate state/local governmental agencies as required by law prior to commencing the subsurface soil investigation and remedial action workplan. All contractors shall comply with the requirements as listed in the Contractor Check List (see attachment).

2. All work must be performed by or under the direction of a registered geologist, certified engineering geologist, or registered civil engineer. A statement is required in the report that the registered professional in direct responsible charge actually supervised or personally conducted all the work associated with the project. All technical submittals must contain a wet ink signature and seal by one of the registered professionals.

3. Technical reports shall be submitted using Local Oversight Program Public works format under penalty of perjury (see "Guidelines for Report Submittals" published by the Los Angeles County Department of Public Works). All technical reports for submittal shall be signed and stamped by either a professional engineer, a registered geologist or certified engineering geologist. In addition, ***all reports must include a cross sectional plot showing depth (y-axis) versus contaminant concentration, soil lithology, and estimated plume configuration (x-axis). Also, you must submit a scaled map showing the locations of any production wells and surface water bodies within one-mile radius of the subject. The production well information must include information on well owner, identification number, depth to groundwater and status of the well.***

4. A specific health and safety plan for the field work at the subject site must be present on site.

5. The TFD shall be notified 72 hours prior to start of work.

6. Laboratory data must be reported using the L.A. Regional Water Quality Control Board Laboratory Report forms or equivalent. All QA/QC controls must be reported. The laboratory/mobile laboratory shall show it is state certified.

7. Soil Samples: All soil samples shall be obtained using EPA Method 5035. Soil samples shall be analyzed for the following chemical constituents: for total petroleum hydrocarbons as gasoline with EPA Method 8015M (gasoline); VOC's using EPA Method 8260B. The testing for oxygenates shall include the following: MTBE, TBA, DIPE, ETBE, and TAME All analytical data must be reported by a California certified laboratory. In addition, soil samples in waste oil tank areas shall analyzed for heavy metals. All analytical data must be reported by a California certified laboratory.

8. The TFD, in reviewing this site assessment workplan, makes no endorsement of such method (implied or otherwise) nor accepts any liability in its use.

9. Clean up goal: The TFD recommends that all contamination shall be remediated to natural pollutant background levels unless technologically or economically infeasible.

10. Implementation of remedial action plan to begin within 60 days from date of issuance of approval letter.

Finally, to cover the costs of remedial oversight of petroleum contaminated sites (Fee Resolution 98-136), all such sites will be billed at a rate of $87.00 per hour.

If you have any questions, please feel free to contact me at (310) 618-2973.

TORRANCE FIRE DEPARTMENT
Richard V. Bongard, Fire Chief

Ken C. Carter, Battalion Chief
Fire Marshal

Kenneth Lew
Hazardous Materials Specialist

cc:

Mr. Roger Green, Sunrise Development, Inc., 25132 Via Terracina, Laguna Niguel, CA 92677

Mr. Tom Fitzpatrick, 4111 Paseo De Las Tortugas, Torrance, CA 90505

enclosure: 1. contractor checklist

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October 15, 2007
DELTA Project No. PA255351X
SAP No. 167119

Mr. David Bjostad
Los Angeles Regional Water Quality Control Board
320 W. 4th Street, Suite 200
Los Angeles, California 90013

Re: Large Auger Site Assessment Report and No Further Action Request
Former Shell Service Station
25535 Hawthorne Boulevard
Torrance, California 90505

DELTA

Dear Mr. Bjostad:

Delta Consultants (DELTA), on behalf of Equilon Enterprises LLC dba Shell Oil Products US (SHELL), submits this *Large Auger Site Assessment Report and No Further Action Request* for the above-referenced site (Figure 1). The purpose of this assessment was to fulfill the original intention of the City of Torrance approved Kleinfelder, Inc. (Kleinfelder) *Soil Remediation Workplan* by removing all detectable contaminants of concern (COCs) identified in the approved workplan for the designated remedial area in order to obtain a final case closure ruling from the Torrance Fire Department (TFD) with a "no further action" directive. The original *Soil Remediation Workplan* was approved by TFD in an agency letter dated December 21, 2005 (Appendix A).

To accomplish the mandate stated above, an excavation operation was conducted using a large 5-foot diameter auger. Forty six separate auger holes were drilled to depths ranging from approximately 30 feet below ground surface (bgs) to 74 feet bgs. The ultimate depth of each auger was determined by the depth at which COCs were no longer detectable or drilling refusal. The locations are predominantly adjacent and tangential to one another and were chosen based on where detections of the COCs had been previously identified at or deeper than 20' bgs (Figure 2) as forty-four of the auger locations had previously had the top 20' excavated.

This report has been prepared to comply with the California Code of Regulations, Title 23, Division 3, Chapter 16, Article 11. All work was performed under the supervision of a California-registered professional engineer.

911 South Primrose Avenue Suite K Monrovia, California 91016 USA
Phone 626.256.6662 / 800.477.7411 Fax 626.256.6263 www.deltaenv.com

SITE BACKGROUND

SITE DESCRIPTION

The subject site is a former Shell service station located on the southwest corner of the intersection of Hawthorne Boulevard and Rolling Hills Road in Torrance, California (Figure 2). The former service station is currently a fenced vacant lot and will be undergoing redevelopment activities by the new property owner, Sunrise Development, Inc. All underground storage tanks (USTs), dispenser islands, and product piping were removed in 1988. Parcel 4 of the former Palos Verdes Landfill (PVLF) borders the site to the south, east, and west. The site is located west of an undeveloped hill and Ernie Howlett Park, part of the PVLF is situated on top of the hill to the south.

PREVIOUS SITE INVESTIGATIONS

In August 1988, all USTs and soil surrounding the tanks were removed from the site. Additional vadose assessment was conducted through 1994 with TFD. On September 5, 1995, TFD referred the site to the California Regional Water Quality Control Board, Los Angeles Region (LARWQCB). On September 26, 1996, the LARWQCB confirmed the completion of site investigation and remedial action at the site and granted a letter indicating that No Further Action was required.

In September 2004, Kleinfelder, on behalf of Sunrise Development, Inc., (Sunrise) performed additional site assessment activities at the subject site. Kleinfelder's findings were summarized in an October 15, 2004, report entitled Limited Phase II Environmental Site Assessment, Preliminary Results and Recommendations, which was subsequently forwarded to the TFD (Miller Brooks Environmental, Inc. [MBE 2006]). Soil boring locations (KA1 through KA4) are displayed on Figure 3. No groundwater was encountered and the concentrations were substantially the same as those reported by Shell following the cessation of the service station operation.

Sunrise contracted The Reynolds Group (TRG) to conduct additional subsurface soil assessment activities to further define the lateral and vertical extent of petroleum hydrocarbon-affected soil beneath the site. A work plan was submitted to the TFD on February 16, 2005, and was approved on February 24, 2005. Miller Brooks reviewed this work plan with SHELL and determined the scope of work to be acceptable. Miller Brooks coordinated with TRG to be present at the site to collect duplicate samples (B5 through B9). Field activities were conducted on March 3 and 4, 2005, and the TRG's findings were summarized in their March 24, 2005, report entitled Subsurface Soils Assessment (MBE, 2006) (see Appendix B). Soil boring locations are displayed on Figure 3.

On May 24, 2005, the TFD directed Shell to submit a corrective action plan for the petroleum hydrocarbons at the site. On June 13, 2005, Miller Brooks submitted a work plan on behalf of Shell that outlined a specific scope of work intended to meet the requirements of the TFD, including: 1) additional site assessment activities, 2) human health risk analysis, and 3) remedial soil excavation, if needed (based upon the health risk analysis). Following review of this work plan, the TFD submitted comments in correspondence dated June 28, 2005. On July 28, 2005, Miller Brooks submitted a response letter intended to address each of the TFD's comments and concluded that the site had already met the requirements stipulated in the June 28 letter. It was then concluded that Miller Brooks and Shell believed that no further action was required at the site, as

previously indicated by the LARWQCB, and the June 13, 2005, work plan was rescinded in the July 28, 2005, correspondence (MBE, 2006).

As a result of the July 28, 2005, correspondence, the TFD requested a stakeholder meeting. Further to the issues being discussed during the stakeholder meeting and subsequent telephone conversations with Inspector Kenneth Lew of the TFD, a Remedial Action Plan (RAP) and Site-Specific Health Risk Assessment dated October 7, 2005, was submitted to the TFD on October 10, 2005 (MBE, 2006).

On December 12, 2005, Kleinfelder submitted a Soil Remediation Work Plan. This work plan proposed the excavation and treatment of soil in an area 50 feet by 75 feet to a depth of 20 feet bgs. In a letter dated December 21, 2005, TFD approved the Soil Remediation Work Plan submitted by Kleinfelder with specified conditions (Appendix A). No response was received to the previously submitted Shell RAP, and in good faith and in order to expedite remedial activities at the site, SHELL adopted the approved Kleinfelder work plan.

On October 5 and 6, 2006, DELTA drilled eight soil borings (SB-1 through SB-8) in order to define the vertical and lateral extent of petroleum hydrocarbons and fuel-oxygenates in and near the soil excavation area originally proposed by Kleinfelder in the Soil Remediation Work Plan dated December 12, 2005 (see Figure 4A). Seven of the borings were completed to a depth of 25 feet (B-5 was not completed due to an obstruction). Total petroleum hydrocarbons as gasoline (TPH-g) and benzene, toluene, ethylbenze and total xylenes (BTEX compounds) were detected in three of the borings. The maximum concentration of TPH-g was reported in the 20 feet bgs sample from Boring SB-4 with a detection of 3,500 mg/kg. The maximum concentrations of BTEX were reported in the 15 feet bgs sample from SB-4 with detections of 4.7 mg/kg benzene, 2.9 mg/kg toluene, 57 mg/kg ethylbenzene, and 160 mg/kg xylenes (DELTA, 2007) (see Appendix C).

Excavation of contaminated soil was conducted by DELTA between November 6 and November 20, 2006. The final excavation extent was 50 feet by 75 feet to a depth of 20 feet (see Figure 4A). Approximately 2,830 cubic yards (or 4,900 tons) of soil was removed, and a total of thirty confirmation samples were collected (see Figure 4A and Appendix C). The maximum residual contamination was reported in confirmation sample GR-4Bd20, collected at 20 feet bgs, with concentrations of 3,100 mg/kg TPH-g, 34 mg/kg toluene, 31 mg/kg ethylbenzene, and 196 mg/kg xylenes (benzene was not detected). The maximum concentration of benzene was 0.070 mg/kg reported in confirmation sample GR-4Dd20. Soil was imported and used to backfill the excavation to grade and compacted was analyzed by Alpha Scientific Corporation, a certified analytical laboratory.

On March 1 and 2, 2007, DELTA drilled seven geoprobe locations (GP-1 through GP-7) in order to define the vertical and lateral extent of petroleum hydrocarbons and fuel-oxygenates in the soil excavation area originally proposed by Kleinfelder in the Soil Remediation Work Plan dated December 12, 2005. TPH-g was detected in all seven geoprobes. The maximum concentration of TPH-g was reported in the 31 feet bgs sample collected from Geoprobe GP-1 with a detection of 160 mg/kg. The maximum concentration of benzene was reported in the 22 feet bgs sample collected from GP-2 with a detection of 0.028 mg/kg. The maximum concentration of toluene, ethylbenzene, xylenes, 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene were reported in the 31 feet bgs sample collected from Geoprobe GP-1 with detections of 1.2 mg/kg, 2.8 mg/kg, 9.1 mg/kg, 8.8 mg/kg, and 2.1 mg/kg, respectively (see Figure 4A and Appendix C)(DELTA 2007).

On June 22, 2007, DELTA drilled an additional six geoprobe locations (GP-8 through GP-13) to further

define the vertical and lateral extent of petroleum hydrocarbons and fuel-oxygenates in the soil excavation area originally proposed by Kleinfelder in the Soil Remediation Work Plan dated December 12, 2005. TPH-g was detected in five of the geoprobes, with a maximum concentration of 94 mg/kg in GP-11. The maximum concentrations of benzene (0.048 mg/kg) and toluene (0.012 mg/kg) were detected in samples collected from GP-8. The maximum concentrations of ethylbenzene (3.9 mg/kg) and total xylenes (10.8 mg/kg) were detected in samples collected from GP-11. Di-isopropyl Ether (DIPE) was detected in one soil sample collected from GP-10 (0.0059 mg/kg). Methyl tert-butyl ether (MTBE), tert-butyl alcohol (TBA), ethyl tert-butyl ether (ETBE) and tert-amyl methyl ether (TAME) were not detected in any of the geoprobe samples collected.

Geoprobe locations are displayed on Figure 4B and historical soil analytical results are presented in Appendix C.

WATER WELL SURVEY

Sensitive receptor information provided by TRG, following their review of data from the Los Angeles County Department of Public Works – Hydraulic Records Division, indicated that the two production wells are located approximately 0.25 mile north-northwest and 1.5 miles northwest of the site. The well noted as 1.5 miles northwest of the site was identified as Well # 749-A, is inactive, and is located near the intersection of 242nd Street and Newton Street with a measured groundwater depth of 105.7 feet bgs (October 31, 1996). No additional information was provided regarding the other production well (MBE, 2006; and TRG, 2005).

REGIONAL GEOLOGY AND HYDROGEOLOGY

The site is underlain by Quaternary alluvial, debris flow, and landslide deposit sediments consisting of clay and clayey to sandy silt with lenses of sand and gravel to a depth of 50 feet or greater. The alluvium is underlain by Tertiary sedimentary rocks of the Miocene Monterey Formation consisting of diatomite and diatomaceous siltstone and mudstone. Unconsolidated marine sediments of the Lower Pleistocene San Pedro Formation and Upper Pleistocene Lakewood Formation are exposed approximately 300 to 400 feet east and north of the site, respectively. The site is located within the northwest-trending Palos Verdes Fault zone located along the margin of the Palos Verdes Hills. The Palos Verdes Hills are an uplifted fault block comprised of a basement complex (Catalina Schist) and the aforementioned marine deposits that have been folded into a northwest-trending anticline (MBE, March 30, 2006, Poland et al., 1959, and Department of Water Resources [DWR], 1961).

The site is located along the southern extent of the West Coast Groundwater Basin and within the uplifted portion of low yielding Tertiary sedimentary rocks of the Palos Verdes Hills. The Palos Verdes Hills form a northwest-trending groundwater divide with groundwater on the northeast side flowing into the West Coast Groundwater Basin and groundwater on the southwest side draining to the Pacific Ocean. Due to the presence of a shallow basement complex and lower yielding sedimentary deposits, this portion of the basin has been generally designated as a non-production area.

SITE SPECIFIC GEOLOGY AND HYDROGEOLOGY

Results of previous site investigation activities indicated that sediments beneath the site consist of interbedded clayey gravel, poorly-graded sand, silty sand, sandy silt, and silt to a depth of approximately 25 feet. Previous

investigations have not found groundwater to the depths investigated (50 feet bgs). However, based on topography and the geologic setting, the groundwater flow direction is estimated to be to the north or northeast where it occurs (MBE, 2006; and ESE, 1994). This flow direction is consistent with that reported by the California Department of Toxic Substances Control (DTSC) in its evaluation of the Palos Verdes Landfill adjacent to the site (DTSC, 2007).

ADDITIONAL AUGER EXCAVATION

BACKGROUND

The additional auger-excavation was conducted with a large 5-foot diameter auger drill at 46 separate auger locations to a total depth ranging from 30' bgs to approximately 74' bgs (see Figure 2). The ultimate depth of the auger hole was determined by the depth at which analytes were non-detectable or to refusal. The locations are predominantly adjacent to one another and were chosen based on where detections of the analytes had been previously identified at or below 20 feet bgs (50 feet x 75 feet bgs area previously excavated to 20 feet bgs in November 2006). All previous sampling reports were rigorously examined in an attempt to address all suspected impacts of the target COC's. This resulted in adding locations that were outside of the 50 by 75 foot rectangle approved in the work plan.

On average, two large auger hole locations were drilled and analyzed daily for approximately six weeks. The total volume of soil removed from all 46 large auger holes drilled is 967 yd^3 (Table 2).

In addition, confirmation samples from previous excavation activities conducted between November 6 and November 20, 2006 have been identified to contain the following constituents: total petroleum hydrocarbons, diesel range (C13-C23); total petroleum hydrocarbons, oil range (C24-C40); and total recoverable petroleum hydrocarbons (TRPH) at concentrations of 11 mg/kg, 99 mg/kg and 197 mg/kg, respectively (Appendix D).

RULE 1166 PERMITTING AND MONITORING

Prior to initiating excavation activities, Wayne Perry Inc. (WPI), the general direct bill contractor for SHELL coordinating the augering operation, obtained reference number 164476 from the South Coast Air Quality Management District (SCAQMD) [under WPI's Company ID No. 800379 and Mitigation Plan/Application No. 466039].

DELTA initiated monitoring for volatile organic compounds (VOCs) pursuant to SCAQMD Rule 1166 on July 9, 2007. Over-burden soil was monitored on July 9, 2007 using a PID – organic vapor analyzer (PID–OVA) calibrated to 100 parts per million by volume (ppmv) of hexane. The monitoring was conducted by measuring VOCs at a distance of no more than 3 inches from the surface using the PID-OVA. VOC concentration readings from the excavated soil ranged from 0.0 to 1767.3 ppmv. Copies of these sheets and the Rule 1166 permit are included in Appendix E.

Excavated soil was stockpiled away from the excavations and then covered. Stockpile samples were collected and analyzed to determine disposal requirements.

PREFIELD ACTIVITIES

Site marking

Auger hole locations were marked by DELTA Staff Personnel with construction stakes and 2 ½ foot radius string and marking paint to mark the five foot diameter distance. DELTA pinpointed the boring centers from previously recorded triangulation data based upon established benchmarks.

Pre-Construction Job Meeting

DELTA held an onsite pre-construction job meeting with the drilling company and all stakeholders (including Shell, Sunrise, Sunrise's consultant, and TFD) to review the work process and safety considerations for the auger excavation activities. As detailed in the *Expedited Additional Auger-Excavation Work Plan*, the meeting determined the augering and backfilling sequence as well as the working locations of the spoil-piles.

Site Clearance

DELTA contacted Underground Services Alert at least 48 hours prior to drilling, arranged the drilling schedule and mobilized drilling equipment and materials. Prior to boring advancement, a utility locator contractor performed a geophysical survey of the proposed auger locations. A site-specific health and safety plan was prepared by DELTA prior to initiating field activities. Notifications regarding field activities were made in advance to the appropriate agencies and property owner.

AUGER EXCAVATION

Auger Placement and Sequencing

Previous detections of the analytes below the 20 feet bgs level were mapped out and the proposed 46 borings were placed tangentially in clusters to remove these impacts as well as any lateral spreading from these detections. The previously considered plan for fewer borings was expanded to blanket these areas of earlier detections (almost all of which were of concentrations below the US EPA Region 9 Residential Preliminary Remediation Goals).

Auger sequencing (as much as possible) was determined by starting with the locations previously determined to have the highest concentrations and the next location was chosen with at least one auger hole location in between to allow for the backfill concrete slurry to set-up. The sequence continued in this manner until all proposed auger locations were drilled.

Contingency Augering

Contingency augering was not conducted since groundwater and previously undetected chlorinated compounds were identified and this case was subsequently referred to the LARWQCB. Further review by the new regulator appeared to be warranted before proceeding with any additional field activities.

DRILLING AND SAMPLE COLLECTION

On July 5 and 6, 2007, WDC Exploration and Wells (WDC), supervised by a DELTA geologist, cleared two exploratory borings, LAH-20 and LAH-35, with airknife equipment to a minimum depth of approximately five feet bgs. Both LAH locations were cleared by using airknife equipment to effect five 8-inch diameter boreholes in a rosette pattern, since both locations were located outside of the 50' x 75' x 20' grid area and were not previously cleared.

From July 9, 2007 through August 15, 2007, Barney's Hole-Digging Service, Inc. (Barney's), supervised by a DELTA geologist, drilled 46 exploratory soil borings, using a five-foot diameter large auger drill.

As drilling was conducted utilizing a large auger drill rig, soil samples were collected off the auger flights at the specified depth of 10 feet below the deepest previous detectable analyte and placed in 2 inch brass sleeves (Appendices B and C). Two certified analytical laboratories, Centrum Analytical Laboratories, Inc. (Centrum) and Jones Environmental, Inc. (Jones), analyzed the soil samples immediately after collection in an on-site mobile laboratory. If no analytes were detected in the sample, the boring was considered complete and the borehole was backfilled with 2-sack concrete slurry. If any analytes were detected, a subsequent sample was collected five to ten feet below the initial sample. Boreholes were advanced at determined intervals until a collected soil sample was analyzed to non-detect, or until refusal. At each sampling interval, the soil samples were logged by the field geologist using the Unified Soil Classification System.

Soil samples collected from large augers holes LAH-1 through LAH-7, LAH-9, LAH-11, LAH-13, LAH-16 through LAH-26, LAH-30 through LAH-33, LAH-35, LAH-36, and LAH-43 through LAH-46 were analyzed by Centrum between July 9, 2007 and August 1, 2007. Soil samples submitted to Centrum were collected in 2 inch brass sleeves. Each sleeve was then sealed at each end with Teflon™ - lined plastic end caps and labeled in accordance with specified sampling procedures. Soil samples submitted to the Centrum on-site mobile lab were processed for the Environmental Protection Agency (EPA) Method 5035 by extracting the soil using a syringe and injecting into VOA's.

Soil samples collected from large auger holes LAH-8, LAH-10, LAH-12, LAH-14, LAH-15, LAH-27 through LAH-29, LAH-34, and LAH-37 through LAH-42 were analyzed by Jones between August 6, 2007 and August 15, 2007. Samples submitted to Jones were collected in 2 inch diameter brass sleeves. Each sleeve was then sealed at each end with Teflon™ - lined plastic end caps and labeled in accordance with specified sampling procedures. Soil samples selected for laboratory analysis were prepared by Jones personnel in a manner consistent with EPA Method 5035 using Encore® samplers.

The VOA's and the brass sleeves were submitted with the appropriate chain-of-custody to the on-site mobile laboratory for chemical analysis for full scan analysis.

Soil samples were field screened for the presence of volatile organic compounds (VOCs) by headspace analysis using a PID calibrated to 100 parts per million by volume (ppmv) of isobutylene. PID readings, lithology, and field observations are documented on the boring logs in Appendix F. Boring data is summarized in Table 1.

Grab groundwater samples were obtained from large auger holes LAH-22 and LAH-35. For each large auger hole location, a new disposable Teflon bailer was lowered into the borehole and the groundwater sample retrieved, and poured into five 40 milliliter glass vials with all headspace removed and preserved with hydrochloric acid. The samples were submitted with the appropriate chain-of-custody documentation to the onsite mobile laboratory for chemical analysis for full scan analysis.

EQUIPMENT DECONTAMINATION

An equipment decontamination station was constructed of hay bales covered with watertight heavyweight plastic sheeting. All augers, prior to starting each of the borings, were suspended over the decontamination

station and were pressure washed and rinsed. All down-hole sampling equipment, between sampling intervals, were brushed to remove all soil, washed in a non-phosphate detergent, and rinsed with water.

ANALYTICAL PROGRAM

Soil samples collected were analyzed for the presence of TPH-g using the GC/MS Method. VOCs, including BTEX compounds, MTBE, TBA, DIPE, ETBE, TAME were analyzed using Full Scan EPA Method 8260B. Ethanol was also analyzed using EPA Method 8260B. Soil samples were collected and prepared for laboratory analysis according to EPA Method 5035. Soil analytical results are summarized in Table 3 and Figures 5A and 5B. Certified analytical reports (CARs) including chain-of-custody documentation for soil samples are presented in Appendix H.

Additionally, the grab groundwater samples were analyzed for the presence of TPH-g using the GC/MS Method. VOCs, including BTEX compounds, MTBE, TBA, DIPE, EBTE, TAME, and ethanol were analyzed using Full Scan EPA Method 8260B. Ethanol was also analyzed using EPA Method 8260B. Grab groundwater analytical results are summarized in Table 4 and shown of Figure 6. CARs including chain-of-custody documentation for the grab groundwater samples are presented in Appendix H.

WASTE DISPOSAL

Airknife sludge generated during field activities were stored in Department of Transportation approved 55-gallon drums. The drums were sealed and labeled in accordance with SHELL's protocols. The waste was temporarily stored on-site pending disposal coordination.

Rinseate water generated during field activities was pumped through a transfer hose from the decontamination station to an onsite 1,700-gallon Baker Tank and stored. The Baker Tank was equipped with a check valve that prevented any rinseate water from being inadvertently released. American Integrated Services (AIS) twice pumped out and rinsed the Baker Tank. All decontamination water was pumped from the Baker Tank to a vacuum truck and transported to a SHELL-approved waste facility.

Soil cuttings were stockpiled on site, profiled for petroleum impacts, and removed by American Remedial Technologies, Inc. (ART) to two different facilities: ART's facility in Inglewood, CA for impacted soil and SHELL's facility in Carson, CA for non-impacted soil.

All of the large auger holes were backfilled with 2-sack concrete slurry from total depth to 3 feet bgs. From 3 feet bgs to surface each borehole was backfilled with the stockpiled non-impacted soil. The total volume of soil removed from all 46 large auger holes drilled is 967 yd^3 (Table 2).

Waste inventory and manifest documentation are presented in Appendix G.

FINDINGS

SOIL ANALYTICAL RESULTS

Petroleum-derived constituents: TPH-g was detected in 35 soil samples collected from sixteen borehole locations at a maximum concentration of 190 mg/kg (LAH-31d30). Benzene was detected in twelve soil samples collected from five borehole locations, with a maximum concentration of 0.0050 mg/kg (LAH-

31d30). Toluene was detected in twenty soil samples collected from five borehole locations, with a maximum concentration of 0.20 mg/kg (LAH-31d30). Ethylbenzene was detected in 42 soil samples collected from sixteen borehole locations, with a maximum concentration of 1.6 mg/kg (LAH31-d30). Xylenes were detected in 38 soil samples collected from sixteen borehole locations, with a maximum concentration of 3.24 mg/kg (LAH-31d30). 1,2,4-trimethylbenzene was detected in 61 soil samples collected from twenty one borehole locations, with a maximum concentration of 14 mg/kg (LAH-31d30). 1,3,5-trimethylbenzene was detected in 42 soil samples collected from eighteen borehole locations, with a maximum concentration of 3.3 mg/kg (LAH-31d30). DIPE was detected in 24 soil samples collected from twenty borehole locations, with a maximum concentration of 0.011 mg/kg (LAH-19d35). MTBE was detected in four soil samples collected from three borehole locations, with a maximum concentration of 0.0020 mg/kg (LAH-19d35). TBA was detected three soil samples collected from three borehole locations with a maximum concentration of 0.022 mg/kg (LAH-31d50 and LAH-35d46). N-butylbenzene was detected in 27 soil samples collected from ten borehole locations with a maximum concentration of 1.3 mg/kg (LAH-31d30). Sec-butylbenzene was detected in fifteen soil samples collected from seven borehole locations, with a maximum concentration of 0.17 mg/kg (LAH-31d30). 1,2-Dichloroethane was detected in sixteen soil samples collected from twelve borehole locations, with a maximum concentration of 0.0078 mg/kg (LAH-35d46). Isopropylbenzene was detected in 18 samples collected from nine borehole locations, with a maximum concentration of 0.22 mg/kg (LAH-31d30). P-isopropyltoluene was detected in nine samples collected from five borehole locations, with a maximum concentration of 0.069 mg/kg (LAH-31d30). Naphthalene was detected in 34 samples collected from fourteen borehole locations, with a maximum concentration of 4.0 mg/kg (LAH-31d30). N-propylbenzene was detected in 40 samples collected from fifteen borehole locations with a maximum concentration of 2.2 mg/kg (LAH-31d30).

ETBE and TAME were not detected above their respective reporting limits in the soil samples collected.

Petroleum derived constituents are summarized on Figure 7.

Non-petroleum-derived constituents: Chlorobenzene was detected in six samples collected from six boring locations, with a maximum concentration of 0.0043 mg/kg (LAH-21d43). 1,1-dichloroethane was detected in eight soil samples collected from six borehole locations, with a maximum concentration of 0.0019 mg/kg (LAH-21d43). Cis-1,2-dichloroethene was detected in fifteen soil samples collected from twelve borehole locations, with a maximum concentration of 0.013 mg/kg (LAH-21d43). Trichloroethene was detected in five samples collected from five borehole locations, with a maximum concentration of 0.0015 mg/kg (LAH-44d55). Vinyl chloride was detected in six samples collected from five borehole locations, with a maximum concentration of 0.0047 mg/kg (LAH-21d43).

Thirteen borehole locations (LAH-1, LAH-8, LAH-10, LAH-12, LAH-14, LAH-15, LAH-29, LAH-37 through LAH-40, LAH-42 and LAH-43) reported no detections for any analytes. These borehole locations are concentrated in the northeastern and south central portions of the site (Figures 5A and 5B). LAH-8, LAH-10 and LAH-12 are located in Grid 1 and LAH-14 and LAH-15 are located at the northern edge of Grid 2. LAH-1 is located in Grid 6, at the northwestern edge of the site. LAH-29, LAH-37 through LAH-39, LAH-42 and LAH-43 are located in the southeastern quadrant of Grid 4 in the southwestern portion of the site; LAH-40 is located in Grid 3 in the southeastern portion of the site. An additional five borehole locations (LAH-2 through LAH-6) had DIPE detected in the first soil sample collected, but had no analytes detected in the

subsequent soil sample. These five borehole locations are all located in Grids 1 and 6 in the northern portion of the site.

The borehole locations with the highest concentration of analytes (one or more soil samples with detection of six or more analytes; LAH-21 through LAH-26, LAH-28, LAH-30 through LAH-33, LAH-35, LAH-36, and LAH-44) are located in the central and southwestern portions of the site. LAH-21 through LAH-26 are located in the southern portions of Grids 2 and 5 in the central portion of the site. These boreholes are located approximately at the southern edge of the former western fuel dispenser. LAH-28, LAH-31 through LAH-33, LAH-36 and LAH-44 are located in the northern and western portions of Grid 4 in the southwestern portion of the site. These boreholes are located approximately in the location of the former western UST. LAH-30 is located in the northwestern corner of Grid 5 in the southeastern portion of the site (near the southern tip of the former western fuel dispenser) and LAH-35 is located west of Grid 4 in the southwestern portion of the site (near the western edge of the former western UST). LAH-31 (center of Grid 4) had the highest detections for thirteen analytes; LAH-21 (southern portion of Grid 5) had the highest detections for three analytes; LAH-35 (west of Grid 4) had the highest detection for two analytes.

The borehole locations with detections of non-petroleum-derived constituents are concentrated in the southwestern portion of the site. More than one non-petroleum-derived constituent was detected in at least one sample from LAH-21, LAH-24, LAH-25 (southern portion of Grid 5), LAH-31, LAH-36, LAH-44 (Grid 4), and LAH 35 (west of Grid 4). A single non-petroleum-derived constituent was detected in one sample each from LAH-32 and LAH-39 (Grid 4) and LAH-20 (west of Grid 4). Two borehole locations with detections of non-petroleum-derived constituents are found outside the southwestern portion of the site: LAH -9 (southwestern corner of Grid 1) and, LAH 13 (northern portion of Grid 5).

Also, debris described as pieces of lumber, chunks of asphalt and concrete were encountered at approximately 47 feet bgs in LAH-21. In LAH-26, a large piece of metal was discovered which appeared to be an axle from a car at approximately the same depth.

Certified analytical reports with chain of custody documentation are included in Appendix H. A summary of soil analytical results are presented in Table 2 and displayed on Figures 5A and 5B.

Non-petroleum derived constituents are summarized on Figure 7.

GRAB GROUNDWATER ANALYTICAL RESULTS

Grab groundwater samples were collected from borehole locations LAH-22 and LAH-35. Both petroleum-derived and non-petroleum-derived constituents were detected in the grab groundwater samples from both boreholes.

Petroleum-derived constituents: TPH-g was detected at a concentration of 150 µg/L in LAH-35. 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene were detected at concentrations of 0.77 µg/L and 0.73 ug/L, respectively, in LAH-22. DIPE was detected at a concentration of 3.6 µg/L in LAH-35. TBA was detected in both LAH-22 and LAH-35 at a maximum concentration of 120 µg/L (LAH-35). 1, 2-dichloroethane was detected in both LAH-22 and LAH-35 at a maximum concentration of 30 ug/L (LAH-35). Naphthalene was detected in LAH-22 at a concentration of 0.94 ug/L.

Benzene, toluene, ethyl-benzene, total xylenes, ETBE, MTBE, and TAME were not detected above their respective reporting limits in the grab groundwater samples collected for either LAH-22 or LAH-35.

Non-petroleum-derived constituents: Cis, 1,2-dichloroethene was detected in both LAH-22 and LAH-35, at a maximum concentration of 64 ug/L (LAH-35). Vinyl chloride was detected in both LAH-22 and LAH-35, at a maximum concentration of 13 ug/L (LAH-35).

Acetone (98 ug/L) and 2-butanone (MEK) (10 ug/L) were detected only in the grab groundwater samples collected from LAH-22:

The following other constituents were detected only in the grab groundwater samples collected from LAH-35: chlorobenzene at a concentration of 7.1 ug/L, 1,4-dicholorobenzene at a concentration of 0.66 ug/L, trans-1,2-dichloroethene at a concentration of 3.5 ug/L, 1,2-dichloropropane at a concentration of 0.50 ug/L and trichloroethene at a concentration of 2.1 ug/L.

Certified analytical reports with chain of custody documentation are included in Appendix H. A summary of grab groundwater analytical results is presented in Table 4 and displayed on Figure 6.

Petroleum and non-petroleum derived constituents are summarized on Figure 7.

PALOS VERDES LANDFILL RESEARCH

Discovery of lumber, car parts, and asphalt during the drilling operation prompted further investigation into the previous uses of the parcel. It was identified that Parcel #4 of the former PVLF abuts and is just south of the subject site and that a plume of groundwater contamination is migrating from the landfill and is under the parcel SHELL had previously leased several years ago and to which SHELL is currently remediating. A figure depicting the extent of the groundwater plume is included in the attached appendix (Appendix I).

Reportedly, the landfill operated from 1952 until December of 1980 and accepted both hazardous and non hazardous waste including oily wastes from local refineries and crude oil sludge associated with oil drilling. The following other chemicals of concern are associated with the landfill plume: vinyl chloride, trichlorethelene, arsenic, benzene, and toluene. With this development, SHELL's laboratory analysis was expanded to search for the chlorinated substances and the results are contained in Tables 3 and 4.

Mr. Tom Fitzpatrick, former property owner, and a DELTA staff geologist shared an onsite discussion revealing the hill behind the site, which once extended to Hawthorne Boulevard, was excavated or mined out. Mr. Fitzpatrick stated he had to bring in fill material from elsewhere in order to bring the site up to its present grade.

Mr. Randy Orlowski, SHELL project manager, contacted Mr. Kai Kuo at the Los Angeles County Sanitation District (LACSD) to obtain further information regarding the groundwater wells located south of the property behind the abandoned strip mall. It was identified that there are three monitoring wells bordering the property, M49A, P410 and P411 and are monitored quarterly by the LASCSD. Vinyl chloride was detected in groundwater in well P410 and chlorobenzene was detected in wells P410 and P411 during the second quarter 2007 sampling event at maximum concentrations of 86 ug/L (P410) and 35 ug/L (P410), respectively and displayed on Figure 8. They are also referenced on Table 6 and 7 in Appendix I (DTSC, 2007). Vinyl chloride was detected in the grab groundwater samples collected from LAH-35 and LAH-22 and chlorobenzene was detected in the grab groundwater sample collected from LAH-35. According the second quarter 2007 LACSD PVLF report the groundwater gradient is flowing to the north.

In the report entitled, *Remedial Investigation Report Palos Verdes Landfill,* prepared for DTSC, June 1995, two different areas of groundwater contamination, or plumes, containing VOC levels above background levels, exist at the PVLF. One plume occurs near Hawthorne Boulevard (at the northern corner of the main site) and the other, consisting of two components occurs near Crenshaw Boulevard (at the eastern corner of the main site along Crenshaw Boulevard and the South Coast Botanic Garden along Rolling Hills Road).

Both plumes extend offsite. A figure depicting the two identified groundwater plumes is referenced in Palos Verdes Landfill – Site Investigation Completion: Fact Sheet #7 (Appendix I). The *Remedial Invesigation Report – Palos Verdes Landfill* report also states "groundwater down gradient of the site contains chemicals of potential concern at concentrations that are elevated above naturally occurring background levels. Two plumes of contaminated groundwater originating from the site appear to be moving approximately northeast towards the West Coast Basin."

SUMMARY

Based on the results of this investigation, DELTA concludes the following:

- The site is generally underlain by interbedded clayey gravel, poorly-graded sand, silty sand, sandy silt, and silt to approximately 25 feet bgs, and by clayey silt, silt, silty sand, silty clay and sandy silt to 74 feet bgs, the total depths explored. Groundwater was first encountered at approximately 45 feet bgs at LAH-22 and LAH-35. Static groundwater was measured at these two borehole locations at approximately 45 feet bgs. However, measurable groundwater was not encountered in other boring locations.

- TPH-g, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, DIPE, TBA, chlorobenzene, 1,2-dichloroethane, cis-1,2-dichloroethene, naphthalene, trichloroethene and vinyl chloride were detected in both soil and groundwater at the site.

- Benzene, toluene, ethylbenzene, xylenes, MTBE, n-butylbenzene, sec-butylbenzene, isopropylbenzene, p-isopropyltoluene, n-propylbenzene were detected in soil only at the site.

- ETBE and TAME were not detected in the soil samples collected.

- Petroleum hydrocarbon and fuel oxygenate impacts to soil have been defined laterally and vertically to approximately 74 feet bgs or until groundwater was encountered. The borehole locations with the highest analyte impacts occur in the central and southwestern portions of the site, in the vicinity of the former western UST and the southern edge of the former western fuel dispenser. Borehole locations with the fewest analyte detections occur in the northern and south-central portions of the site.

- Palos Verdes Landfill research revealed the groundwater flow direction flows to the northeast from the former landfill, Parcel #4, that abuts the subject property to the south. As stated in the *Remedial Investigation Report Palos Verdes Landfill,* prepared for DTSC, June 1995, two groundwater plumes are identified and one is located near Hawthorne Boulevard (at the northern corner of the main site) and the other, consisting of two components occurs near Crenshaw Boulevard (at the eastern corner of the main site along Crenshaw Boulevard and the South Coast Botanic Garden along Rolling Hills Road).

- Two of the non-petroleum derived constituents, vinyl chloride and chlorobenzene, detected in the grab groundwater samples collected in LAH-22 and LAH-35 were detected in the offsite wells monitored by the DTSC.

DISCUSSION

To date SHELL has removed approximately 6,000 tons of soil from the subject site in attempts to meet the regulatory requirements of the previous lead regulatory agency (Torrance Fire Department).

Although the source of remaining petroleum impacts cannot be singularly identified, all petroleum-derived impacts remaining at the site are generally in the same magnitude as the detection limit and all are under the Preliminary Remediation Goals (PRGs) (see Appendix J).

Nevertheless, non-petroleum-derived chlorinated impacts (such as vinyl chloride) consistent with current analytes associated with the Palos Verdes Landfill are detected in landfill groundwater samples onsite. As the identified gradient is moving from the landfill toward the subject site and these constituents are not historically associated with retail petroleum operations, it appears very clear that these additional and significant analytes are associated distinctly with PVLF.

RECOMMENDATIONS

Based on the findings of this report, the additional research of the PVLF, and the association of the remaining analytes with the PVLF, SHELL respectfully requests the LARWQCB direct no further action be required of SHELL as the responsible party for any continued mitigation activities for this site.

This report has been prepared to comply with the California Code of Regulations, Title 23, Division 3, Chapter 16, Article 11. All work was performed under the supervision of a California-registered professional engineer.

This report represents DELTA's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between DELTA and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of DELTA's Client and anyone else specifically listed on this report. DELTA will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, DELTA makes no express or implied warranty as to the contents of this report.

If you have any questions, please contact Ms. Gretchen Tagavilla (DELTA) or Mr. Brad Clark (DELTA) at (626) 256-6662. The SHELL Project Manager is Mr. Randy Orlowski. Mr. Orlowski can be reached at (949) 360-1111.

Sincerely,
Delta Consultants

Gretchen Tagavilla
Project Associate

REGISTERED PROFESSIONAL ENGINEER
BRADLEY E. CLARK
No. C55425
Exp. 12/31/08
CIVIL
STATE OF CALIFORNIA

Bradley E. Clark, P.E. C55425
Senior Project Engineer

cc: Mr. Randy Orlowski, Shell Oil Products US
Mr. Brad Clark, DELTA
Mr. Kenneth Lew, Torrance Fire Department
Mr. Roger Green, Sunrise Senior Living
Mr. Scott Williams, Seltzer/ Caplan/ McMahon/ Vitek: A Law Corporation

ATTACHMENTS:

Table 1 – Boring Data
Table 2 – Summary of Waste Manifest Records (Soil)
Table 3 – Soil Analytical Data
Table 4 – Grab Groundwater Analytical Results
Figure 1 – Site Location Map
Figure 2 – Extended Site Map with Auger Excavation Locations
Figure 3 – Site Plan Showing Historic Sampling Locations (Previous Consultants)
Figure 4A – DELTA Historic Soil Sample Location Map
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Figure 5A – Hydrocarbon Distribution in Soil Map, Large Auger Holes 1 through 23
Figure 5A – Hydrocarbon Distribution in Soil Map, Large Auger Holes 24 through 46
Figure 6 – Hydrocarbon Distribution in Groundwater Map
Figure 7 – Summary of Petroleum and Non-Petroleum Derived Constituents
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Appendix A – Agency Letters
Appendix B – Historical Soil Analytical Data (Previous Consultants)
Appendix C –Historical Soil Analytical Data (DELTA)
Appendix D – Imported Soil Certified Analytical Results and Chain-of-Custody Documentation
Appendix E – Air Monitoring Sheets and 1166 Permit
Appendix F – Boring Logs
Appendix G – Waste Inventory Record
Appendix H – Certified Laboratory Analytical Results and Chain-of-Custody Documentation
Appendix I – Palos Verdes Landfill Research
Appendix J – Region 9 PRG Table, October 2004

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TABLES

Table 1
Boring Data
Former Shell Service Station
25535 Hawthorne Boulevard, Torrance, CA

Name	Type	Date Drilled	Approx. Surf. Elev. (ft AMSL)	Total Depth (ft)	Incr. (ft)	Soil Sample Depth (ft)	First GW Depth (ft)	First GW Elev. (ft AMSL)	Screen Diameter (in.)	Screen Depth (ft) Top	Screen Depth (ft) Bottom	Comments
SB-1	Boring	10/5/2006	NA	25	5	10,15,20,25	-	-	-	-	-	Air knifed to ~8' bgs
SB-2	Boring	10/6/2006	NA	25	5	10,15,20,25	-	-	-	-	-	Air knifed to ~8' bgs
SB-3	Boring	10/5/2006	NA	25	5	10,15,20,25	-	-	-	-	-	Air knifed to ~8' bgs
SB-4	Boring	10/5/2006	NA	25	5	10,15,20,25	-	-	-	-	-	Air knifed to ~7' bgs
SB-6	Boring	10/5/2006	NA	25	5	10,15,20,25	-	-	-	-	-	Air knifed to ~8' bgs
SB-7	Boring	10/5/2006	NA	25	5	10,15,20,25	-	-	-	-	-	Air knifed to ~8' bgs
SB-8	Boring	10/6/2006	NA	25	5	10,15,20,25	-	-	-	-	-	Air knifed to ~8' bgs
GP-1	Probe	3/1/2007	NA	35	varied	22.5, 25, 28, 31, 35	-	-	-	-	-	
GP-2	Probe	3/1/2007	NA	35	varied	22, 25, 28, 33, 35	-	-	-	-	-	
GP-3	Probe	3/1/2007	NA	35	varied	22, 25, 28, 33, 35	-	-	-	-	-	
GP-4	Probe	3/1/2007	NA	35	3	21, 24, 27, 30, 33, 35	-	-	-	-	-	
GP-5	Probe	3/2/2007	NA	35	3	21, 24, 27, 30, 33, 35	-	-	-	-	-	
GP-6	Probe	3/2/2007	NA	35	varied	22, 25, 28, 33, 35	-	-	-	-	-	
GP-7	Probe	3/2/2007	NA	35	varied	22, 25, 28, 33, 35	-	-	-	-	-	
GP-8	Probe	6/22/2007	NA	22	-	22	-	-	-	-	-	
GP-9	Probe	6/22/2007	NA	22	-	22	-	-	-	-	-	
GP-10	Probe	6/22/2007	NA	22	-	22	-	-	-	-	-	
GP-11	Probe	6/22/2007	NA	22	-	22	-	-	-	-	-	
GP-12	Probe	6/22/2007	NA	22	-	22	-	-	-	-	-	
GP-13	Probe	6/22/2007	NA	22	-	22	-	-	-	-	-	
LAH-1	Boring	7/13/2007	NA	30	-	30	-	-	-	-	-	5' diameter boring
LAH-2	Boring	7/18/2007	NA	40	5	35, 40	-	-	-	-	-	5' diameter boring
LAH-3	Boring	7/25/2007	NA	35	5	35, 40	-	-	-	-	-	5' diameter boring
LAH-4	Boring	7/19/2007	NA	45	10	35, 45	-	-	-	-	-	5' diameter boring
LAH-5	Boring	7/20/2007	NA	35	10	35, 45	-	-	-	-	-	5' diameter boring
LAH-6	Boring	7/16/2007	NA	35	5	30, 35	-	-	-	-	-	5' diameter boring
LAH-7	Boring	7/30/2007	NA	35	5	30, 35	-	-	-	-	-	5' diameter boring
LAH-8	Boring	8/8/2007	NA	30	-	30	-	-	-	-	-	5' diameter boring
LAH-9	Boring	8/1/2007	NA	40	10	30, 40	-	-	-	-	-	5' diameter boring

Table 1
Boring Data
Former Shell Service Station
25535 Hawthorne Boulevard, Torrance, CA

Name	Type	Date Drilled	Approx. Surf. Elev. (ft AMSL)	Total Depth (ft)	Incr. (ft)	Soil Sample Depth (ft)	First GW Depth (ft)	First GW Elev. (ft AMSL)	Screen Diameter (in.)	Screen Depth (ft) Top	Screen Depth (ft) Bottom	Comments
LAH-10	Boring	8/13/2007	NA	30	-	30	-	-	-	-	-	5' diameter boring
LAH-11	Boring	7/26/2007	NA	74	varied	50, 55, 60, 74	-	-	-	-	-	5' diameter boring
LAH-12	Boring	8/9/2007	NA	30	-	30	-	-	-	-	-	5' diameter boring
LAH-13	Boring	7/11/2007	NA	40	5	30, 35, 40	-	-	-	-	-	5' diameter boring
LAH-14	Boring	8/6/2007	NA	50	-	50	-	-	-	-	-	5' diameter boring
LAH-15	Boring	8/7/2007	NA	50	-	50	-	-	-	-	-	5' diameter boring
LAH-16	Boring	7/12/2007	NA	39	7	32, 39	-	-	-	-	-	5' diameter boring
LAH-17	Boring	7/23/2007	NA	45	5	35, 40, 45	-	-	-	-	-	5' diameter boring
LAH-18	Boring	7/18-19/2007	NA	74	5	60, 65, 70, 74	-	-	-	-	-	5' diameter boring
LAH-19	Boring	7/24/2007	NA	55	varied	30, 35, 45, 55	-	-	-	-	-	5' diameter boring
LAH-20	Boring	7/20/2007	NA	40	5	35, 40	-	-	-	-	-	5' diameter boring
LAH-21	Boring	7/16/2007	NA	43	-	43	-	-	-	-	-	5' diameter boring
LAH-22	Boring	7/27/2007	NA	50	10	30, 40, 50	-	-	-	-	-	5' diameter boring
LAH-23	Boring	7/11/2007	NA	50	10	30, 40, 50	-	-	-	-	-	5' diameter boring
LAH-24	Boring	7/12/2007	NA	42	varied	30, 35, 42	-	-	-	-	-	5' diameter boring
LAH-25	Boring	7/17-18/2007	NA	74	varied	30, 40, 50, 60, 74	-	-	-	-	-	5' diameter boring
LAH-26	Boring	7/25/2007	NA	52	10	32, 42, 52	-	-	-	-	-	5' diameter boring
LAH-27	Boring	8/9/2007	NA	51	10	41, 51	-	-	-	-	-	5' diameter boring
LAH-28	Boring	8/10/2007	NA	56	varied	41, 51, 56	-	-	-	-	-	5' diameter boring
LAH-29	Boring	8/7/2007	NA	50	-	50	-	-	-	-	-	5' diameter boring
LAH-30	Boring	7/10/2007	NA	72.5	10	32.5, 42.5, 52.5, 62.5, 72.5	-	-	-	-	-	5' diameter boring
LAH-31	Boring	7/9/2007	NA	77	varied	30, 40, 50, 60, 75, 77	-	-	-	-	-	5' diameter boring
LAH-32	Boring	7/26-27/2007	NA	74	varied	43, 53, 63, 74	-	-	-	-	-	5' diameter boring
LAH-33	Boring	8/1/2007	NA	32.5	-	32.5	-	-	-	-	-	5' diameter boring
LAH-34	Boring	8/8/2007	NA	57.5	varied	32.5, 42.5, 52.5, 57.5	-	-	-	-	-	5' diameter boring
LAH-35	Boring	7/13/2007	NA	46	-	46	-	-	-	-	-	5' diameter boring
LAH-36	Boring	7/17/2007	NA	74	10	45, 55, 65, 74	-	-	-	-	-	5' diameter boring
LAH-37	Boring	8/15/2007	NA	43	-	43	-	-	-	-	-	5' diameter boring
LAH-38	Boring	8/14/2007	NA	43	-	43	-	-	-	-	-	5' diameter boring
LAH-39	Boring	8/13/2007	NA	45	-	45	-	-	-	-	-	5' diameter boring
LAH-40	Boring	8/10/2007	NA	30	-	30	-	-	-	-	-	5' diameter boring
LAH-41	Boring	8/6/2007	NA	55	10	35, 45, 55	-	-	-	-	-	5' diameter boring
LAH-42	Boring	8/7/2007	NA	35	-	35	-	-	-	-	-	5' diameter boring
LAH-43	Boring	7/30/2007	NA	30	-	30	-	-	-	-	-	5' diameter boring

Table 1
Boring Data
Former Shell Service Station
25535 Hawthorne Boulevard, Torrance, CA

Name	Type	Date Drilled	Approx. Surf. Elev. (ft AMSL)	Total Depth (ft)	Incr. (ft)	Soil Sample Depth (ft)	First GW Depth (ft)	First GW Elev. (ft AMSL)	Screen Diameter (in.)	Screen Depth (ft) Top	Screen Depth (ft) Bottom	Comments
LAH-44	Boring	7/23/2007	NA	55	varied	30, 40, 50, 55	-	-	-	-	-	5' diameter boring
LAH-45	Boring	7/24/2007	NA	39	5	34, 39	-	-	-	-	-	5' diameter boring
LAH-46	Boring	7/31/2007	NA	40	5	35, 40	-	-	-	-	-	5' diameter boring

Notes:

NA = not available

- = not applicable

Table 2
Summary of Waste Manifest Records (Soil)
Former Shell Service Station
25535 Hawthorne Blvd, Torrance

Date	Manifest Number	Net Tons	*Total cubic yardage
7/10/2007	010	12.79	7.994
	001	15.28	9.550
	002	13.24	8.275
	006	15.09	9.431
7/11/2007	003	14.84	9.275
	004	15.94	9.963
	005	16.95	10.594
	007	13.61	8.506
	008	18.09	11.306
7/12/2007	009	16.67	10.419
	011	16.11	10.069
	012	16.38	10.238
	013	17.92	11.200
	014	18.62	11.638
7/13/2007	015	17.54	10.963
	016	20.3	12.688
	017	17.46	10.913
	018	19.33	12.081
7/16/2007	019	18.5	11.563
	020	18.79	11.744
	021	19.75	12.344
	022	18.18	11.363
	023	19.59	12.244
7/18/2007	024	17.84	11.150
	025	16.26	10.163
	026	15.4	9.625
	027	17.16	10.725
	028	17.14	10.713
7/19/2007	029	18.51	11.569
	030	18.13	11.331
	031	17.52	10.950
	032	14.6	9.125
	032-A	17.76	11.100
	033	15.17	9.481
	034	18.63	11.644
	035	14.58	9.113
7/20/2007	037	17.68	11.050
7/24/2007	039	18.29	11.431
	040	19.26	12.038
	041	19.12	11.950
	042	18.35	11.469
	043	18.71	11.694
7/25/2007	044	18.85	11.781
	045	19.45	12.156
	046	21.49	13.431
	047	20.07	12.544
	048	20.6	12.875
7/26/2007	049	20.83	13.019
	050	16.79	10.494
8/2/2007	051	20.45	12.781
	053	20.99	13.119
	055	16.12	10.075
	057	19.71	12.319
8/7/2007	056	16.74	10.463
	057	18.48	11.550
	058	19.03	11.894
	059	19.57	12.231
8/8/2007	060	17.88	11.175
	061	16.41	10.256
	062	15.37	9.606
	063	16.24	10.150
	065	15.62	9.763
	066	17.53	10.956
	067	16.54	10.338
	068	16.66	10.413
	069	20.14	12.588
8/10/2007	064	19.4	12.125
	070	17.03	10.644
	071	19.29	12.056
	072	16.58	10.363

Table 2
Summary of Waste Manifest Records (Soil)
Former Shell Service Station
25535 Hawthorne Blvd, Torrance

Date	Manifest Number	Net Tons	*Total cubic yardage
8/13/2007	073	16.81	10.506
	074	17.45	10.906
	075	19.03	11.894
	076	19.89	12.431
	077	18.94	11.838
8/14/2007	078	20.22	12.638
	079	18.55	11.594
	080	20.80	13.000
	081	20.58	12.863
8/17/2007	082	20.71	12.944
	083	17.39	10.869
	084	24.77	15.481
	086	20.21	12.631
	087	17.25	10.781
	088	22.76	14.225
	0853	16.95	10.594
TOTAL:		**1547.25**	**967.031**

Note: * Net tons converted to cubic yards using the following formula: (net tons x 0.625)

Table 3
Summary of Soil Analytical Data - Large Auger Drilling Activities
Former Shell Service Station
25535 Hawthorne Blvd, Torrance

Sample ID / Depth (feet)	TPH-g mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylenes mg/kg	1,2,4-Trimethylbenzenee mg/kg	1,3,5-Trimethylbenzene mg/kg	DIPE mg/kg	ETBE mg/kg	MTBE mg/kg	TAME mg/kg	TBA mg/kg	Other Constituents mg/kg
LAH-1	**7/13/2007**												
30	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
LAH-2	**7/18/2007**												
35	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	**0.0079**	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
40	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
LAH-3	**7/25/2007**												
30	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	**0.0027**	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
35	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
LAH-4	**7/19/2007**												
35	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	**0.0037**	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
45	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
LAH-5	**7/20/2007**												
35	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	**0.0070**	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
45	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
LAH-6	**7/16/2007**												
30	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	**0.0028**	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
35	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
LAH-7	**7/30/2007**												
30	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	**0.0080**	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
35	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	1,2-Dichloroethane **0.0012**
LAH-8	**8/8/2007**												
30	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
LAH-9	**8/1/2007**												
30	**0.26**	ND<0.0010	ND<0.0010	**0.0041**	**0.0143**	**0.022**	**0.0069**	**0.0046**	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	Napthalene **0.0027** n-Propylbenzene **0.0024**
40	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	**0.0012**	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	cis-1,2,-Dichloroethene **0.0033**
LAH-10	**8/13/2007**												
30	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
LAH-11	**7/26/2007**												
50	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	**0.0011**	**0.0099**	**0.0024**	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	Napthalene **0.0027** n-Propylbenzene **0.0011**
55	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	**0.0010**	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
60	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	**0.0032**	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
74	ND<0.20	ND<0.0010	ND<0.0010	**0.0011**	ND<0.0020	**0.0095**	**0.0023**	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Propylbenzene **0.0015**
LAH-12	**8/9/2007**												
30	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
LAH-13	**7/11/2007**												
30	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	**0.0033**	**0.0011**	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
35	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	**0.0023**	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
40	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	1,2-Dichloroethane **0.0021** cis-1,2-Dichloroethene **0.0039**
LAH-14	**8/6/2007**												
50	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
LAH-15	**8/7/2007**												
50	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
LAH-16	**7/12/2007**												
32	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	**0.0029**	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
39	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	1,2-Dichloroethane **0.0026** cis-1,2-Dichloroethene **0.0028**

Table 3
Summary of Soil Analytical Data - Large Auger Drilling Activities
Former Shell Service Station
25535 Hawthorne Blvd, Torrance

Sample Depth (feet)	TPH-g mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylenes mg/kg	1,2,4-Trimethylbenzene mg/kg	1,3,5-Trimethylbenzene mg/kg	DIPE mg/kg	ETBE mg/kg	MTBE mg/kg	TAME mg/kg	TBA mg/kg	Other Constituents mg/kg
LAH-17	**7/23/2007**												
35	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	**0.0016**	ND<0.0010	**0.0029**	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
40	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	**0.0030**	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
45	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
LAH-18	**7/18 and 7/19/2007**												
60	ND<0.20	ND<0.0010	ND<0.0010	**0.0011**	ND<0.0020	**0.0015**	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
65	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	**0.0012**	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
70	ND<0.20	ND<0.0010	ND<0.0010	**0.0017**	ND<0.0020	**0.0017**	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Propylbenzene **0.0011**
74	ND<0.20	ND<0.0010	ND<0.0010	**0.0016**	ND<0.0020	**0.0035**	**0.0011**	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Propylbenzene **0.0012**
LAH-19	**7/24/2007**												
30	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	**0.0080**	ND<0.0020	**0.0014**	ND<0.0020	ND<0.020	
35	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	**0.011**	ND<0.0020	**0.0020**	ND<0.0020	ND<0.020	
45	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	**0.0035**	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
55	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
LAH-20	**7/20/2007**												
35	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	**0.0020**	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	1,2-Dichloroethane **0.0015** cis-1,2-Dichloroethene **0.0026**
40	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
LAH-21	**7/16/2007**												
43	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	Chlorobenzene **0.0043** 1,1-Dichloroethane **0.0019** 1,2-Dichloroethane **0.0049** cis-1,2-Dichloroethene **0.013** Trichloroethene **0.0010** Vinyl chloride **0.0047**
LAH-22	**7/27/2007**												
30	**6.2**	**0.0049**	**0.0015**	**0.14**	**0.498**	**0.49**	**0.17**	**0.002**	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene **0.028** sec-Butylbenzene **0.011** Isopropylbenzene **0.020** p-Isopropyltoluene **0.0041** Napthalene **0.065** n-Propylbenzene **0.085**
40	**0.83**	**0.0015**	**0.0011**	**0.023**	**0.0332**	**0.058**	**0.017**	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene **0.0041** sec-Butylbenzene **0.0021** Isopropylbenzene **0.0035** Napthalene **0.014** n-Propylbenzene **0.015**
50	ND<0.20	ND<0.0010	ND<0.0010	**0.0037**	**0.0030**	**0.0089**	**0.0023**	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	Napthalene **0.0042** n-Propylbenzene **0.0025**
LAH-23	**7/11/2007**												
30	**0.29**	ND<0.0010	ND<0.0010	**0.0012**	ND<0.0020	**0.019**	**0.0046**	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	Napthalene **0.0048** n-Propylbenzene **0.0021**
40	**0.42**	ND<0.0010	ND<0.0010	**0.0020**	ND<0.0020	**0.025**	**0.0062**	**0.0082**	ND<0.0020	**0.0016**	ND<0.0020	ND<0.020	Napthalene **0.0047** n-Propylbenzene **0.0034**
50	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
LAH-24	**7/12/2007**												
30	ND<0.20	ND<0.0010	ND<0.0010	**0.0026**	ND<0.0020	**0.0021**	ND<0.0010	**0.0030**	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Propylbenzene **0.0015**
35	**0.24**	ND<0.0010	ND<0.0010	**0.0064**	**0.0058**	**0.0089**	**0.0026**	**0.0088**	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	Napthalene **0.0045** n-Propylbenzene **0.0036**
42	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	Chlorobenzene **0.0016** 1,2-Dichloroethane **0.0032** cis-1,2-Dichloroethene **0.0090**

Table 3
Summary of Soil Analytical Data - Large Auger Drilling Activities
Former Shell Service Station
25535 Hawthorne Blvd, Torrance

Sample Depth (feet)	TPH-g mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylenes mg/kg	1,2,4-Trimethylbenzene mg/kg	1,3,5-Trimethylbenzene mg/kg	DIPE mg/kg	ETBE mg/kg	MTBE mg/kg	TAME mg/kg	TBA mg/kg	Other Constituents mg/kg
LAH-25	7/18 and 7/19/07												
30	3.7	0.0015	0.0096	0.067	0.123	0.24	0.062	0.0034	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.026 sec-Butylbenzene 0.0090 Isopropylbenzene 0.012 p-Isopropyltoluene 0.0020 Napthalene 0.091 n-Propylbenzene 0.056
40	0.68	ND<0.0010	0.0058	0.0086	0.0302	0.033	0.0089	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.0032 1,2-Dichloroethane 0.0023 cis-1,2-Dichloroethene 0.0047 Isopropylbenzene 0.0012 Napthalene 0.016 n-Propylbenzene 0.0061
50	0.33	ND<0.0010	0.0020	0.0041	0.0143	0.017	0.0042	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	Chlorobenzene 0.0013 1,1-Dichloroethane 0.0016 1,2-Dichloroethane 0.0041 cis-1,2-Dichloroethene 0.0068 Napthalene 0.0064 n-Propylbenzene 0.0026 Trichloroethene 0.0012 Vinyl chloride 0.0034
60	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	0.0025	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
74	0.52	ND<0.0010	0.0018	0.0093	0.0208	0.047	0.012	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.0028 Isopropylbenzene 0.0014 Napthalene 0.0083 n-Propylbenzene 0.0071
LAH-26	7/25/2007												
32	0.93	0.0036	ND<0.0010	0.038	0.0192	0.052	0.016	0.0032	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.0046 sec-Butylbenzene 0.0027 Isopropylbenzene 0.0049 Napthalene 0.019 n-Propylbenzene 0.021
42	0.40	0.0020	ND<0.0010	0.012	0.0081	0.023	0.0069	0.0041	ND<0.0020	0.0011	ND<0.0020	ND<0.020	n-Butylbenzene 0.0025 Isopropylbenzene 0.0021 Napthalene 0.013 n-Propylbenzene 0.0091
52	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
LAH-27	8/9/2007												
41	0.89	ND<0.0010	ND<0.0010	ND<0.0010	0.0174	0.109	0.017	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
51	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	0.001	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
LAH-28	8/10/2007												
41	1.23	ND<0.0010	ND<0.0010	0.0014	0.0472	0.147	0.021	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	n-Butylbenzene 0.0153 Napthalene 0.0396
51	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	0.0157	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
56	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
LAH-29	8/7/2007												
50	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
LAH-30	7/10/2007												
32.5	1.2	ND<0.0010	ND<0.0010	0.026	0.103	0.10	0.028	0.0027	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.0047 Isopropylbenzene 0.0030 Napthalene 0.013 n-Propylbenzene 0.014
42.5	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	0.0025	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
47.5	ND<0.20	ND<0.0010	ND<0.0010	0.0018	0.0053	0.0085	0.0022	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Propylbenzene 0.0010
52.5	0.57	ND<0.0010	ND<0.0010	0.0094	0.038	0.048	0.013	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.0026 Isopropylbenzene 0.0012 Napthalene 0.0098 n-Propylbenzene 0.0059
62.5	1.1	ND<0.0010	ND<0.0010	0.019	0.098	0.088	0.025	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.0038 Isopropylbenzene 0.0022 Napthalene 0.012 n-Propylbenzene 0.010
72.5	0.21	ND<0.0010	ND<0.0010	0.0031	0.0118	0.010	0.0028	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Propylbenzene 0.0016

Table 3
Summary of Soil Analytical Data - Large Auger Drilling Activities
Former Shell Service Station
25535 Hawthorne Blvd, Torrance

Sample Depth (feet)	TPH-g mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylenes mg/kg	1,2,4-Trimethylbenzene mg/kg	1,3,5-Trimethylbenzene mg/kg	DIPE mg/kg	ETBE mg/kg	MTBE mg/kg	TAME mg/kg	TBA mg/kg	Other Constituents mg/kg
LAH-31	7/9/2007												
30	190	0.0050	0.20	1.6	3.24	14	3.3	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 1.3 sec-Butylbenzene 0.17 Isopropylbenzene 0.22 p-Isopropyltoluene 0.069 Napthalene 4.0 n-Propylbenzene 2.2
40	20	0.0013	0.019	0.16	0.299	1.2	0.25	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.11 sec-Butylbenzene 0.037 Isopropylbenzene 0.040 p-Isopropyltoluene 0.012 Napthalene 0.24 n-Propylbenzene 0.20
50	5.3	0.0011	0.0045	0.079	0.119	0.65	0.12	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	0.022	n-Butylbenzene 0.033 sec-Butylbenzene 0.011 Chlorobenzene 0.0022 1,1-Dichloroethane 0.0017 1,2-Dichloroethane 0.0065 cis-1,2-Dichloroethene 0.0087 Isopropylbenzene 0.015 p-Isopropyltoluene 0.0045 Napthalene 0.11 n-Propylbenzene 0.073 Trichloroethene 0.0013 Vinyl chloride 0.0035
60	11	0.002	0.013	0.13	0.208	1.4	0.24	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.079 sec-Butylbenzene 0.024 1,2-Dichloroethane 0.0013 Isopropylbenzene 0.026 p-Isopropyltoluene 0.010 Napthalene 0.27 n-Propylbenzene 0.14
75	3.6	0.0013	0.01	0.058	0.115	0.25	0.084	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.023 sec-Butylbenzene 0.0077 Isopropylbenzene 0.010 Napthalene 0.076 n-Propylbenzene 0.050 p-Isopropyltoluene 0.0028
77	5.4	0.0022	0.051	0.092	0.38	0.86	0.16	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.032 sec-Butylbenzene 0.011 Isopropylbenzene 0.016 p-Isopropytoluene 0.0045 Napthalene 0.10 n-Propylbenzene 0.078
LAH-32	7/26 and 7/27/2007												
43	ND<0.20	0.003	0.062	0.081	0.38	2.4	0.091	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.013 sec-Butylbenzene 0.0051 Isopropylbenzene 0.0095 Napthalene 0.038 n-Propylbenzene 0.043
53	0.62	ND<0.0010	0.005	0.011	0.033	0.055	0.013	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.0038 Isopropylbenzene 0.0016 Napthalene 0.015 n-Propylbenzene 0.0081 1,2-Dichloroethane 0.0030 cis-1,2-Dichloroethene 0.0035
63	0.46	ND<0.0010	0.0039	0.0092	0.0285	0.044	0.01	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.0028 Isopropylbenzene 0.0012 Napthalene 0.0093 n-Propylbenzene 0.0064
74	3.2	ND<0.0010	0.013	0.051	0.174	0.8	0.086	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.021 sec-Butylbenzene 0.0074 Isopropylbenzene 0.0097 p-Isopropyltoluene 0.0023 Napthalene 0.069 n-Propylbenzene 0.049

Table 3
Summary of Soil Analytical Data - Large Auger Drilling Activities
Former Shell Service Station
25535 Hawthorne Blvd, Torrance

Sample Depth (feet)	TPH-g mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylenes mg/kg	1,2,4-Trimethylbenzene mg/kg	1,3,5-Trimethylbenzene mg/kg	DIPE mg/kg	ETBE mg/kg	MTBE mg/kg	TAME mg/kg	TBA mg/kg	Other Constituents mg/kg
LAH-33	**8/1/2007**												
32.5	0.99	ND<0.0010	ND<0.0010	0.017	0.0289	0.090	0.021	0.0032	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.0077 sec-Butylbenzene 0.0027 Isopropylbenzene 0.0031 Napthalene 0.028 n-Propylbenzene 0.015
LAH-34	**8/8/2007**												
32.5	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	0.0036	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
42.5	0.45	ND<0.0010	ND<0.0010	ND<0.0010	0.0058	0.0569	0.0050	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
52.5	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	0.0014	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
57.5	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
LAH-35	**7/13/2007**												
46	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	0.022	Chlorobenzene 0.0021 1,1-Dichloroethane 0.0013 1,2-Dichloroethane 0.0078 cis-1,2-Dichloroethene 0.010 Vinyl chloride 0.0023
LAH-36	**7/17/2007**												
45	0.40	ND<0.0010	0.0020	0.005	0.0115	0.025	0.0044	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.0022 Chlorobenzene 0.0012 1,1-Dichloroethane 0.0011 1,2-Dichloroethane 0.0038 cis-1,-Dichloroethene 0.0072 Napthalene 0.0087 n-Propylbenzene 0.0036
55	1.6	ND<0.0010	0.010	0.017	0.076	0.10	0.024	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	0.021	n-Butylbenzene 0.0080 sec-Butylbenzene 0.0024 1,1-Dichloroethane 0.0011 1,2-Dichloroethane 0.0044 cis-1,-Dichloroethene 0.0037 Isopropylbenzene 0.0026 p-Isopropyltoluene 0.0025 Napthalene 0.035 n-Propylbenzene 0.013 Trichloroethene 0.0012
65	1.5	ND<0.0010	0.0049	0.016	0.052	0.11	0.023	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.0091 sec-Butylbenzene 0.0025 Isopropylbenzene 0.0026 Napthalene 0.034 n-Propylbenzene 0.014
74	1.1	ND<0.0010	0.0063	0.016	0.058	0.081	0.019	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.0049 Isopropylbenzene 0.0023 Napthalene 0.018 n-Propylbenzene 0.012
LAH-37	**8/15/2007**												
43	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
LAH-38	**8/15/2007**												
43	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
LAH-39	**8/15/2007**												
45	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
LAH-40	**8/10/2007**												
30	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
LAH-41	**8/6/2007**												
35	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	0.016	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
45	0.33	ND<0.0010	ND<0.0010	ND<0.0010	0.021	0.040	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
55	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	
LAH-42	**8/7/2007**												
35	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	

Table 3
Summary of Soil Analytical Data - Large Auger Drilling Activities
Former Shell Service Station
25535 Hawthorne Blvd, Torrance

Sample Depth (feet)	TPH-g mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylenes mg/kg	1,2,4-Trimethylbenzene mg/kg	1,3,5-Trimethylbenzene mg/kg	DIPE mg/kg	ETBE mg/kg	MTBE mg/kg	TAME mg/kg	TBA mg/kg	Other Constituents mg/kg
LAH-43	**7/30/2007**												
30	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
LAH-44	**7/23/2007**												
30	0.51	ND<0.0010	ND<0.0010	0.0079	0.0281	0.038	0.011	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Butylbenzene 0.0024 Isopropylbenzene 0.0014 Napthalene 0.0066 n-Propylbenzene 0.0063
40	ND<0.20	ND<0.0010	ND<0.0010	0.0018	0.0072	0.0084	0.0024	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Propylbenzene 0.0013
50	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	0.0019	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	1,1-Dichloroethane 0.0011 1,2-Dichloroethane 0.0028 cis-1,2-Dichloroethene 0.0030 Vinyl chloride 0.0024
55	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	1,1-Dichloroethane 0.0011 1,2-Dichloroethane 0.0034 cis-1,2-Dichloroethene 0.0029 Trichloroethene 0.0015 Vinyl chloride 0.0029
LAH-45	**7/24/2007**												
34	ND<0.20	ND<0.0010	ND<0.0010	0.0014	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	n-Propylbenzene 0.0011
39	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
LAH-46	**7/31/2007**												
35	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	0.0037	ND<0.0010	0.0062	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	
40	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0010	ND<0.0020	ND<0.020	

Notes:
mg/kg - milligram per kilogram
ND - Not detected, see analytical reports for method detection limits
TPH-g analyzed using EPA Method 8015B
BTEX Compounds, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, and other constituents analyzed using EPA Method 8260B
LAH- Large Auger Hole
Centrum Analytical Laboratories, Inc. (7-9-07 through 8-1-07)
Jones Environmental, Inc. (8-6-07 through 8-15-07)

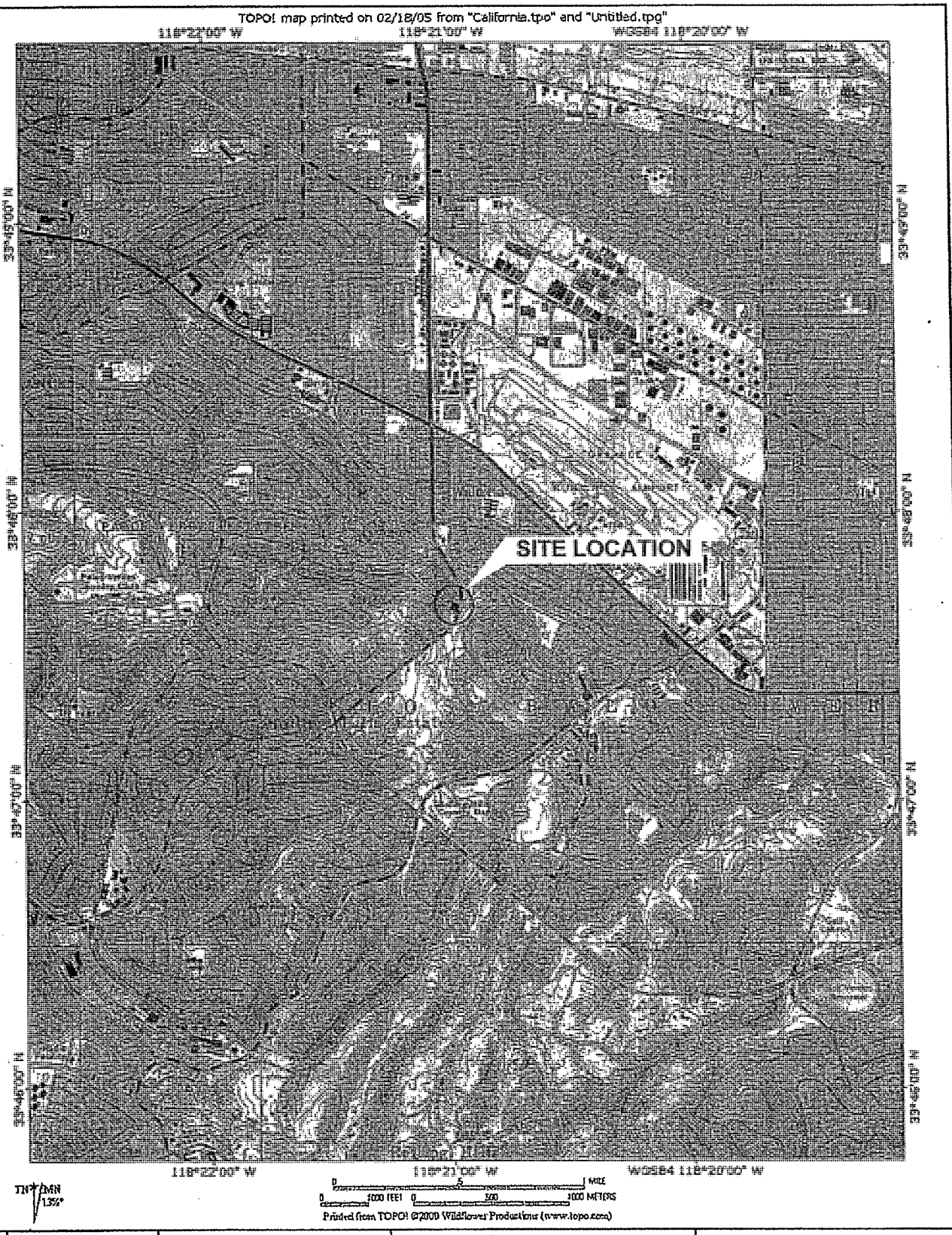
TABLE 4
Summary of Groundwater Analytical Data - Large Auger Drilling Activities
Former Shell Service Station
25535 Hawthorne Blvd, Torrance

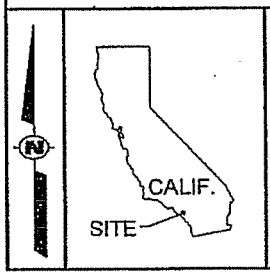
DATE	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-Benzene (ug/L)	Total Xylenes (ug/L)	1,2,4-Trimethylbenzenece (ug/L)	1,3,5 Trimethylbenzene (ug/L)	DIPE (ug/L)	ETBE (ug/L)	MTBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Other Constituents ug/L
LAH-22GW													
7/30/2007	ND<100	ND<0.50	ND<0.50	ND<0.50	ND<1.0	**0.77**	**0.73**	ND<1.0	ND<1.0	ND<1.0	ND<1.0	**22**	Acetone **98** 2-Butanone (MEK) **10** 1,2-Dichloroethane **1.5** cis-1,2-Dichloroethene **1.2** Napthalene **0.94** Vinyl chloride **0.65**
LAH-35GW													
7/13/2007	**150**	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	**3.6**	ND<1.0	ND<1.0	ND<1.0	**120**	Chlorobenzene **7.1** 1,4-Dichlorobenzene **0.66** 1,1-Dichloroethane **5.0** 1,2-Dichloroethane **30** cis-1,2-Dichloroethene **64** trans-1,2-Dichloroethene **3.5** 1,2-Dichloropropane **0.50** Trichloroethene **2.1** Vinyl chloride **13**

Notes:
GW = groundwater
ug/L = micrograms per liter
TPH-G = total petroleum hydrocarbons as gasoline analyzed using the EPA Method 5035
Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 5035
MTBE = methyl tertiary butyl ether analyzed using EPA Method 5035
TBA = tertiary butyl alcohol analyzed using EPA Method 5035
DIPE = diisopropyl ether analyzed using EPA Method 5035
ETBE = ethyl tertiary butyl ether analyzed using EPA Method 5035
TAME = tertiary amyl methyl ether analyzed using EPA Method 5035

FIGURES

DRAWN BY	CHECKED BY	APPROVED BY	PROJECT NUMBER
LUI 04/17/03			PA25535-1





DELTA CONSULTANTS

SHELL OIL PRODUCTS
FORMER SHELL SERVICE STATION
TORRANCE, CALIFORNIA

FIGURE 1
SITE LOCATION MAP

25535 HAWTHORNE BLVD.
TORRANCE, CALIFORNIA

PROJECT NUMBER	APPROVED BY	CHECKED BY	DRAWN BY
PA25535-1			LUI

HAWTHORNE BLVD.

BUSINESS OFFICE COMPLEX (25500 HAWTHORN BLVD.)

ROLLING HILLS ROAD

FIELD

PLANTER

PLANTER

FORMER STATION BUILDING

50'

75'

FORMER WASTE OIL TANK

FORMER DISPENSER (TYP)

PARKING

FORMER SHOPPING CENTER STRIP MALL

FORMER UST (TYP)

ESTIMATED EXTENT OF HYDROCARBON IMPACT SOIL AS IDENTIFIED BY KLEINFELDER

FENCE

N

W E

S

LEGEND

LAH-1 5' AUGER LOCATION

1 GRID NUMBER DESIGANTION

0 15 30 SCALE IN FEET

DELTA CONSULTANTS

SHELL OIL PRODUCTS US
FORMER SHELL SERVICE STATION
TORRANCE, CALIFORNIA

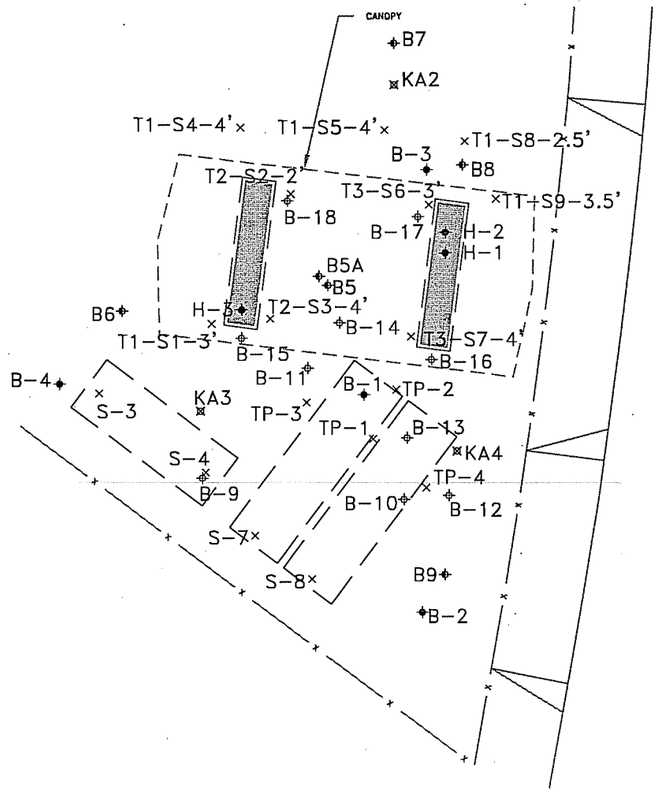
FIGURE 2

EXTENDED SITE MAP WITH AUGER EXCAVATION LOCATIONS

25535 HAWTHORNE BLVD.
TORRANCE, CALIFORNIA

Y:_Shell Sites\2\25535 Hawthorne\2007-09-xx_Large Auger Site Assessment Report\FIGURES(25535 HAWTHORNE)_LARGE AUGER SITE ASSESSMENT(1).dwg, 10/16/2007 8:33:54 AM

PROJECT NUMBER	PA255351X
APPROVED BY	
CHECKED BY	
DRAWN BY	J.F.F.



HAWTHORNE BLVD.

N

W E

S

LEGEND

B5 ⊕	SOIL BORING – REYNOLDS GROUP (2005)
KA1 ⊠	SOIL BORING – KLEINFELDER (2004)
T1-S1-3' ×	SOIL SAMPLE LOCATION – ENVIRONMENTAL SCIENCE & ENGINEERING, INC. (1996)
B-9 ⊕	SOIL BORING – ENVIRONMENTAL SCIENCE & ENGINEERING, INC. (1990–1996)
B-4 ⊕	SOIL BORING – HARDING LAWSON ASSOCIATES (1988–1990)
S-3 ×	SOIL SAMPLE LOCATION – HARDING LAWSON ASSOCIATES (1988–1990)
	FORMER UNDERGROUND STORAGE TANK
	FORMER DISPENSER ISLAND

0 10 20
SCALE IN FEET

DELTA CONSULTANTS

SHELL OIL PRODUCTS U.S.
FORMER SHELL SERVICE STATION
TORRANCE, CALIFORNIA

FIGURE 3
SITE PLAN SHOWING HISTORIC SOIL SAMPLING LOCATIONS
(PREVIOUS CONSULTANTS)
25535 HAWTHORNE BOULEVARD
TORRANCE, CALIFORNIA

Y:_Shell Sites\2\25535 Hawthorne\2007-09-xx_Large Auger Site Assessment Report\FIGURES(25535 HAWTHORNE)_LARGE AUGER SITE ASSESSMENT.dwg, 9/18/2007 8:28:48 AM

PROJECT NUMBER PA25535-1

APPROVED BY

CHECKED BY

DRAWN BY LUI

HAWTHORNE BLVD.

BUSINESS OFFICE COMPLEX (25500 HAWTHORN BLVD.)

ROLLING HILLS ROAD

N

W E

S

LEGEND

GR-1Ad15 — SOIL SAMPLE LOCATION AND DESIGANTION

SB-1 — SOIL BORING LOCATIONS AND DESIGNATION

① — GRID NUMBER DESIGANTION

GP-1 — GEOPROBE BORING LOCATIONS AND DESIGNATION

FIELD

GR-6Bd10
GR-6Fd20

GR-6Dd10
GR-6Hd20

PLANTER

PLANTER

FORMER STATION BUILDING

50'

75'

SB-5

SB-1

SB-2

SB-8

SB-3

SB-4

SB-6

GP-1

GP-2

GP-3

GP-4

GP-5

GP-6

GP-7

① ② ③ ④ ⑤ ⑥

FORMER WASTE OIL TANK

GR-6Ad10
GR-6Ed15

GR-5Bd10
GR-5Fd20

GR-5Ad10
GR-5Ed15

FORMER DISPENSER (TYP)

GR-5Dd10
GR-5Hd20

GR-4Bd20

GR-4Ad15

GR-4Dd20

GR-4Cd20

FORMER UST (TYP)

GR-3Cd20

GR-3Bd15

GR-3Ad15

PARKING

FORMER SHOPPING CENTER STRIP MALL

GR-1Ad15

GR-1Cd20

GR-1Bd15

GR-1Dd20

GR-1Ed20

GR-6Cd10
GR-6Gd20

GR-2Ad15

GR-2Bd20

GR-5Cd10
GR-5Gd20

ESTIMATED EXTENT OF HYDROCARBON IMPACT SOIL AS IDENTIFIED BY KLEINFELDER

FENCE

0 15 30
SCALE IN FEET

DELTA CONSULTANTS

SHELL OIL PRODUCTS US
FORMER SHELL SERVICE STATION
TORRANCE, CALIFORNIA

FIGURE 4A

DELTA HISTORIC SOIL SAMPLE LOCATION MAP

25535 HAWTHORNE BLVD.
TORRANCE, CALIFORNIA

Y:_Shell Sites\2\25535 Hawthorne\2007-09-xx_Large Auger Site Assessment Report\FIGURES(25535 HAWTHORNE)_LARGE AUGER SITE ASSESSMENT.dwg, 9/18/2007 9:16:56 AM

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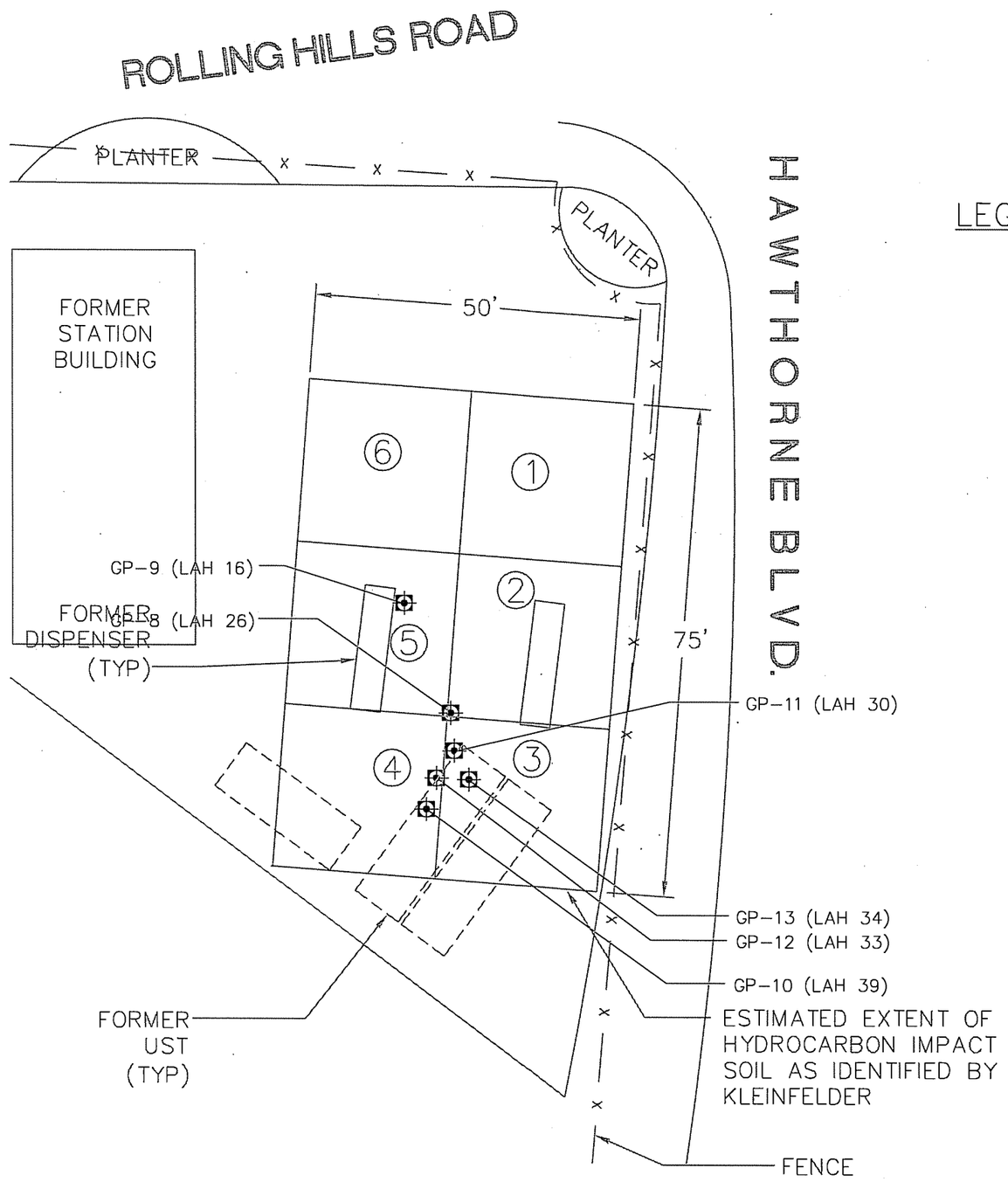
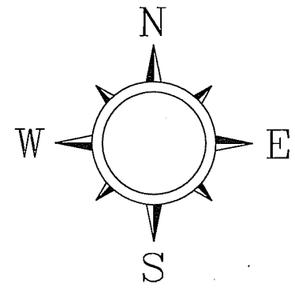
APPROVED BY	
CHECKED BY	
DRAWN BY	J.F.F.





LEGEND

(1) GRID NUMBER DESIGANTION

GP-8 ⊕ GEOPROBE BORING LOCATION AND DESIGNATION

0 10 20 SCALE IN FEET

DELTA CONSULTANTS

SHELL OIL PRODUCTS U.S.
FORMER SHELL SERVICE STATION
TORRANCE, CALIFORNIA

FIGURE 4B
DELTA HISTORIC SOIL SAMPLE LOCATION MAP

25535 HAWTHORNE BOULEVARD
TORRANCE, CALIFORNIA

Y:_Shell Sites\2\25535 Hawthorne\2007-09-xx_Large Auger Site Assessment Report\FIGURES(25535 HAWTHORNE)_LARGE AUGER SITE ASSESSMENT(1).dwg, 9/25/2007 8:17:08 AM

PROJECT NUMBER PA255351X

APPROVED BY

CHECKED BY

DRAWN BY J.F.F.

LAH-1 (7/13/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
30	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH-2 (7/18/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
35	ND<0.20	ND<0.0010	ND<0.0010	**0.0079**	ND<0.0010
40	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH-3 (7/25/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
30	ND<0.20	ND<0.0010	ND<0.0010	**0.0027**	ND<0.0010
35	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH-4 (7/19/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
30	ND<0.20	ND<0.0010	ND<0.0010	**0.0037**	ND<0.0010
35	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH-5 (7/20/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
35	ND<0.20	ND<0.0010	ND<0.0010	**0.0070**	ND<0.0010
45	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH-6 (7/16/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
30	ND<0.20	ND<0.0010	ND<0.0010	**0.0028**	ND<0.0010
35	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH-7 (7/30/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
30	ND<0.20	ND<0.0010	ND<0.0010	**0.0080**	ND<0.0010
35	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH-8 (8/8/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
30	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020

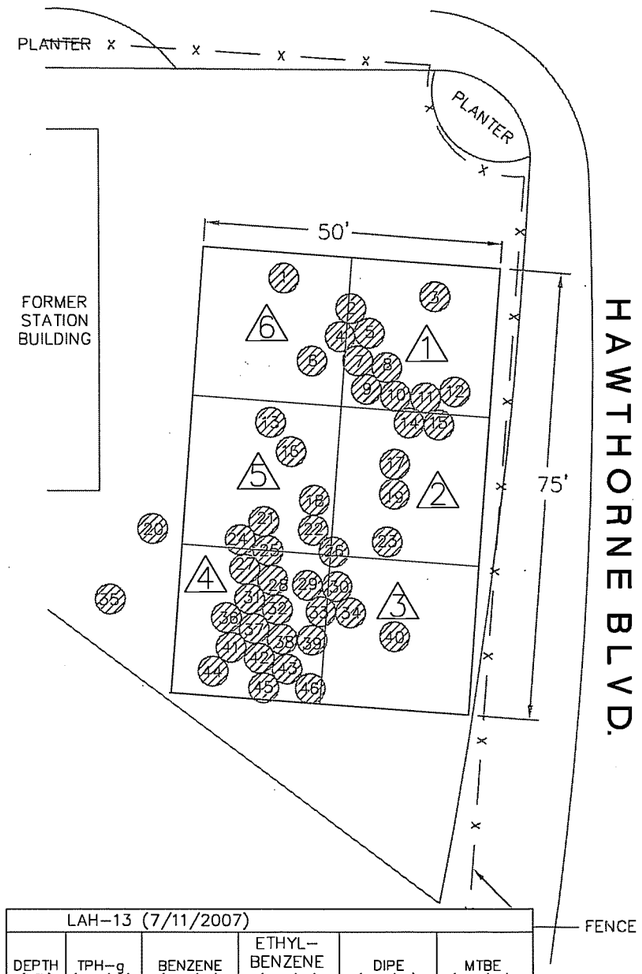
LAH-9 (8/1/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
30	**0.26**	ND<0.0010	**0.0041**	**0.0046**	ND<0.0010
40	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH-10 (8/13/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
30	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020

LAH-11 (7/26/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
50	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010
55	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010
60	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010
74	ND<0.20	ND<0.0010	**0.0011**	ND<0.0020	ND<0.0010

LAH-12 (8/9/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
30	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020

ROLLING HILLS ROAD



LAH-13 (7/11/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
30	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010
35	ND<0.20	ND<0.0010	ND<0.0010	**0.0023**	ND<0.0010
40	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH-14 (8/6/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
50	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020

LAH-15 (8/7/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
50	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020

LAH-16 (7/12/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
32	ND<0.20	ND<0.0010	ND<0.0010	**0.0029**	ND<0.0010
39	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH-17 (7/23/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
35	ND<0.20	ND<0.0010	ND<0.0010	**0.0029**	ND<0.0010
40	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010
45	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH-18 (7/18-19/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
60	ND<0.20	ND<0.0010	**0.0011**	ND<0.0020	ND<0.0010
65	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010
70	ND<0.20	ND<0.0010	**0.0017**	ND<0.0020	ND<0.0010
74	ND<0.20	ND<0.0010	**0.0016**	ND<0.0020	ND<0.0010

LAH-19 (7/24/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
30	ND<0.20	ND<0.0010	ND<0.0010	**0.0080**	**0.0014**
35	ND<0.20	ND<0.0010	ND<0.0010	**0.011**	**0.0020**
45	ND<0.20	ND<0.0010	ND<0.0010	**0.0035**	ND<0.0010
55	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH-20 (7/20/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
35	ND<0.20	ND<0.0010	ND<0.0010	**0.0020**	ND<0.0010
40	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH-21 (7/16/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
43	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH-22 (7/27/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
30	**6.2**	**0.0049**	**0.14**	**0.002**	ND<0.0010
40	**0.83**	**0.0015**	**0.023**	ND<0.0020	ND<0.0010
50	ND<0.20	ND<0.0010	**0.0037**	ND<0.0020	ND<0.0010

LAH-23 (7/11/2007)					
DEPTH (FT.)	TPH-g (mg/kg)	BENZENE (mg/kg)	ETHYL-BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
30	**0.29**	ND<0.0010	**0.0012**	ND<0.0020	ND<0.0010
40	**0.42**	ND<0.0010	**0.0020**	**0.0082**	**0.0016**
50	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

N W E S

LEGEND

LAH-1	5' AUGER LOCATION
1	GRID NUMBER DESIGANTION
TPH-g	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
MTBE	METHYL TERT-BUTYL ETHER
DIPE	DI-ISOPROPYL ETHER
ND<	NOT DETECTED ABOVE LIMIT NOTED
mg/kg	MILLIGRAMS PER KILOGRAM

0 25 SCALE IN FEET

DELTA CONSULTANTS

SHELL OIL PRODUCTS US
FORMER SHELL SERVICE STATION
TORRANCE, CALIFORNIA

FIGURE 5A
HYDROCARBON DISTRIBUTION IN SOIL MAP
LARGE AUGER HOLES 1 THROUGH 23
25535 HAWTHORNE BOULEVARD
TORRANCE, CALIFORNIA

Y:_Shell Sites\2\25535 Hawthorne\2007-09-xx_Large Auger Site Assessment Report\FIGURES(25535 HAWTHORNE)_LARGE AUGER SITE ASSESSMENT.dwg, 9/18/2007 8:29:22 AM

PROJECT NUMBER PA255351X

APPROVED BY

CHECKED BY

DRAWN BY J.F.F.

LAH–24 (7/12/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
30	ND<0.20	ND<0.0010	**0.0026**	**0.0030**	ND<0.0010
35	**0.24**	ND<0.0010	**0.0064**	**0.0088**	ND<0.0010
42	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH–25 (7/18–19/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
30	**3.7**	**0.0015**	**0.067**	**0.0034**	ND<0.0010
40	**0.68**	ND<0.0010	**0.0086**	ND<0.0020	ND<0.0010
50	**0.33**	ND<0.0010	**0.0041**	ND<0.0020	ND<0.0010
60	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010
74	**0.52**	ND<0.0010	**0.0093**	ND<0.0020	ND<0.0010

LAH–26 (7/25/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
32	**0.93**	**0.0036**	**0.038**	**0.0032**	ND<0.0010
42	**0.40**	**0.0020**	**0.012**	**0.0041**	**0.0011**
52	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH–27 (8/9/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
41	**0.89**	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020
51	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020

LAH–28 (8/10/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
41	**1.23**	ND<0.0010	**0.0014**	ND<0.0020	ND<0.0020
51	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020
56	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020

LAH–29 (8/7/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
50	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020

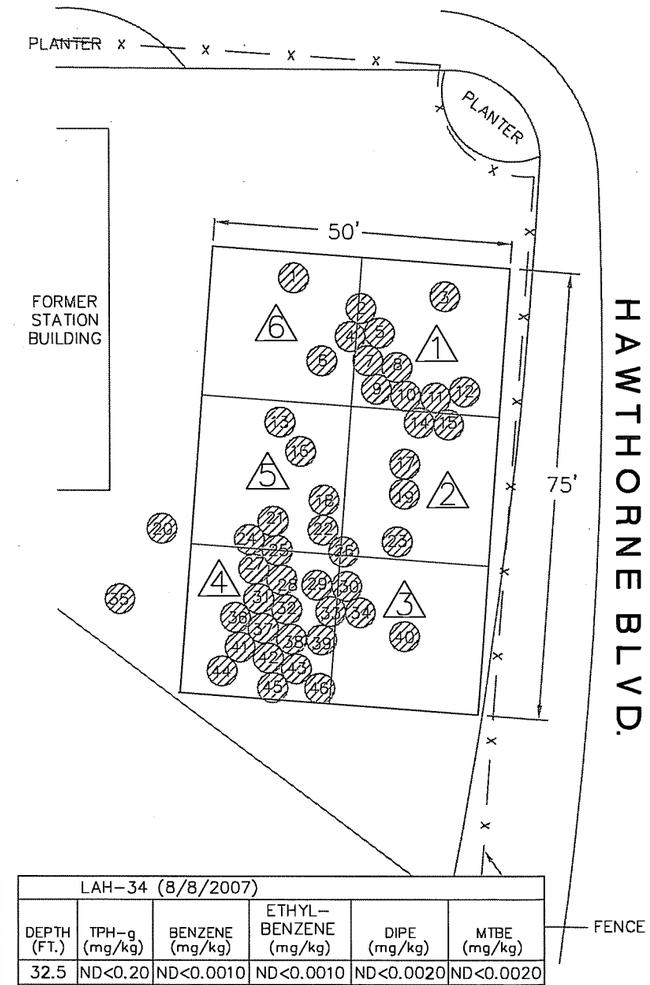
LAH–30 (7/10/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
32.5	**1.2**	ND<0.0010	**0.026**	**0.0027**	ND<0.0010
42.5	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010
47.5	ND<0.20	ND<0.0010	**0.0018**	ND<0.0020	ND<0.0010
32.5	**0.57**	ND<0.0010	**0.0094**	ND<0.0020	ND<0.0010
42.5	**1.1**	ND<0.0010	**0.019**	ND<0.0020	ND<0.0010
47.5	**0.21**	ND<0.0010	**0.0031**	ND<0.0020	ND<0.0010

LAH–31 (7/19/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
30	**190**	**0.0050**	**1.6**	ND<0.0020	ND<0.0010
40	**20**	**0.0013**	**0.16**	ND<0.0020	ND<0.0010
50	**5.3**	**0.0011**	**0.079**	ND<0.0020	ND<0.0010
60	**11**	**0.002**	**0.13**	ND<0.0020	ND<0.0010
75	**3.6**	**0.0013**	**0.058**	ND<0.0020	ND<0.0010
77	**5.4**	**0.0022**	**0.092**	ND<0.0020	ND<0.0010

LAH–32 (7/26–27/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
43	ND<0.20	**0.003**	**0.081**	ND<0.0020	ND<0.0010
53	**0.62**	ND<0.0010	**0.011**	ND<0.0020	ND<0.0010
63	**0.46**	ND<0.0010	**0.0092**	ND<0.0020	ND<0.0010
74	**3.2**	ND<0.0010	**0.051**	ND<0.0020	ND<0.0010

LAH–33 (8/1/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
32.5	**0.99**	ND<0.0010	**0.017**	**0.0032**	ND<0.0010

ROLLING HILLS ROAD



LAH–34 (8/8/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
32.5	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020
42.5	**0.45**	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020
52.5	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020
57.5	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020

LAH–35 (7/13/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
46	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH–36 (7/17/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
45	**0.40**	ND<0.0010	**0.005**	ND<0.0020	ND<0.0010
55	**1.6**	ND<0.0010	**0.017**	ND<0.0020	ND<0.0010
65	**1.5**	ND<0.0010	**0.016**	ND<0.0020	ND<0.0010
74	**1.1**	ND<0.0010	**0.016**	ND<0.0020	ND<0.0010

LAH–37 (8/15/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
43	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020

LAH–38 (8/15/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
43	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020

LAH–39 (8/15/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
45	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020

LAH–40 (8/10/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
30	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020

LAH–41 (8/6/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
35	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020
45	**0.33**	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020
55	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020

LAH–42 (8/7/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
35	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020

LAH–43 (7/30/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
30	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH–44 (7/23/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
45	**0.51**	ND<0.0010	**0.0079**	ND<0.0020	ND<0.0010
55	ND<0.20	ND<0.0010	**0.0018**	ND<0.0020	ND<0.0010
65	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010
74	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH–45 (7/24/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
34	ND<0.20	ND<0.0010	**0.0014**	ND<0.0020	ND<0.0010
39	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

LAH–46 (7/30/2007)					
DEPTH (FT.)	TPH–g (mg/kg)	BENZENE (mg/kg)	ETHYL–BENZENE (mg/kg)	DIPE (mg/kg)	MTBE (mg/kg)
35	ND<0.20	ND<0.0010	ND<0.0010	**0.0062**	ND<0.0010
40	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010

N W E S

LEGEND

LAH–1	5' AUGER LOCATION
1	GRID NUMBER DESIGANTION
TPH–g	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
MTBE	METHYL TERT–BUTYL ETHER
DIPE	DI–ISOPROPYL ETHER
ND<	NOT DETECTED ABOVE LIMIT NOTED
mg/kg	MILLIGRAMS PER KILOGRAM

0 25 SCALE IN FEET

DELTA CONSULTANTS

SHELL OIL PRODUCTS US
FORMER SHELL SERVICE STATION
TORRANCE, CALIFORNIA

FIGURE 5B
HYDROCARBON DISTRIBUTION IN SOIL MAP
LARGE AUGER HOLES 24 THROUGH 46
25535 HAWTHORNE BOULEVARD
TORRANCE, CALIFORNIA

Y:_Shell Sites\2\25535 Hawthorne\2007-09-xx_Large Auger Site Assessment Report\FIGURES(25535 HAWTHORNE)_LARGE AUGER SITE ASSESSMENT.dwg, 9/18/2007 8:29:35 AM

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ROLLING HILLS ROAD

LAH–22GW (7/30/2007)					
TPH–g µg/L	BENZENE µg/L	1,2,4 TRIMETHYL–BENZENE µg/L	1,3,5 TRIMETHYL–BENZENE µg/L	DIPE µg/L	TBA µg/L
ND<100	ND<0.50	0.77	0.73	ND<1.0	22

PLANTER

PLANTER

FORMER STATION BUILDING

50'

75'

FENCE

LAH–35GW (7/13/2007)					
TPH–g µg/L	BENZENE µg/L	1,2,4 TRIMETHYL–BENZENE µg/L	1,3,5 TRIMETHYL–BENZENE µg/L	DIPE µg/L	TBA µg/L
150	ND<0.50	ND<0.50	ND<0.50	3.6	120

0 10 20 SCALE IN FEET

N W E S

LEGEND

LAH–1 5' AUGER LOCATION

1 GRID NUMBER DESIGANTION

TPH–g TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

TBA TERTIARY BUTYL ALCOHOL

DIPE DI–ISOPROPYL ETHER

ND< NOT DETECTED ABOVE LIMIT NOTED

µg/L MICROGRAMS PER LITER

HAWTHORNE BLVD.

DELTA CONSULTANTS

SHELL OIL PRODUCTS U.S.
FORMER SHELL SERVICE STATION
TORRANCE, CALIFORNIA

FIGURE 6
HYDROCARBON DISTRIBUTION IN GROUNDWATER MAP

25535 HAWTHORNE BOULEVARD
TORRANCE, CALIFORNIA

Y:_Shell Sites\2\25535 Hawthorne\2007-09-xx_Large Auger Site Assessment Report\FIGURES(25535 HAWTHORNE)_LARGE AUGER SITE ASSESSMENT.dwg, 9/18/2007 8:29:46 AM

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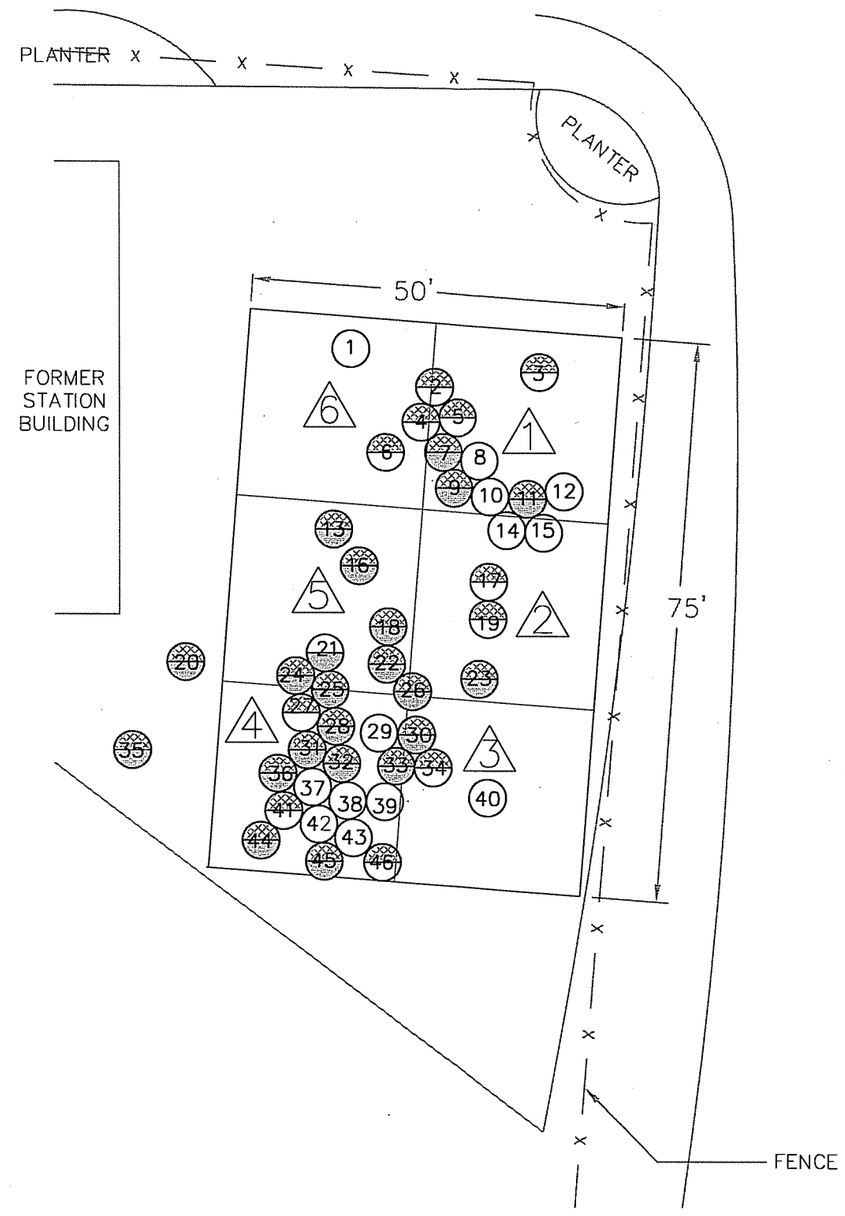
J.F.F.			PA255351X

ROLLING HILLS ROAD



HAWTHORNE BLVD.

N
W E
S

LEGEND

- GRID NUMBER DESIGANTION
- LAH–5 — PETROLEUM DERIVED CONSTITUENTS DETECTED IN SOIL SAMPLES COLLECTED
- LAH–21 — NON–PETROLEUM DERIVED CONSTITUENTS DETECTED IN SOIL SAMPLES COLLECTED
- LAH–1 — SOIL SAMPLE LOCATIONS WITH NO DETECTABLE CONSTITUENTS OF CONCERN
- LAH–24 — PETROLEUM DERIVED AND NON PETROLEUM DERIVED CONSTITUENTS DETECTED IN SOIL SAMPLES COLLECTED

NOTE: ALL LOCATIONS ARE 5' AUGER BOREHOLES

0 10 20
SCALE IN FEET

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SHELL OIL PRODUCTS U.S.
FORMER SHELL SERVICE STATION
TORRANCE, CALIFORNIA

FIGURE 7
SUMMARY OF PETROLEUM AND NON-PETROLEUM DERIVED CONSTITUENTS
25535 HAWTHORNE BOULEVARD
TORRANCE, CALIFORNIA

Y:_Shell Sites\2\25535 Hawthorne\2007-09-xx_Large Auger Site Assessment Report\FIGURES (25535 HAWTHORNE)_SUMMARY OF PETROLEUM AND NON-PETROLEUM HYDROCARBON-CONSITTUENTS.dwg, 10/12/2007 10:52:47 AM

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FORMER SHELL
SERVICE STATION

25535 HAWTHORNE BLVD.
TORRANCE, CALIFORNIA

M49A						
Date	TPH-g (ug/L)	TPH-d (ug/L)	TPH-o (ug/L)	Vinyl Chloride (ug/L)	Chlorobenzene (ug/L)	1,4-Dioxane (ug/L)
4/18/2007	ND<0.10	0.52	ND<0.50	20	ND<10	190

P410						
Date	TPH-g (ug/L)	TPH-d (ug/L)	TPH-o (ug/L)	Vinyl Chloride (ug/L)	Chlorobenzene (ug/L)	1,4-Dioxane (ug/L)
4/19/2007	ND<0.10	0.39	ND<0.50	86	35	410

P411						
Date	TPH-g (ug/L)	TPH-d (ug/L)	TPH-o (ug/L)	Vinyl Chloride (ug/L)	Chlorobenzene (ug/L)	1,4-Dioxane (ug/L)
4/11/2007	ND<0.10	1.3	1.3	ND<50	ND<50	130

M26A, M63B, M67B, M51B, PV3, M64B, M66B, M49A, M07A/M07B, M30B, M33B, M35B, P411, P410, M06A/M06B, SW8, SW9, M71B, M36A, M37A, M53B, M72B, M70B, M62B, M69B, M38A, M39A, M58B, M60B, M56B

Ernie Howlett Park

Main Site

South Coast Botanic Gardens

HAWTHORNE BOULEVARD

PALOS VERDES DRIVE NORTH

CRENSHAW BOULEVARD

ROLLING HILLS ROAD

Explanation

- Downgradient well along Crenshaw Boulevard
- Downgradient well along Hawthorne Boulevard
- Northeast boundary well
- Onsite well along Crenshaw Boulevard
- Onsite well along Hawthorne Boulevard
- Upgradient well
- Street
- Subsurface barrier
- Property boundary

REFERENCE: Overlain concentration and site designations from original Figure 2, "Palos Verdes Landfill—Operation and Maintenance, Quarterly Summary Report—Second Quarter 2007", dated July 30, 2007, Prepared by Geomatrix, LOCATION OF GROUNDWATER MONITORING WELLS, PALOS VERDES LANDFILL, LOS ANGELES COUNTY, CALIFORNIA

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SHELL OIL PRODUCTS US
FORMER SHELL SERVICE STATION
TORRANCE, CALIFORNIA

FIGURE 8
PALOS VERDES LANDFILL
GROUNDWATER MONITORING
WELL LOCATIONS AND SITE VICNITY MAP
PALOS VERDES LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Y:_Shell Sites\2\25535 Hawthorne\2007-09-xx_Large Auger Site Assessment Report\FIGURES (25535 HAWTHORNE)_PV LANDFILL VICINITY MAP.dwg, 10/12/2007 9:43:48 AM

APPENDIX A

AGENCY LETTERS

CITY OF
TORRANCE

FIRE DEPARTMENT
FIRE PREVENTION DIVISION

December 21, 2005

Ms. Carolyn 'Lyn' P. Bloomfield, Ph.D.
Kleinfelder, Incorporated
620 West Sixteenth Street, Suite F
Long Beach, CA 90813

SUBJECT: **Site Remediation Workplan for Former Shell Station, 25535 Hawthorne Boulevard, Torrance, CA 90505 (Kleinfelder Job No. 46817)**

Dear Ms. Bloomfield:

The Torrance Fire Department (TFD) has reviewed the site assessment workplan for the above subject site. There are no objections to the workplan provided the following conditions are met:

1. Kleinfelder, Inc., shall obtain all necessary permits from the appropriate state/local governmental agencies as required by law prior to commencing the subsurface soil investigation and remedial action workplan. All contractors shall comply with the requirements as listed in the Contractor Check List (see attachment).

2. All work must be performed by or under the direction of a registered geologist, certified engineering geologist, or registered civil engineer. A statement is required in the report that the registered professional in direct responsible charge actually supervised or personally conducted all the work associated with the project. All technical submittals must contain a wet ink signature and seal by one of the registered professionals.

3. Technical reports shall be submitted using Local Oversight Program Public works format under penalty of perjury (see "Guidelines for Report Submittals" published by the Los Angeles County Department of Public Works). All technical reports for submittal shall be signed and stamped by either a professional engineer, a registered geologist or certified engineering geologist. In addition, ***all reports must include a cross sectional plot showing depth (y-axis) versus contaminant concentration, soil lithology, and estimated plume configuration (x-axis). Also, you must submit a scaled map showing the locations of any production wells and surface water bodies within one-mile radius of the subject. The production well information must include information on well owner, identification number, depth to groundwater and status of the well.***

4. A specific health and safety plan for the field work at the subject site must be present on site.

5. The TFD shall be notified 72 hours prior to start of work.

6. Laboratory data must be reported using the L.A. Regional Water Quality Control Board Laboratory Report forms or equivalent. All QA/QC controls must be reported. The laboratory/mobile laboratory shall show it is state certified.

7. Soil Samples: All soil samples shall be obtained using EPA Method 5035. Soil samples shall be analyzed for the following chemical constituents: for total petroleum hydrocarbons as gasoline with EPA Method 8015M (gasoline); VOC's using EPA Method 8260B. The testing for oxygenates shall include the following: MTBE, TBA, DIPE, ETBE, and TAME All analytical data must be reported by a California certified laboratory. In addition, soil samples in waste oil tank areas shall analyzed for heavy metals. All analytical data must be reported by a California certified laboratory.

8. The TFD, in reviewing this site assessment workplan, makes no endorsement of such method (implied or otherwise) nor accepts any liability in its use.

9. Clean up goal: .The TFD recommends that all contamination shall be remediated to natural pollutant background levels unless technologically or economically infeasible.

10. Implementation of remedial action plan to begin within 60 days from date of issuance of approval letter.

Finally, to cover the costs of remedial oversight of petroleum contaminated sites (Fee Resolution 98-136), all such sites will be billed at a rate of $87.00 per hour.

If you have any questions, please feel free to contact me at (310) 618-2973.

TORRANCE FIRE DEPARTMENT
Richard V. Bongard, Fire Chief

Ken C. Carter, Battalion Chief
Fire Marshal

Kenneth Lew
Hazardous Materials Specialist

cc:

Mr. Roger Green, Sunrise Development, Inc., 25132 Via Terracina,
Laguna Niguel, CA 92677

Mr. Tom Fitzpatrick, 4111 Paseo De Las Tortugas, Torrance, CA 90505

enclosure: 1. contractor checklist

S:\data\remedial\siteass\25535 Hawthorne Blvd.doc

CITY OF
TORRANCE

FIRE DEPARTMENT
FIRE PREVENTION DIVISION

RECEIVED
AUG 04 2007
BY:

August 2, 2007

Gretchen Tagavilla
Project Associate
DELTA CONSULTANTS
911 S. Primrose Avenue, Suite K
Monrovia, CA 91016

G. Scott Williams
Seltzer | Caplan | McMahon | Vitek
2100 Symphony Towers
750 B Street
San Diego, California 92101

Roger Green
Development Officer,
Sunrise Senior Living, Inc.
4041 MacArthur Blvd., Suite 575
Newport Beach, CA 92660

Mr. Dave Bacharowski
LARWQCB
320 West 4th Street, Suite 200
Los Angeles, CA 90013

Mr. Randy Orlowski
Shell Oil Products
20945 S. Wilmington Avenue;
Carson, CA 90810

SUBJECT: Former Shell Service Station, 25535 Hawthorne Blvd., Torrance, CA 90505

This office has reviewed the groundwater data submitted for the subject site. The Torrance Fire Department is: ☐ returning ; ☑ forwarding; ☐ cannot review the report for the following reasons:

☐ The exact extent of contamination has not been defined.

☐ The proposed remedial action is inadequate.

☑ Review of groundwater data indicates there is groundwater contamination at this site. Pursuant to Section 25297(b) of the California Health and Safety Code, we are referring the matter to the Los Angeles Regional Water Quality Control Board (LARWQCB) for remedial oversight. For further information regarding the Board's requirements, please contact: Mr. David Barcharowski, LARWQCB, 320 West 4th Street, Suite 200, Los Angeles, CA 90013, (213) 576-6620. All future correspondence shall be directed to the Board with a copy sent to this office.

☐ Other:

If you have any questions concerning this matter, please contact the undersigned at (310) 618-2973.

TORRANCE FIRE DEPARTMENT
Richard V. Bongard, Fire Chief

Ken C. Carter, Battalion Chief
Fire Marshal

Kenneth Lew
Hazardous Materials Specialist

California Regional Water Quality Control Board
Los Angeles Region

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.waterboards.ca.gov/losangeles

Linda S. Adams
Cal/EPA Secretary

Arnold Schwarzenegge
Governor

August 15, 2007

To: All Interested Parties

UNDERGROUND STORAGE TANKS PROGRAM – UPDATED GUIDELINES FOR ELECTRONIC REPORT SUBMITTAL

In 2005, the State Water Resource Control Board (State Board) adopted regulations that required electronic submittal of information (ESI) for all underground storage tank sites. The Los Angeles Regional Water Quality Control Board (Regional Board)'s Underground Storage Tank (UST) Program hereby requires all parties who are under the directives of the Program to submit all reports (including groundwater monitoring report, workplan, remedial action plan, and progress report) in electronic format. The routine paper copies of the reports are no longer necessary. The following guidelines are to be used for submitting the electronic reports.

I. Reporting to Geotracker Database

All reports must be electronically uploaded to the State Geotracker database. Please check out the following link for more information:

http://www.waterboards.ca.gov/ust/cleanup/electronic_reporting/index.html

II. Electronic Format and Contents

Reports submitted to the Regional Board must contain the following information at a minimum: 1) cover page with title and date, 2) table of contents, 3) project summary, 4) signature page, 5) figures and maps [i.e., area location and site plan, groundwater elevation contours, soil boring and monitoring well locations, analytical data and isoconcentration plots, across-section maps, free product, etc.], 6) data summary tables [analytical data, groundwater elevations, depth to water, well completion table, etc.], 7) contaminant mass removal summary, if applicable, and 8) attachments and other relevant information [e.g., boring logs, analytical laboratory report, chain of custody, waste disposal manifest, health and safety plan, etc]. However, hard copies of oversized documents, such as maps or as-built prints, are required. The electronic reports shall be converted into a Portable Deliverable Format (PDF), readable by the *Acrobat Reader (most updated version)*, and copied onto a CD-ROM for submittal. Separate hard copies of the whole report are not necessary.

III. CD-ROM

The submittal shall have a secured page or pouch to contain the CD-ROM. The CD-ROM submittal shall contain a CD-ROM case and both CD-ROM and the case shall be labeled with

site address, case number, report title, and date of the report. Submit one CD-ROM per site. The latest CD-ROM shall contain all previously submitted electronic files.

IV. Limitations

This guideline is **not** a substitute of the State Board's Electronic Data Format (EDF) submittal to the Geotracker Database. The electronic report format discussed in this letter is only pertinent to changing the format from hard copy reports that have been routinely required by this Regional Board to the electronic format, and does not fulfill any and all other requirements. Regional Board staff reserve the right to re-evaluate the need related to electronic reporting and to require submittal of hard copy report on a case by case basis.

V. Public Access to Electronic Reports

The electronic reports submitted to the Regional Board are considered public information. Regional Board staff will provide and make electronic equipment (CD-ROM reader/writer) available in our File Review Room to facilitate the public access and copying of electronic reports on CD. The standard Regional Board File Review procedures are applicable to review of electronic reports.

If you have any questions regarding this matter, please contact Dr. Yue Rong at (213) 576-6710 or at yrong@waterboards.ca.gov.

Sincerely,

Deborah J. Smith
Interim Executive Officer

Cc: James Giannopoulos (jgiannopoulos@waterboards.ca.gov)
Kevin Graves (kgraves@waterboards.ca.gov)
George Lockwood (GLockwood@waterboards.ca.gov)
Stave Linder (linder.steven@epa.gov)
Matt Small (small.matthew@epa.gov)
Local Implementation Agencies (LIA)/Local Oversight Agency (LOP)

California Regional Water Quality Control Board
Los Angeles Region

Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

Linda S. Adams
Agency Secretary

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.waterboards.ca.gov/losangeles

Arnold Schwarzenegger
Governor

August 17, 2007

Mr. Randy Orlowski
Shell Oil Products
20945 South Wilmington Ave.
Carson, CA 90810

Underground Storage Tank Program – Request for Additional Information
Former Shell Service Station
25535 Hawthorne Boulevard, Torrance (Case No. 902740025A) (Global ID T0603723424) (Priority C-1 Site)

Dear Mr. Orlowski:

On August 2, 2007, the City of Torrance Fire Department transmitted this case to this agency due to concerns of groundwater impacts from the subject site. The California Regional Water Quality Control Board, Los Angeles Region, is the public agency with primary responsibility for the protection of ground and surface water quality for all beneficial uses within the Los Angeles and Ventura counties. As such, we are the lead regulatory agency for overseeing corrective action (assessment and/or monitoring activities) and cleanup of releases from leaking underground storage tank (UST) systems at the subject site.

In the transmittal package, we received a CD containing the files and documents listed on the enclosed page.

To facilitate our review, we would appreciate that you provide the following information regarding the referenced site that has not already been submitted (see enclosure). As described in our letter entitled "Updated Guidelines for Electronic Report Submittal," dated August 15, 2007 (see enclosure), you are required to submit reports in electronic format but routine paper copies of reports are no longer required:

1. Facility contact person's name, phone number, and email address, if any;
2. Facility mailing address;
3. Contaminant release information (e.g., copy of Site Assessment Report);
4. Tank removal and/or repair information (include tank size and contents, removal and/or repair date);
5. Tank disposal documentation;
6. Copies of all previous site assessment and/or remediation report(s), if any;
7. Reports of all previous soil and groundwater sample analytical results, if any;
8. Name, telephone number, and email address of your environmental consultant, if any;
9. Copies of all correspondence regarding environmental assessment for the subject site;
10. Property Owner Information

Pursuant to the California Health and Safety Code Section 25296.20(a) and Division 7 of the Porter Cologne Water Quality Control Act under AB 681, the Regional Board is required

to notify all current fee title holders for the subject site or sites impacted by releases from underground storage tanks prior to considering corrective action and cleanup or case closure. If corrective action data from the site indicate that release(s) from the underground storage tank systems have impacted offsite property, we are also required to notify offsite property owners. Therefore, you are required to provide to this Regional Board the name, mailing address, and phone number for any record fee title holders for the subject site and any offsite property(ies) impacted by releases from the subject site, together with a copy of county record of current ownership (grant trust deed), available from the County Recorder's Office, for each property affected. Or as an alternative, you can complete this Regional Board's "Certification Declaration for Compliance with Fee Title Holder Notification Requirements," for each site (available at http://www.waterboards.ca.gov/losangeles/html/programs/ust/AB681_form.pdf).

If this information has been provided in the past, you need not provide it again. Copies of future technical reports shall also be sent directly to the property owner of the site and to any other property owner(s) impacted by contamination from the site. You are also responsible to provide new contact information if the property owner(s) changes. The new owner shall comply with the requirement stated above.

The above requested information is due to this Regional Board, no later than **September 17, 2007.**

11. Regulatory Requirement for Electronic Submission of Laboratory Data to the State Geotracker Internet Database

On September 30, 2004, the State Water Resources Control Board (SWRCB) adopted the resolution to revise regulations in Chapter 30, Division 3 of Title 23 of California Code of Regulations (CCR), which requires persons to ensure electronic submission of laboratory analytical data (i.e., soil or water chemical analysis) and locational data (i.e., location and elevation of groundwater monitoring wells), via the Internet to the SWRCB's GeoTracker database. The regulations and other background information are available at http://geotracker.waterboards.ca.gov.

In accordance with the above regulations, you are required to submit all laboratory data over the Internet in the Electronic Deliverable Format to the SWRCB's GeoTracker database for any soil and/or groundwater samples obtained after September 1, 2001. This would include any sampling completed for underground storage tank system removal, site assessment activities, periodic groundwater monitoring, and post cleanup verification sampling. Per the same regulations, you are also required to submit locational data for all groundwater monitoring wells (i.e., latitude, longitude, and elevation survey data) together with groundwater information (i.e., elevation, depth to free product, monitoring well status, etc.) and a site map commencing January 1, 2002. A complete copy of all clean-up and monitoring reports since January 1, 2005, must also be submitted to GeoTracker, while hard copy paper reports for the main contents are still required per Regional Board guidelines available at http://www.waterboards.ca.gov/losangeles/html/programs/ust/04_0621_e-QMRGuideline6-04.pdf.

If you have any questions regarding this matter, please contact Mr. Dave Bjostad at (213) 576-6713 or dbjostad@waterboards.ca.gov, or contact me at (213) 576-6715 or wtong@waterboards.ca.gov.

Sincerely,

Original signed by

WEIXING TONG, Ph.D., P.G., C.H.G., C.E.G
Senior Engineering Geologist
Chief of Underground Tanks/Los Angeles Coastal Unit

Enclosures:

1) List of Files on CD received by the Regional Board on August 8, 2007
2) Updated Guidelines for Electronic Report Submittal, dated August 15, 2007
3) Leaking UST Program Certification Declaration for Compliance with Fee Title Holder Notification Requirements (Assembly Bill 681)

cc: Ms. Yvonne Shanks, State Water Resources Control Board, UST Cleanup Fund
Mr. Kenneth Lew, Torrance Fire Department
Ms. Nancy Matsumoto, Water Replenishment District of Southern California
Mr. Roger Green, Sunrise Senior Living
Ms. Gretchen Tagavilla, Delta

APPENDIX B

HISTORICAL SOIL ANALYTICAL DATA (PREVIOUS CONSULTANTS)

Table 1

RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES
HISTORICAL SUMMARY AND STATISTICAL EVALUATION
Former Shell Service Station
25535 Hawthorne Boulevard
Torrance, California

Sample ID	Consultant	Sample Location	Sample Depth (feet)	Date	TPH-G (8015M/ DHS LUFT) (mg/kg)	Benzene (8020) (mg/kg)	Toluene (8020) (mg/kg)	Ethyl-benzene (8020) (mg/kg)	Xylenes (8020) (mg/kg)	MTBE (8020) (mg/kg)	MTBE (8260B) (mg/kg)	TBA (8026B) (mg/kg)	DIPE (8026B) (mg/kg)	ETBE (8026B) (mg/kg)	TAME (8026B) (mg/kg)	n-Butyl-benzene (8260B) (mg/kg)	sec-Butyl-benzene (8260B) (mg/kg)	Isopropyl-benzene (8260B) (mg/kg)	4-Isopropyl-toluene (8260B) (mg/kg)	Naphthalene (8260B) (mg/kg)	n-Propyl-benzene (8260B) (mg/kg)	1,2,4-Trimethyl-benzene (8260B) (mg/kg)	1,3,5-Trimethyl-benzene (8260B) (mg/kg)	1,2 - DCA (8260B) (mg/kg)	cis 1,2-DCE (8260B) (mg/kg)
KA1-10	Kleinfelder	SE of former waste oil tank	10	9/10/2004	0.05	0.0025	0.0025	0.0025	0.005	0.0125	0.0025	0.025	0.005	0.005	0.005	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	--	--
KA1-15	Kleinfelder	SE of former waste oil tank	15	9/10/2004	0.05	0.0025	0.0025	0.0025	0.005	0.0125	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
KA1-20	Kleinfelder	SE of former waste oil tank	20	9/10/2004	0.05	0.0025	0.0025	0.0025	0.005	0.0125	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
KA1-25	Kleinfelder	SE of former waste oil tank	25	9/10/2004	0.05	0.0025	0.0025	0.0025	0.005	0.0125	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
KA2-10	Kleinfelder	N of Dispensers	10	9/10/2004	**814**	**1.49**	0.005	**2.30**	**3.15**	0.0125	0.0025	0.025	0.005	0.005	0.005	**0.97**	**0.38**	**0.3**	0.0025	**0.94**	**1.3**	**6.71**	**1.8**	--	--
KA2-15	Kleinfelder	N of Dispensers	15	9/10/2004	0.05	0.0025	0.0025	0.0025	0.005	0.0125	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
KA2-20	Kleinfelder	N of Dispensers	20	9/10/2004	0.05	0.0025	0.0025	0.0025	**0.012**	0.0125	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
KA2-25	Kleinfelder	N of Dispensers	25	9/10/2004	0.05	0.0025	0.0025	0.0025	0.005	0.0125	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
KA3-10	Kleinfelder	S of Dispenser II and adjacent to UST	10	9/10/2004	**0.21**	0.0025	0.0025	0.0025	0.005	0.0125	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
KA3-15	Kleinfelder	S of Dispenser II and adjacent to UST	15	9/10/2004	**1930**	**2.68**	0.0025	**40.4**	**108**	0.0125	0.0025	0.025	0.005	0.005	0.005	**16.1**	**9.56**	**5.1**	**3.13**	**25.7**	**23.8**	**150**	**30.5**	--	--
KA3-20	Kleinfelder	S of Dispenser II and adjacent to UST	20	9/10/2004	**0.189**	0.0025	0.0025	**0.015**	**0.012**	0.0125	--	--	--	--	--	--								--	--
KA3-25	Kleinfelder	S of Dispenser II and adjacent to UST	25	9/10/2004	**0.135**	0.0025	0.0025	**0.005**	0.005	0.0125	--	--	--	--	--	--								--	--
KA4-10	Kleinfelder	S of Dispenser I and adjacent to UST	10	9/10/2004	**0.108**	0.0025	0.0025	0.0025	0.005	0.0125	--	--	--	--	--	--								--	--
KA4-15	Kleinfelder	S of Dispenser I and adjacent to UST	15	9/10/2004	**302**	0.0025	0.0025	**45.5**	**222**	0.0125	0.0025	0.025	0.005	0.005	0.005	**13.2**	**6.77**	**5.57**	**3.94**	**6.58**	**24.5**	**174**	**36.7**	--	--
KA4-20	Kleinfelder	S of Dispenser I and adjacent to UST	20	9/10/2004	0.05	0.0025	0.0025	0.0025	0.005	0.0125	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
KA4-25	Kleinfelder	S of Dispenser I and adjacent to UST	25	9/10/2004	0.05	0.0025	0.0025	0.0025	0.005	0.0125	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B5-3	Reynolds Group	Between Dispenser I & II	3	3/4/05	**16.7**	**0.086**	**0.044**	**0.975**	**1.698**	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B5-5	Reynolds Group	Between Dispenser I & II	5	3/4/05	**1670.1**	**11.568**	**120.144**	**49.827**	**80.932**	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B5-10	Reynolds Group	Between Dispenser I & II	10	3/4/05	**311.4**	**4.087**	**1.656**	**9.927**	**1.478**	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B5A-10	Reynolds Group	Between Dispenser I & II	10	3/4/05	**2759.1**	**5.907**	**2.842**	**46.693**	**54.593**	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B5A-15	Reynolds Group	Between Dispenser I & II	15	3/4/05	**2.1**	**0.331**	**0.012**	**0.058**	**0.028**	--	0.0025	0.010	**0.091**	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B5A-20	Reynolds Group	Between Dispenser I & II	20	3/4/05	**4.7**	**0.007**	**0.005**	**0.31**	**0.008**	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B5A-25	Reynolds Group	Between Dispenser I & II	25	3/4/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	**0.008**	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B5A-30	Reynolds Group	Between Dispenser I & II	30	3/4/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	**0.015**	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B5A-35	Reynolds Group	Between Dispenser I & II	35	3/4/05	**0.20**	**0.004**	**0.013**	**0.011**	**0.022**	--	0.0025	0.010	**0.025**	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B5A-40	Reynolds Group	Between Dispenser I & II	40	3/4/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B5A-45	Reynolds Group	Between Dispenser I & II	45	3/4/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	**0.005**	**0.002**
B5A-50	Reynolds Group	Between Dispenser I & II	50	3/4/05	0.05	0.001	**0.022**	**0.004**	**0.017**	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	**0.006**	**0.002**
B6-10	Reynolds Group	N of UST	10	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B6-15	Reynolds Group	N of UST	15	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B6-20	Reynolds Group	N of UST	20	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B6-25	Reynolds Group	N of UST	25	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B6-30	Reynolds Group	N of UST	30	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B6-35	Reynolds Group	N of UST	35	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	**0.005**	**0.005**
B6-40	Reynolds Group	N of UST	40	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	**0.014**	**0.017**
B6-45	Reynolds Group	N of UST	45	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	**0.013**	**0.012**
B6-50	Reynolds Group	N of UST	50	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	**0.008**	**0.012**
B7-10	Reynolds Group	N of Dispenser I & II	10	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B7-15	Reynolds Group	N of Dispenser I & II	15	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	**0.008**	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B7-20	Reynolds Group	N of Dispenser I & II	20	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B7-25	Reynolds Group	N of Dispenser I & II	25	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	**0.039**	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B7-30	Reynolds Group	N of Dispenser I & II	30	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B7-35	Reynolds Group	N of Dispenser I & II	35	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B7-40	Reynolds Group	N of Dispenser I & II	40	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	**0.027**
B7-45	Reynolds Group	N of Dispenser I & II	45	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	**0.006**
B7-50	Reynolds Group	N of Dispenser I & II	50	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	**0.003**
B8-10	Reynolds Group	Adjacent to Dispenser I	10	3/4/05	**4947.5**	**28.361**	**132.313**	**85.382**	**77.351**	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B8-15	Reynolds Group	Adjacent to Dispenser I	15	3/4/05	**76.3**	**0.635**	**1.438**	**1.545**	**2.198**	--	0.0025	0.010	**0.106**	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B8-20	Reynolds Group	Adjacent to Dispenser I	20	3/4/05	**0.40**	**0.003**	**0.010**	**0.015**	**0.019**	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B8-25	Reynolds Group	Adjacent to Dispenser I	25	3/4/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	**0.068**	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B8-30	Reynolds Group	Adjacent to Dispenser I	30	3/4/05	0.05	**0.003**	**0.015**	**0.005**	**0.011**	--	0.0025	0.010	**0.018**	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B8-35	Reynolds Group	Adjacent to Dispenser I	35	3/4/05	**0.70**	**0.030**	**0.072**	**0.021**	**0.068**	--	0.0025	0.010	**0.008**	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B8-40	Reynolds Group	Adjacent to Dispenser I	40	3/4/05	0.05	0.001	**0.015**	**0.004**	**0.012**	--	0.0025	0.010	**0.010**	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B8-45	Reynolds Group	Adjacent to Dispenser I	45	3/4/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.001	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B8-50	Reynolds Group	Adjacent to Dispenser I	50	3/4/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.001	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B9-10	Reynolds Group	SE of UST	10	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B9-15	Reynolds Group	SE of UST	15	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B9-20	Reynolds Group	SE of UST	20	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B9-25	Reynolds Group	SE of UST	25	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B9-30	Reynolds Group	SE of UST	30	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B9-35	Reynolds Group	SE of UST	35	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B9-40	Reynolds Group	SE of UST	40	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B9-45	Reynolds Group	SE of UST	45	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001
B9-50	Reynolds Group	SE of UST	50	3/3/05	0.05	0.001	0.001	0.001	0.001	--	0.0025	0.010	0.0025	0.0025	0.0025	--	--	0.001	0.001	--	--	--	--	0.001	0.001

Table 1

RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES
HISTORICAL SUMMARY AND STATISTICAL EVALUATION
Former Shell Service Station
25535 Hawthorne Boulevard
Torrance, California

Sample ID	Consultant	Sample Location	Sample Depth (feet)	Date	TPH-G (8015M/ DHS LUFT) (mg/kg)	Benzene (8020) (mg/kg)	Toluene (8020) (mg/kg)	Ethyl-benzene (8020) (mg/kg)	Xylenes (8020) (mg/kg)	MTBE (8020) (mg/kg)	MTBE (8260B) (mg/kg)	TBA (8026B) (mg/kg)	DIPE (8026B) (mg/kg)	ETBE (8026B) (mg/kg)	TAME (8026B) (mg/kg)	n-Butyl-benzene (8260B) (mg/kg)	sec-Butyl-benzene (8260B) (mg/kg)	Isopropyl-benzene (8260B) (mg/kg)	4-Isopropyl-toluene (8260B) (mg/kg)	Naphthalene (8260B) (mg/kg)	n-Propyl-benzene (8260B) (mg/kg)	1,2,4-Trimethyl benzene (8260B) (mg/kg)	1,3,5-Trimethyl-benzene (8260B) (mg/kg)	1,2 - DCA (8260B) (mg/kg)	cis 1,2-DCE (8260B) (mg/kg)
S-4	HLA	Tank Excavation	16	8/11/1988	**14**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S-7	HLA	Tank Excavation	17	8/11/1988	**25**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S-8	HLA	Tank Excavation	17	8/11/1988	**2**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TP-1 (S-5/S-6 Area)	HLA	Tank Excavation	18.5	12/14/1988	**80**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TP-2 (S-5/S-6 Area)	HLA	Tank Excavation	16.5	12/14/1988	**40**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TP-3 (S-5/S-6 Area)	HLA	Tank Excavation	18	12/14/1988	**50**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TP-4 (S-5/S-6 Area)	HLA	Tank Excavation	17.5	12/14/1988	**40**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-1-20.5	HLA	Tank Pit	20.5	2/16/1989	**1100**	**1.0**	**60**	**45**	**330**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-1-43	HLA	Tank Pit	43	2/16/1989	--	0.05	0.05	0.05	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-2-34	HLA	SSE of Tank Pit	34	2/16/1989	--	0.05	0.05	0.05	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-3-27.5	HLA	N of Dispenser I	27.5	2/16/1989	0.05	0.05	0.05	0.05	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-3-38	HLA	N of Dispenser I	38	2/16/1989	--	0.05	0.05	0.05	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-4-21	HLA	W of Tank Pit	21	2/16/1989	--	0.05	**0.10**	0.05	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-4-36	HLA	W of Tank Pit	36	2/16/1989	--	0.05	**0.20**	0.05	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
H-1-2	HLA	Dispenser I	2	2/16/1989	--	0.05	0.05	0.05	**0.3**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
H-3-2	HLA	Dispenser II	2	2/16/1989	--	0.05	0.05	0.05	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-9-25	ESE	Former UST location	25	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-9-30	ESE	Former UST location	30	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-9-35	ESE	Former UST location	35	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-9-40	ESE	Former UST location	40	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-10-17.5	ESE	Former UST location	17.5	5/13/1993	5	0.0025	**0.198**	0.0025	**0.192**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-11-5	ESE	N of former UST location	5	5/13/1993	**229**	0.0025	**0.466**	**0.377**	**4.503**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-11-10	ESE	N of former UST location	10	5/13/1993	**1058**	**0.808**	**10.461**	**13.787**	**78.696**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-11-15	ESE	N of former UST location	15	5/13/1993	**33**	**1.029**	**2.549**	**0.796**	**4.733**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-11-20	ESE	N of former UST location	20	5/13/1993	5	0.0025	**0.392**	**0.148**	**0.956**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-11-25	ESE	N of former UST location	25	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-11-30	ESE	N of former UST location	30	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-11-35	ESE	N of former UST location	35	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-11-40	ESE	N of former UST location	40	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-12-5	ESE	E of former UST location	5	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-12-10	ESE	E of former UST location	10	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-12-15	ESE	E of former UST location	15	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-12-20	ESE	E of former UST location	20	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-12-25	ESE	E of former UST location	25	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-12-30	ESE	E of former UST location	30	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-12-35	ESE	E of former UST location	35	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-13-17.5	ESE	Fomer UST location	17.5	5/13/1993	**3577**	**5.268**	**77.621**	**76.413**	**536.597**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-13-22.5	ESE	Fomer UST location	22.5	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-13-27.5	ESE	Fomer UST location	27.5	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-13-32.5	ESE	Fomer UST location	32.5	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-13-37.5	ESE	Fomer UST location	37.5	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-13-40	ESE	Fomer UST location	40	5/13/1993	5	0.0025	0.0025	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-14-5'	ESE	Between Dispensers I and II	5	3/31/1994	**48**	**1.719**	**9.794**	**1.804**	**11.46**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-14-10'	ESE	Between Dispensers I and II	10	3/31/1994	5	**0.118**	**0.033**	**0.098**	**0.24**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-14-15'	ESE	Between Dispensers I and II	15	3/31/1994	**11**	**0.058**	**0.215**	**0.232**	**1.345**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-14-20'	ESE	Between Dispensers I and II	20	3/31/1994	5	**0.031**	**0.022**	**0.069**	**0.376**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-15-5'	ESE	S of Dispenser II	5	3/31/1994	5	0.0025	0.004	0.0025	**0.045**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-15-10'	ESE	S of Dispenser II	10	3/31/1994	5	**0.073**	0.004	**0.010**	**0.025**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-15-15'	ESE	S of Dispenser II	15	3/31/1994	**2702**	**8.652**	**109.189**	**59.657**	**415.622**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-15-20'	ESE	S of Dispenser II	20	3/31/1994	**7114**	**4.610**	**138.281**	**108.681**	**780.249**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-15-25'	ESE	S of Dispenser II	25	3/31/1994	5	**0.095**	**0.059**	**0.289**	**1.470**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-15-30'	ESE	S of Dispenser II	30	3/31/1994	5	**0.006**	**0.041**	**0.019**	**0.121**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-16-5'	ESE	S of Dispenser I	5	3/31/1994	5	0.0025	0.004	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-16-10'	ESE	S of Dispenser I	10	3/31/1994	5	**0.006**	0.004	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-16-15'	ESE	S of Dispenser I	15	3/31/1994	**199**	**0.288**	**4.213**	**4.207**	**21.405**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-16-20'	ESE	S of Dispenser I	20	3/31/1994	5	0.0025	0.004	0.0025	**0.022**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-17-5'	ESE	W of North end of Dispenser I	5	3/31/1994	**69**	**2.307**	**6.382**	**2.472**	**10.616**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-17-10'	ESE	W of North end of Dispenser I	10	3/31/1994	**115**	**2.435**	**14.613**	**4.39**	**22.017**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-17-15'	ESE	W of North end of Dispenser I	15	3/31/1994	**12**	**0.119**	**0.377**	**0.506**	**2.168**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-17-20'	ESE	W of North end of Dispenser I	20	3/31/1994	5	0.0025	0.004	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-17-25'	ESE	W of North end of Dispenser I	25	3/31/1994	5	**0.005**	**0.013**	**0.006**	**0.239**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-18-5'	ESE	E of North end of Dispenser II	5	3/31/1994	**191**	**6.204**	**31.526**	**5.519**	**32.419**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-18-10'	ESE	E of North end of Dispenser II	10	3/31/1994	**166**	**1.979**	**12.997**	**5.27**	**29.136**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-18-15'	ESE	E of North end of Dispenser II	15	3/31/1994	5	**0.014**	**0.033**	**0.006**	**0.027**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-18-20'	ESE	E of North end of Dispenser II	20	3/31/1994	5	0.0025	**0.008**	0.0025	**0.015**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-18-25'	ESE	E of North end of Dispenser II	25	3/31/1994	5	0.0025	0.004	0.0025	0.0075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T1-S1-3'	ESE	W of South end of Dispenser II	3	9/16/1996	5	0.0025	**0.008**	0.0025	0.0075	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T1-S4-4'	ESE	W of North end of Dispenser II	4	9/16/1996	5	**0.018**	**0.022**	**0.058**	**0.059**	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T1-S5-4'	ESE	N of Dispensers I and II	4	9/16/1996	**68**	**0.13**	**0.89**	**1.3**	**6.9**	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T1-S8-2.5'	ESE	NE of Dispenser I	2.5	9/16/1996	**560**	**0.32**	**5**	**8.8**	**53**	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T1-S9-3.5'	ESE	E of North end of Dispenser I	3.5	9/16/1996	**70**	**0.047**	**0.19**	**1.2**	**0.9**	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T2-S2-2'	ESE	E of North end of Dispenser II	2	9/16/1996	**41**	**0.15**	**0.046**	**0.14**	**1.1**	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T2-S3-4'	ESE	E of South end of Dispenser II	4	9/16/1996	**760**	**0.20**	**2.4**	**2.0**	**44**	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T3-S6-3'	ESE	W of North end of Dispenser I	3	9/16/1996	**2800**	**4.7**	**79**	**56**	**320**	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T3-S7-4'	ESE	W of South end of Dispenser I	4	9/16/1996	5	0.0025	**0.022**	**0.018**	**0.20**	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1

RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES
HISTORICAL SUMMARY AND STATISTICAL EVALUATION
Former Shell Service Station
25535 Hawthorne Boulevard
Torrance, California

Sample ID	Consultant	Sample Location	Sample Depth (feet)	Date	TPH-G (8015M/ DHS LUFT) (mg/kg)	Benzene (8020) (mg/kg)	Toluene (8020) (mg/kg)	Ethyl-benzene (8020) (mg/kg)	Xylenes (8020) (mg/kg)	MTBE (8020) (mg/kg)	MTBE (8260B) (mg/kg)	TBA (8026B) (mg/kg)	DIPE (8026B) (mg/kg)	ETBE (8026B) (mg/kg)	TAME (8026B) (mg/kg)	n-Butyl-benzene (8260B) (mg/kg)	sec-Butyl-benzene (8260B) (mg/kg)	Isopropyl-benzene (8260B) (mg/kg)	4-Isopropyl-toluene (8260B) (mg/kg)	Naphthalene (8260B) (mg/kg)	n-Propyl-benzene (8260B) (mg/kg)	1,2,4-Trimethyl-benzene (8260B) (mg/kg)	1,3,5-Trimethyl-benzene (8260B) (mg/kg)	1,2 - DCA (8260B) (mg/kg)	cis 1,2-DCE (8260B) (mg/kg)
B5-3	Miller Brooks	Between Dispenser I & II	3	3/4/05	**11**	**0.042**	**0.0079**	**0.51**	**1.23**	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B5-5	Miller Brooks	Between Dispenser I & II	5	3/4/05	**2100**	**2.3**	**34**	**15**	**93**	--	0.315	0.315	0.65	0.65	0.65	--	--	--	--	--	--	--	--	--	--
B5-10	Miller Brooks	Between Dispenser I & II	10	3/4/05	**1900**	**5.6**	0.315	**36**	**70.6**	--	0.315	0.315	0.65	0.65	0.65	--	--	--	--	--	--	--	--	--	--
B5A-10	Miller Brooks	Between Dispenser I & II	10	3/4/05	**260**	**2.3**	**0.22**	**7.0**	**24**	--	0.125	1.25	0.06	0.06	0.06	--	--	--	--	--	--	--	--	--	--
B5A-15	Miller Brooks	Between Dispenser I & II	15	3/4/05	0.25	**0.28**	0.0025	**0.029**	0.0025	--	**0.0081**	0.025	**0.06**	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B5A-20	Miller Brooks	Between Dispenser I & II	20	3/4/05	**2.6**	**0.021**	0.0025	**0.91**	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B5A-25	Miller Brooks	Between Dispenser I & II	25	3/4/05	0.25	0.0025	0.0025	**0.012**	**0.014**	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B5A-30	Miller Brooks	Between Dispenser I & II	30	3/4/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	**0.016**	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B5A-35	Miller Brooks	Between Dispenser I & II	35	3/4/05	0.25	0.0025	**0.011**	**0.044**	**0.027**	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B5A-40	Miller Brooks	Between Dispenser I & II	40	3/4/05	0.25	0.0025	0.0025	**0.016**	**0.013**	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B5A-45	Miller Brooks	Between Dispenser I & II	45	3/4/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B5A-50	Miller Brooks	Between Dispenser I & II	50	3/4/05	0.25	**0.0045**	**0.0079**	**0.0076**	**0.0232**	--	0.00165	0.0165	**0.002**	0.0008	0.0008	--	--	--	--	--	--	--	--	--	--
B6-10	Miller Brooks	N of UST	10	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B6-15	Miller Brooks	N of UST	15	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B6-20	Miller Brooks	N of UST	20	3/3/05	**0.24**	0.00044	0.00044	0.00044	0.0009	--	0.0009	0.009	0.00044	0.00044	0.00044	--	--	--	--	--	--	--	--	--	--
B6-25	Miller Brooks	N of UST	25	3/3/05	**0.97**	**0.011**	**0.0042**	0.0007	0.0014	--	**0.016**	0.014	**0.027**	0.0007	0.0007	--	--	--	--	--	--	--	--	--	--
B6-30	Miller Brooks	N of UST	30	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B6-35	Miller Brooks	N of UST	35	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B6-40	Miller Brooks	N of UST	40	3/3/05	0.17	0.00075	0.00075	0.00075	0.0015	--	0.0015	0.015	0.00075	0.00075	0.00075	--	--	--	--	--	--	--	--	--	--
B6-45	Miller Brooks	N of UST	45	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	**0.078**	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B6-50	Miller Brooks	N of UST	50	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	**0.093**	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B7-10	Miller Brooks	N of Dispenser I & II	10	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B7-15	Miller Brooks	N of Dispenser I & II	15	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	**0.013**	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B7-20	Miller Brooks	N of Dispenser I & II	20	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B7-25	Miller Brooks	N of Dispenser I & II	25	3/3/05	0.135	**0.0023**	**0.0017**	0.00055	0.0011	--	0.0011	0.011	**0.033**	0.00055	0.00055	--	--	--	--	--	--	--	--	--	--
B7-30	Miller Brooks	N of Dispenser I & II	30	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B7-35	Miller Brooks	N of Dispenser I & II	35	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B7-40	Miller Brooks	N of Dispenser I & II	40	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B7-45	Miller Brooks	N of Dispenser I & II	45	3/3/05	0.125	0.00048	0.00048	0.00048	0.00095	--	0.00095	0.0095	**0.001**	0.00048	0.00048	--	--	--	--	--	--	--	--	--	--
B7-50	Miller Brooks	N of Dispenser I & II	50	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B8-10	Miller Brooks	Adjacent to Dispenser I	10	3/4/05	**2200**	**3.4**	**38**	**22**	**131**	--	0.0025	**0.067**	**0.47**	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B8-15	Miller Brooks	Adjacent to Dispenser I	15	3/4/05	**1300**	**2.0**	**5.4**	**27**	**72**	--	0.6	6	0.305	0.305	0.305	--	--	--	--	--	--	--	--	--	--
B8-20	Miller Brooks	Adjacent to Dispenser I	20	3/4/05	0.25	0.0025	**0.0095**	**0.019**	**0.044**	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B8-25	Miller Brooks	Adjacent to Dispenser I	25	3/4/05	0.25	0.0025	**0.0072**	0.0025	**0.0093**	--	0.0025	0.025	**0.012**	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B8-30	Miller Brooks	Adjacent to Dispenser I	30	3/4/05	0.25	0.0025	0.0025	0.0025	0.0025	--	**0.0051**	0.025	**0.026**	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B8-35	Miller Brooks	Adjacent to Dispenser I	35	3/4/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B8-40	Miller Brooks	Adjacent to Dispenser I	40	3/4/05	**1.4**	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	**0.019**	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B8-45	Miller Brooks	Adjacent to Dispenser I	45	3/4/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B8-50	Miller Brooks	Adjacent to Dispenser I	50	3/4/05	0.18	0.0008	0.0008	0.0008	0.0016	--	0.00016	0.00016	**0.0022**	0.00016	0.00016	--	--	--	--	--	--	--	--	--	--
B9-10	Miller Brooks	SE of UST	10	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B9-15	Miller Brooks	SE of UST	15	3/3/05	**1.0**	0.00065	0.00065	0.00065	0.00125	--	0.00125	0.0125	0.00065	0.00065	0.00065	--	--	--	--	--	--	--	--	--	--
B9-20	Miller Brooks	SE of UST	20	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B9-25	Miller Brooks	SE of UST	25	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B9-30	Miller Brooks	SE of UST	30	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B9-35	Miller Brooks	SE of UST	35	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B9-40	Miller Brooks	SE of UST	40	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B9-45	Miller Brooks	SE of UST	45	3/3/05	0.25	0.0025	0.0025	0.0025	0.0025	--	0.0025	0.025	0.005	0.005	0.005	--	--	--	--	--	--	--	--	--	--
B9-50	Miller Brooks	SE of UST	50	3/3/05	0.11	0.00065	0.00065	0.00065	0.0013	--	0.0013	0.0013	**0.0026**	0.00065	0.00065	--	--	--	--	--	--	--	--	--	--

Table 1

RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES
HISTORICAL SUMMARY AND STATISTICAL EVALUATION
Former Shell Service Station
25535 Hawthorne Boulevard
Torrance, California

Sample ID	Consultant	Sample Location	Sample Depth (feet)	Date	TPH-G (8015M/ DHS LUFT) (mg/kg)	Benzene (8020) (mg/kg)	Toluene (8020) (mg/kg)	Ethyl-benzene (8020) (mg/kg)	Xylenes (8020) (mg/kg)	MTBE (8020) (mg/kg)	MTBE (8260B) (mg/kg)	TBA (8026B) (mg/kg)	DIPE (8026B) (mg/kg)	ETBE (8026B) (mg/kg)	TAME (8026B) (mg/kg)	n-Butyl-benzene (8260B) (mg/kg)	sec-Butyl-benzene (8260B) (mg/kg)	Isopropyl-benzene (8260B) (mg/kg)	4-Isopropyl-toluene (8260B) (mg/kg)	Naphthalene (8260B) (mg/kg)	n-Propyl-benzene (8260B) (mg/kg)	1,2,4-Trimethyl benzene (8260B) (mg/kg)	1,3,5-Trimethyl-benzene (8260B) (mg/kg)	1,2 - DCA (8260B) (mg/kg)	cis 1,2-DCE (8260B) (mg/kg)
Conf. 1		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 2		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 3		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 4		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 5		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 6		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 7		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 8		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 9		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 10		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 11		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 12		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 13		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 14		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 15		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 16		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 17		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 18		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 19		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 20		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 21		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 22		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 23		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 24		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 25		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 26		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 27		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 28		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 29		Confirmation Sample			70	0.1	100	100	100		1														
Conf. 30		Confirmation Sample			70	0.1	100	100	100		1														
		Number Samples/Results (Population)			173	175	175	175	175		130	84	84	84	84	1	1	43	43	1	1	1	1	42	42
		Standard Deviation (Population)			63.7993582	0.054853541	37.6643528	37.66152609	37.66121417		0.418867458	0.013024781	0.014502562	0.001501242	0.001501242	0	0	0.000226072	0.000226072	0	0	0	0	0.002971234	0.005070534
		95% Upper Confidence Level			**29.5154**	**0.0391**	**22.7799**	**22.7856**	**23.1847**		**0.3074**	**0.0201**	**0.0116**	**0.0036**	**0.0036**	**#NUM!**	**#NUM!**	**0.0011**	**0.0011**	**#NUM!**	**#NUM!**	**#NUM!**	**#NUM!**	**0.0030**	**0.0044**
		90% Upper Confidence Level			**17.4991**	**0.0235**	**4.7516**	**4.7587**	**5.2403**		**0.2959**	**0.0197**	**0.0111**	**0.0035**	**0.0035**	**#NUM!**	**#NUM!**	**0.0011**	**0.0011**	**#NUM!**	**#NUM!**	**#NUM!**	**#NUM!**	**0.0028**	**0.0041**
		Geometric Mean			**1.1471**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0124**	**0.0139**	**0.0045**	**0.0028**	**0.0028**	**0.0025**	**0.0025**	**0.0010**	**0.0010**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0013**	**0.0015**
		Arithmetic Mean			**20.0084**	**0.0310**	**17.1995**	**17.2057**	**17.6048**		**0.2354**	**0.0173**	**0.0085**	**0.0033**	**0.0033**	**0.0025**	**0.0025**	**0.0010**	**0.0010**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0021**	**0.0028**
		Maximum			**760**	**0.33**	**100**	**100**	**100**		**1.0**	**0.093**	**0.091**	**0.005**	**0.005**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.014**	**0.027**

Notes:

TPH-G - total petroleum hydrocarbons as gasoline using EPA Method 8015 Modified or DHS LUFT Method
MTBE - methyl tertiary butyl ether using EPA Method 8020 or 8260B
TBA - tertiary butyl alcohol using EPA Method 8260B
DIPE - diisopropyl ether using EPA Method 8260B
ETBE - ethyl tertiary butyl ether using EPA Method 8260B
TAME - tertiary amyl methyl ether using EPA Method 8260B
1,2 - DCA - 1,2 - dichloroethane
cis 1,2-DCE - cis 1,2-dichloroethene
mg/kg - milligrams per kilogram
- located in area to be excavated

APPENDIX C

HISTORICAL SOIL ANALYTICAL DATA (DELTA)

Table 1
Soil Analytical Data
25535 Hawthorne Blvd, Torrance

Sample Depth (feet)	TPH-g mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenze mg/kg	Xylenes mg/kg	1,2,4-Trimethylbenzenes mg/kg	1,3,5-Trimethylbenzene mg/kg	MTBE mg/kg	TBA mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg	Ethanol mg/kg
SB-1	**10/5/2006**												
10	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.20
15	ND<0.19	ND<0.00096	ND<0.00096	ND<0.00096	ND<0.0019	ND<0.00096	ND<0.00096	ND<0.0019	ND<0.019	ND<0.0019	ND<0.0019	ND<0.0019	ND<0.19
20	ND<0.32	ND<0.0016	ND<0.0016	ND<0.0016	ND<0.0032	ND<0.0016	ND<0.0016	ND<0.0032	ND<0.032	ND<0.0032	ND<0.0032	ND<0.0032	ND<0.32
25	ND<0.25	ND<0.0013	ND<0.0013	ND<0.0013	ND<0.0026	ND<0.0013	ND<0.0013	ND<0.0026	ND<0.026	ND<0.0026	ND<0.0026	ND<0.0026	ND<0.26
SB-2	**10/6/2006**												
10	**29**	**0.48**	ND<0.12	**1.4**	ND<0.12	ND<0.12	ND<0.12	ND<0.31	ND<6.2	ND<0.31	ND<0.31	ND<0.31	ND<19
15	**1.2**	**0.011**	**0.0057**	**0.054**	**0.021**	**0.0087**	**0.0027**	ND<0.0021	ND<0.21	**0.031**	ND<0.0021	ND<0.0021	ND<0.21
20	ND<0.22	ND<0.0011	ND<0.0011	ND<0.0011	ND<0.0022	ND<0.0011	ND<0.0011	ND<0.0022	ND<0.022	**0.017**	ND<0.0022	ND<0.0022	ND<0.22
25	ND<0.27	ND<0.0013	ND<0.0013	ND<0.0013	ND<0.0027	ND<0.0013	ND<0.0013	ND<0.0027	ND<0.027	**0.021**	ND<0.0027	ND<0.0027	ND<0.27
SB-3	**10/5/2006**												
10	ND<10	**0.35**	ND<0.10	**0.51**	ND<0.10	ND<0.10	ND<0.10	ND<0.25	ND<5.1	ND<0.25	ND<0.25	ND<0.25	ND<15
15	**21**	**1.0**	ND<0.11	**1.0**	ND<0.11	ND<0.11	ND<0.11	ND<0.28	ND<5.5	ND<0.28	ND<0.28	ND<0.28	ND<17
20	**0.31**	**0.0020**	ND<0.00088	**0.0011**	ND<0.0018	ND<0.00088	ND<0.00088	ND<0.0018	ND<0.018	**0.0019**	ND<0.0018	ND<0.0018	ND<0.18
25	ND<0.26	ND<0.0013	ND<0.0013	ND<0.0013	ND<0.0013	ND<0.0013	ND<0.0013	ND<0.0026	ND<0.026	**0.011**	ND<0.0026	ND<0.0026	ND<0.26
SB-4	**10/5/2006**												
10	**2.4**	**0.064**	ND<0.0012	**0.062**	ND<0.0024	ND<0.0012	ND<0.0012	**0.0099**	ND<0.024	**0.013**	ND<0.0024	ND<0.0024	ND<0.24
15	**2500**	**4.7**	**2.9**	**57**	**160**	**180**	**54**	ND<2.8	ND<55	ND<2.8	ND<2.8	ND<2.8	ND<170
20	**3500**	ND<2.2	ND<2.2	**41**	**84**	**240**	**68**	ND<5.6	ND<110	ND<5.6	ND<5.6	ND<5.6	ND<340
25	**11**	ND<0.10	ND<0.10	**0.16**	ND<0.10	**0.14**	ND<0.10	ND<0.25	ND<5.0	ND<0.25	ND<0.25	ND<0.25	ND<15
SB-5*	**10/6/2006**												
6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-6	**10/5/2006**												
10	ND<0.25	ND<0.0012	ND<0.0012	ND<0.0012	ND<0.0025	ND<0.0012	ND<0.0012	ND<0.0025	ND<0.025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.25
15	ND<0.23	ND<0.0012	ND<0.0012	ND<0.0012	ND<0.0023	ND<0.0012	ND<0.0012	ND<0.0023	ND<0.023	ND<0.0023	ND<0.0023	ND<0.0023	ND<0.23
20	ND<0.19	ND<0.00093	ND<0.00093	ND<0.00093	ND<0.0019	ND<0.00093	ND<0.00093	ND<0.0019	ND<0.019	ND<0.0019	ND<0.0019	ND<0.0019	ND<0.19
25	ND<0.23	ND<0.0011	ND<0.0011	ND<0.0011	ND<0.0023	ND<0.0011	ND<0.0011	ND<0.0023	ND<0.023	ND<0.0023	ND<0.0023	ND<0.0023	ND<0.23
SB-7	**10/5/2006**												
10	ND<0.22	ND<0.0011	ND<0.0011	ND<0.0011	ND<0.0022	ND<0.0011	ND<0.0011	ND<0.0022	ND<0.022	ND<0.0022	ND<0.0022	ND<0.0022	ND<0.22
15	ND<0.23	ND<0.0012	ND<0.0012	ND<0.0012	ND<0.0023	**0.0012**	ND<0.0012	ND<0.0023	ND<0.023	ND<0.0023	ND<0.0023	ND<0.0023	ND<0.23
20	ND<0.28	ND<0.0014	ND<0.0014	ND<0.0014	ND<0.0028	ND<0.0014	ND<0.0014	ND<0.0028	ND<0.028	**0.0080**	ND<0.0028	ND<0.0028	ND<0.28
25	ND<0.24	ND<0.0012	ND<0.0012	ND<0.0012	ND<0.0024	ND<0.0012	ND<0.0012	ND<0.0024	ND<0.024	**0.0089**	ND<0.0024	ND<0.0024	ND<0.24
SB-8	**10/6/2006**												
10	ND<0.21	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0021	ND<0.0010	ND<0.0010	ND<0.0021	ND<0.021	ND<0.0021	ND<0.0021	ND<0.0021	ND<0.21
15	ND<0.22	ND<0.0011	ND<0.0011	ND<0.0011	ND<0.0022	**0.0014**	ND<0.0011	ND<0.0022	ND<0.022	ND<0.0022	ND<0.0022	ND<0.0022	ND<0.22
20	ND<0.29	ND<0.0014	ND<0.0014	ND<0.0014	ND<0.0027	ND<0.0014	ND<0.0014	ND<0.0027	ND<0.027	ND<0.0027	ND<0.0027	ND<0.0027	ND<0.27
25	ND<0.24	ND<0.0012	ND<0.0012	ND<0.0012	ND<0.0024	ND<0.0012	ND<0.0012	ND<0.0024	ND<0.024	ND<0.0024	ND<0.0024	ND<0.0024	ND<0.24

Table 1
Soil Analytical Data
25535 Hawthorne Blvd, Torrance

Sample Depth (feet)	TPH-g mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenze mg/kg	Xylenes mg/kg	1,2,4-Trimethylbenzenee mg/kg	1,3,5-Trimethylbenzene mg/kg	MTBE mg/kg	TBA mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg	Ethanol mg/kg

Notes:
mg/kg - milligrams per kilogram
ND - Not detected, see CARS for method detection limits
TPH-g - Total Petroleum Hydrocarbons as gasoline
MTBE - Methyl tert-butyl ether
TBA - Tert-butyl alcohol
DIPE - Di-isopropyl Ether
ETBE - Ethyl tert-Butyl Ether
TAME - tert-Amyl Methyl Ether
BTEX Compounds, MTBE, TBA, DIPE, ETBE, and TAME analyzed using EPA Method 8260B
NS - Not sampled
* Encountered refusal at 6 feet below ground surface

Table 2
Summary of Soil Analytical Data - Excavation Activities
Former Shell Service Station
25535 Hawthorne Blvd, Torrance

Sample ID	Sample Depth (feet)	TPH-g mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenze mg/kg	Xylenes mg/kg	1,2,4-Trimethylbenzene mg/kg	1,3,5-Trimethylbenzene mg/kg	MTBE mg/kg	TBA mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg	Ethanol mg/kg
Grid 1		**11/15/2006**												
GR-1Ad15	15	ND<0.52	ND<0.0015	0.0020	ND<0.0015	ND<0.0030	ND<0.0015	ND<0.0015	ND<0.0030	ND<0.030	0.0091	ND<0.0030	ND<0.0030	ND<0.30
GR-1Bd15	15	ND<0.51	0.0018	0.0022	0.0014	ND<0.0021	ND<0.0011	ND<0.0011	ND<0.0021	ND<0.021	0.0042	ND<0.0021	ND<0.0021	ND<0.21
GR-1Cd20	20	ND<0.38	0.018	0.014	0.0027	0.0078	0.0021	ND<0.0010	ND<0.0020	ND<0.020	0.0083	ND<0.0020	ND<0.0020	ND<0.20
GR-1Dd20	20	1.3	0.0090	0.0074	0.0041	0.0145	0.022	0.0057	ND<0.0019	ND<0.019	ND<0.0019	ND<0.0019	ND<0.0019	ND<0.19
GR-1Ed20	20	18 E, ZX	0.0055	0.018	0.032	0.138	0.19	0.052	ND<0.0018	ND<0.018	0.0061	ND<0.0018	ND<0.0018	ND<0.18
Grid 2		**11/13/2006**												
GR-2Ad15	15	1.7	ND<0.0016	ND<0.0016	0.0016	0.0064	0.0061	0.0016	ND<0.0032	ND<0.032	ND<0.0032	ND<0.0032	ND<0.0032.	ND<0.32
GR-2Bd20	20	ND<0.19	0.0012	0.0036	0.0028	0.0116	0.0066	0.002	ND<0.0019	ND<0.019	ND<0.0019	ND<0.0019	ND<0.0019	ND<0.19
Grid 3		**11/9/2006**												
GR-3Ad15	15	ND<0.51	ND<0.0018	ND<0.0018	ND<0.0018	ND<0.0035	ND<0.0018	ND<0.0018	ND<0.0035	ND<0.035	ND<0.0035	ND<0.0035	ND<0.0035	ND<0.35
GR-3Bd15	15	1.1	0.0028	0.0034	0.0072	0.023	0.028	0.0082	ND<0.0022	0.022	ND<0.0022	ND<0.0022	ND<0.0022	ND<0.22
GR-3Cd20	20	ND<0.35	0.0180	0.012	0.0024	0.0073	0.0023	ND<0.00089	ND<0.0018	ND<0.018	ND<0.0018	ND<0.0018	ND<0.0018	ND<0.18
Grid 4		**11/16/2006**												
GR-4Ad15	15	ND<0.44	0.0013	0.0011	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.20
GR-4Bd20	20	3100	ND<2.0	34	31	196	110	36	ND<5.1	ND<100	ND<5.1	ND<5.1	ND<5.1	ND<310
GR-4Cd20	20	2.2	0.031	0.012	0.30	0.045	0.032	0.0079	0.013	0.031	0.013	ND<0.0021	ND<0.0021	ND<0.21
GR-4Dd20	20	1.5	0.070	0.0072	0.16	0.0233	0.0076	0.0024	0.0070	ND<0.019	0.015	ND<0.0019	ND<0.0019	ND<0.19
Grid 5		**11/16/2006 and 11/20/ 2006**												
GR-5Ad10	10	0.93	0.046	0.056	0.12	0.50	0.46	0.15	ND<0.0021	ND<0.021	ND<0.0021	ND<0.0021	ND<0.0021	ND<0.21
GR-5Bd10	10	1.3 ZX	1.1	0.0055	0.39	0.069	0.067	0.018	0.027	0.034	0.033	ND<0.0020	ND<0.0020	ND<0.20
GR-5Cd10	10	740 ZX	6.1	24	39	280	150	50	ND<3.0	ND<60	ND<3.0	ND<3.0	ND<3.0	ND<180
GR-5Dd10	10	0.45	0.30	1.4	4.3	27.8	24	9.0	ND<0.27	ND<5.3	ND<0.27	ND<0.27	ND<0.27	ND<16
GR-5Ed15	15	ND<0.42	0.0040	ND<0.0012	ND<0.0012	ND<0.0023	ND<0.0012	ND<0.0012	ND<0.0023	ND<0.023	ND<0.0023	ND<0.0023	ND<0.0023	ND<0.23
GR-5Fd20	20	ND<0.43	0.0014	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	0.0020	ND<0.020	0.0028	ND<0.0020	ND<0.0020	ND<0.20
GR-5Gd20	20	38 Z	0.0088	0.0030	0.17	0.0377	0.14	0.018	0.0027	ND<0.022	ND<0.0022	ND<0.0022	ND<0.0022	ND<0.22
GR-5Hd20	20	ND<0.46	0.0091	0.0026	0.0019	0.0038	0.0040	0.0013	0.0034	ND<0.022	0.0049	ND<0.0022	ND<0.0022	ND<0.22
Grid 6		**11/16/2006 and 11/20/ 2006**												
GR-6Ad10	10	ND<0.28	ND<0.0011	ND<0.0011	ND<0.0011	ND<0.0023	ND<0.0011	ND<0.0011	ND<0.0023	ND<0.023	ND<0.0023	ND<0.0023	ND<0.0023	ND<0.23
GR-6Bd10	10	ND<0.22	ND<0.0012	ND<0.0012	ND<0.0012	ND<0.0024	ND<0.0012	ND<0.0012	ND<0.0024	ND<0.024	0.0027	ND<0.0024	ND<0.0024	ND<0.24
GR-6Cd10	10	120 Z	0.12	ND<0.11	3.0	12.1	12	4.0	ND<0.28	ND<5.5	ND<0.28	ND<0.28	ND<0.28	ND<17
GR-6Dd10	10	ND<0.23	ND<0.0014	ND<0.0014	ND<0.0014	ND<0.0029	0.0040	ND<0.0014	ND<0.0029	ND<0.029	ND<0.0029	ND<0.0029	ND<0.0029	ND<0.29
GR-6Ed15	15	ND<0.40	0.0020	0.0012	ND<0.0011	ND<0.0021	ND<0.0011	ND<0.0011	ND<0.0021	ND<0.021	ND<0.0021	ND<0.0021	ND<0.0021	ND<0.21
GR-6Fd20	20	ND<0.44	0.0015	ND<0.00099	ND<0.00099	ND<0.0020	ND<0.00099	ND<0.00099	ND<0.0020	ND<0.020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.20
GR-6Gd20	20	ND<0.36	0.0012	0.0010	ND<0.0010	ND<0.0021	ND<0.0010	ND<0.0010	ND<0.0021	ND<0.021	0.0023	ND<0.0021	ND<0.0021	ND<0.21
GR-6Hd20	20	ND<0.43	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.020	0.0032	ND<0.0020	ND<0.0020	ND<0.20

Notes:
mg/kg - milligrams per kilogram
ND - Not detected, see CARS for method detection limits
TPH-g - Total Petroleum Hydrocarbons as gasoline
MTBE - Methyl tert-butyl ether
TBA - Tert-butyl alcohol
DIPE - Di-isopropyl Ether
ETBE - Ethyl tert-Butyl Ether
TAME - tert-Amyl Methyl Ether
BTEX Compounds, MTBE, TBA, DIPE, ETBE, and TAME analyzed using EPA Method 8260B
Z - Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
E - Concentration exceeds the calibration range and therefore the result is semi-quantitative.

Table 1
Summary of Soil Analytical Data - Geoprobe Activities
Former Shell Service Station
25535 Hawthorne Blvd, Torrance

Sample Depth (feet)	TPH-g mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylenes mg/kg	1,2,4-Trimethylbenzene mg/kg	1,3,5-Trimethylbenzene mg/kg	Analytical Laboratory
GP-1	**3/1/2007**							
22.5	**5.2 ***	**0.012**	**0.063**	**0.16**	**0.39**	**1.1**	**0.087**	Calscience
25	**46 ***	ND<0.096	ND<0.096	**1.7**	ND<0.19	ND<0.19	ND<0.19	Calscience
28	ND<0.25	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0021	ND<0.0021	ND<0.0021	Calscience
31	**160 ***	ND<0.092	**1.2**	**2.8**	**9.1**	**8.8**	**2.1**	Calscience
35	ND<0.28	ND<0.0013	ND<0.0013	ND<0.0013	ND<0.0026	ND<0.0026	ND<0.0026	Calscience
35	ND<0.2	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	Jones
GP-2	**3/1/2007**							
22	**3.8 ***	**0.028**	**0.15**	**1.3**	**0.46**	**2.6**	**0.085**	Calscience
22	**1.2**	**0.012**	**0.074**	**0.110**	**0.237**	**0.116**	**0.020**	Jones
25	**1.1 ***	**0.0020**	ND<0.00098	**0.038**	**0.0023**	**0.0038**	ND<0.0020	Calscience
28	ND<0.24	ND<0.00098	ND<0.00098	ND<0.00098	ND<0.0020	ND<0.0020	ND<0.0020	Calscience
28	ND<0.2	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	Jones
33	ND<0.24	ND<0.00098	ND<0.00098	**0.0011**	ND<0.0020	ND<0.0020	ND<0.0020	Calscience
35	ND<0.28	ND<0.0012	ND<0.0012	ND<0.0012	ND<0.0023	ND<0.0023	ND<0.0023	Calscience
35	ND<0.2	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	Jones
GP-3	**3/1/2007**							
22	**0.54 ***	ND<0.0010	ND<0.0010	**0.0057**	**0.036**	**0.027**	**0.014**	Calscience
22	ND<0.2	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	Jones
25	**1.3 ***	**0.0022**	ND<0.00086	**0.0046**	**0.0077**	**0.0037**	**0.0019**	Calscience
28	ND<0.28	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0021	ND<0.0021	ND<0.0021	Calscience
28	ND<0.2	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	Jones
33	**0.80 ***	**0.0014**	ND<0.00084	**0.0058**	**0.026**	**0.027**	**0.0093**	Calscience
35	ND<0.28	**0.0014**	**0.0012**	ND<0.0011	ND<0.0021	ND<0.0021	ND<0.0021	Calscience
35**	NA	ND<0.0011	ND<0.0011	ND<0.0011	ND<0.0022	ND<0.0022	ND<0.0022	Calscience
35	ND<0.2	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	Jones
GP-4	**3/1/2007**							
21	**1.2 ***	**0.017**	**0.0057**	**0.76**	**0.039**	**0.052**	**0.012**	Calscience
21	**1.5**	**0.037**	**0.007**	**0.655**	**0.149**	**0.191**	**0.054**	Jones
24	**1.1 ***	**0.0068**	**0.0013**	**0.49**	**0.012**	**0.016**	**0.0040**	Calscience
27	**0.49 ***	**0.0055**	ND<0.0012	**0.031**	ND<0.0023	ND<0.0023	ND<0.0023	Calscience
27	ND<0.2	**0.004**	ND<0.001	**0.033**	ND<0.001	ND<0.001	ND<0.001	Jones
30	ND<0.22	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	Calscience
33	ND<0.21	**0.0011**	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	Calscience
33	ND<0.2	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	Jones
35	ND<0.26	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.0020	Calscience
35	ND<0.2	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	Jones
GP-5	**3/2/2007**							
21	ND<0.2	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	Jones
24	ND<0.48	ND<0.0012	ND<0.0012	**0.0074**	ND<0.0024	ND<0.0024	ND<0.0024	Calscience
27	ND<0.2	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	Jones
30	ND<0.25	ND<0.0011	ND<0.0011	ND<0.0011	ND<0.0021	ND<0.0021	ND<0.0021	Calscience
33	ND<0.2	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	Jones
35	ND<0.2	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	Jones
GP-6	**3/2/2007**							
22	ND<0.2	ND<0.001	ND<0.001	**0.024**	ND<0.001	**0.005**	ND<0.001	Jones
25	**0.82**	ND<0.0012	ND<0.0012	**0.0014**	ND<0.0024	ND<0.0024	ND<0.0024	Calscience
28	ND<0.2	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	Jones
33	ND<0.29	ND<0.0012	ND<0.0012	**0.0019**	ND<0.0023	ND<0.0023	ND<0.0023	Calscience
35	ND<0.2	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	Jones
GP-7	**3/2/2007**							
22	ND<0.2	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	Jones
25	**0.46**	**0.0026**	**0.0014**	**0.0015**	ND<0.0024	ND<0.0024	ND<0.0024	Calscience
28	ND<0.2	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	Jones
33	ND<0.28	**0.0016**	**0.0019**	ND<0.0013	ND<0.0026	ND<0.0026	ND<0.0026	Calscience
35	ND<0.2	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	Jones

Notes:
mg/kg - milligram per kilogram
ND - Not detected, see analytical reports for method detection limits
TPH-g analyzed using EPA Method 8015B
BTEX Compounds, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene analyzed using EPA Method 8260B

* The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantification of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
** Re-analyzed sample GP-3d35 by Calscience for BTEX compounds, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene.

Table 1
Soil Analytical Data
Shell Service Station
25535 Hawthorne, Torrance, California

Sample Location	Sample Name	Sample Depth (feet)	Sample Date	TPH-g mg/kg	Benzene mg/kg	Ethyl-benzene mg/kg	Toluene mg/kg	Total Xylenes mg/kg	MTBE mg/kg	TBA mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg
				EPA 8015 Mod.	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
GP-8	GP-8d22	22	06/22/07	47	0.048	0.51	0.012	0.034	ND< 0.0026	ND< 0.026	ND< 0.0026	ND< 0.0026	ND< 0.0026
GP-9	GP-9d22	22	06/22/07	0.82	ND< 0.0012	0.0097	ND< 0.0012	ND< 0.0024	ND< 0.0024	ND< 0.024	ND< 0.0024	ND< 0.0024	ND< 0.0024
GP-10	GP-10d22	22	06/22/07	ND< 0.6	ND< 0.0014	0.0036	ND< 0.0014	ND< 0.0027	ND< 0.0027	ND< 0.027	0.0059	ND< 0.0027	ND< 0.0027
GP-11	GP-11d22	22	06/22/07	94	ND< 0.094	3.9	ND< 0.094	10.8	ND< 0.23	ND< 4.7	ND< 0.23	ND< 0.23	ND< 0.23
GP-12	GP-12d22	22	06/22/07	1.5	0.0074	0.019	0.0043	0.00315	ND< 0.0019	ND< 0.019	ND< 0.0019	ND< 0.0019	ND< 0.0019
GP-13	GP-13d22	22	06/22/07	1.3	0.0092	0.03	0.0044	0.088	ND< 0.0018	ND< 0.018	ND< 0.0018	ND< 0.0018	ND< 0.0018

Notes:
mg/kg - milligrams per kilogram
ND - Not detected above laboratory detection limits
NA - Not analyzed
TPH-g - Total Petroleum Hydrocarbons as gasoline
TPH-d - Total Petroleum Hydrocarbons as diesel
MTBE - Methyl tert-butyl ether
TBA - Tert-butyl alcohol
DIPE - Di-isopropyl ether
ETBE - Ethyl tert-butyl ether
TAME - Tert-amyl methyl ether
TRPH - Total Recoverable Petroleum Hydrocarbons

APPENDIX D

IMPORTED SOIL CERTIFIED LABORATORY ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Alpha Scientific Corporation
Environmental Laboratories

11-08-2006

Mr. Richard Ko
American Integrated Services
1502 E. Opp Street
Wilmington, CA 90744

Project: 26084
Project Site: Corner of 9th & Flower Street, LA, CA
Sample Date: 11-07-2006
Lab Job No.: A611025

Dear Mr. Ko:

Enclosed please find the analytical report for the sample(s) received by Alpha Scientific Corporation on 11-07-2006 and analyzed by the following EPA methods:

EPA 8015M (Total Petroleum Hydrocarbons)
EPA 8260B (VOCs & Oxygenates by GC/MS)
EPA 6010B/7471A for CAM Metals
EPA 418.1 (TRPH)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

Alpha Scientific Corporation is a CA DHS certified laboratory (Certificate Number 2633). Thank you for giving us the opportunity to serve you. Please feel free to call me at (562) 809-8880 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph.D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.

11-08-2006

Client:	American Integrated Services	Lab Job No.:	A611025
Project:	26084		
Project Site:	Corner of 9th & Flower Street, LA, CA	Date Sampled:	11-07-2006
Matrix:	Soil	Date Received:	11-07-2006
Batch No. for TPH-g:	BMK07-GS1	Date Analyzed:	11-07-2006
Batch No. for TPH-d&o:	EK07-DS1	Date Analyzed:	11-07-2006
		Date Reported:	11-08-2006

EPA 8015M (Total Petroleum Hydrocarbons)
Reporting Units: mg/kg (ppm)

Sample ID	Lab ID	C4-C12 (Gasoline range TPH)	C13-C23 (Diesel range TPH)	C24-C40 (Oil range TPH)
Reporting Limit		0.5	5	50
Method Blank		ND	ND	ND
SB-1	A611025-1	ND	ND	ND

Note: Gasoline Range TPH are obtained from purge & trap analysis.

ND: Not Detected (at the specified limit).

Client: American Integrated Services
Project: 26084

Lab Job No.: A611025
Matrix: Soil

Date Reported:11-08-2006
Date Sampled: 11-07-2006

EPA 8260B (VOCs by GC/MS, Page 1 of 2)
Reporting Unit: µg/kg(ppb)

DATE ANALYZED		11-07-06	11-07-06				
DILUTION FACTOR		1	1				
LAB SAMPLE I.D.			A611025-1				
CLIENT SAMPLE I.D.			SB-1				
COMPOUND	MDL	MB					
Dichlorodifluoromethane	5	ND	ND				
Chloromethane	5	ND	ND				
Vinyl Chloride	5	ND	ND				
Bromomethane	5	ND	ND				
Chloroethane	5	ND	ND				
Trichlorofluoromethane	5	ND	ND				
1,1-Dichloroethene	5	ND	ND				
Iodomethane	5	ND	ND				
Methylene Chloride	5	ND	ND				
trans-1,2-Dichloroethene	5	ND	ND				
1,1-Dichloroethane	5	ND	ND				
2,2-Dichloropropane	5	ND	ND				
cis-1,2-Dichloroethene	5	ND	ND				
Bromochloromethane	5	ND	ND				
Chloroform	5	ND	ND				
1,2-Dichloroethane (EDC)	5	ND	ND				
1,1,1-Trichloroethane	5	ND	ND				
Carbon tetrachloride	5	ND	ND				
1,1-Dichloropropene	5	ND	ND				
Benzene	2	ND	ND				
Trichloroethene	5	ND	ND				
1,2-Dichloropropane	5	ND	ND				
Bromodichloromethane	5	ND	ND				
Dibromomethane	5	ND	ND				
Trans-1,3-Dichloropropene	5	ND	ND				
cis-1,3-Dichloropropene	5	ND	ND				
1,1,2-Trichloroethane	5	ND	ND				
1,3-Dichloropropane	5	ND	ND				
Dibromochloromethane	5	ND	ND				
2-Chloroethylvinyl ether	5	ND	ND				
Bromoform	5	ND	ND				
Isopropylbenzene	5	ND	ND				
Bromobenzene	5	ND	ND				
Toluene	2	ND	ND				

Client: American Integrated Services | Lab Job No.: A611025 | Date Reported:11-08-2006
Project: 26084 | Matrix: Soil | Date Sampled: 11-07-2006

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: ppb

COMPOUND	MDL	MB	SB-1				
Tetrachloroethene	5	ND	ND				
1,2-Dibromoethane(EDB)	5	ND	ND				
Chlorobenzene	5	ND	ND				
1,1,1,2-Tetrachloroethane	5	ND	ND				
Ethylbenzene	2	ND	ND				
Total Xylenes	4	ND	ND				
Styrene	5	ND	ND				
1,1,2,2-Tetrachloroethane	5	ND	ND				
1,2,3-Trichloropropane	5	ND	ND				
n-Propylbenzene	5	ND	ND				
2-Chlorotoluene	5	ND	ND				
4-Chlorotoluene	5	ND	ND				
1,3,5-Trimethylbenzene	5	ND	ND				
tert-Butylbenzene	5	ND	ND				
1,2,4-Trimethylbenzene	5	ND	ND				
Sec-Butylbenzene	5	ND	ND				
1,3-Dichlorobenzene	5	ND	ND				
p-Isopropyltoluene	5	ND	ND				
1,4-Dichlorobenzene	5	ND	ND				
1,2-Dichlorobenzene	5	ND	ND				
n-Butylbenzene	5	ND	ND				
1,2,4-Trichlorobenzene	5	ND	ND				
1,2-Dibromo-3-Chloropropane	5	ND	ND				
Hexachlorobutadiene	5	ND	ND				
Naphthalene	5	ND	ND				
1,2,3-Trichlorobenzene	5	ND	ND				
Acetone	50	ND	ND				
2-Butanone (MEK)	50	ND	ND				
Carbon disulfide	50	ND	ND				
4-Methyl-2-pentanone	50	ND	ND				
2-Hexanone	50	ND	ND				
Vinyl Acetate	50	ND	ND				
MTBE	5	ND	ND				
ETBE	5	ND	ND				
DIPE	5	ND	ND				
TAME	5	ND	ND				
TBA	50	ND	ND				

MB=Method Blank; MDL=Method Detection Limit; ND=Not Detected (below DF MDL);

11-08-2006

Client:	American Integrated Services	Lab Job No.:	A611025
Project:	26084		
Project Site:	Corner of 9th & Flower Street, LA, CA	Date Sampled:	11-07-2006
Matrix:	Soil	Date Received:	11-07-2006
Batch No.:	1107-TS1	Date Analyzed:	11-07-2006
		Date Reported:	11-08-2006

EPA Method 418.1 (TRPH)
Reporting Units: mg/kg (ppm)

Sample ID	Lab ID	TRPH	Reporting Limit
Method Blank		ND	10
SB-1	A611025-1	ND	10

ND: Not Detected (below RL)

11-08-2006

Client: American Integrated Services
Project: 26084
Project Site: Corner of 9th & Flower Street, LA, CA
Matrix: Soil
Digestion Method: EPA 3050B
Batch No.: 1108-MS1

Lab Job No.: A611025

Date Sampled: 11-07-2006
Date Received: 11-07-2006
Date Digested: 11-07-2006
Date Analyzed: 11-08-2006
Date Reported: 11-08-2006

EPA 6010B/7471A for Cam Metals (TTLC)
Reporting Units: mg/kg (ppm)

Element	EPA Method	Method Blank	A611025-1 SB-1				Reporting Limit
Antimony (Sb)	6010B	ND	ND				2
Arsenic (As)	6010B	ND	2.4				0.5
Barium (Ba)	6010B	ND	69				2
Beryllium (Be)	6010B	ND	ND				2
Cadmium (Cd)	6010B	ND	ND				2
Chromium (Cr)	6010B	ND	ND				2
Cobalt (Co)	6010B	ND	4.9				2
Copper (Cu)	6010B	ND	8.7				2
Lead (Pb)	6010B	ND	ND				2
Mercury (Hg)	7471A	ND	ND				0.05
Molybdenum (Mo)	6010B	ND	ND				2
Nickel (Ni)	6010B	ND	ND				2
Selenium (Se)	6010B	ND	ND				0.5
Silver (Ag)	6010B	ND	ND				2
Thallium (Tl)	6010B	ND	ND				2
Vanadium (V)	6010B	ND	40				2
Zinc (Zn)	6010B	ND	40				1

PQL: Practical Quantitation Limit.

ND: Not Detected (at the specified limit).

Alpha Scientific Corporation
Environmental Laboratories

11-10-2006

Mr. David Herrera
American Integrated Services
1502 E. Opp Street
Wilmington, CA 90744

Project: Loynes/Costa Del Sol
Project Site: Loynes/Costa Del Sol, Long Beach, CA
Sample Date: 11-09-2006
Lab Job No.: A611040

Dear Mr. Herrera:

Enclosed please find the analytical report for the sample(s) received by Alpha Scientific Corporation on 11-09-2006 and analyzed by the following EPA methods:

EPA 8015M (Total Petroleum Hydrocarbons)
EPA 8260B (VOCs & Oxygenates by GC/MS)
EPA 6010B/7471A for CAM Metals
EPA 418.1 (TRPH)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

Alpha Scientific Corporation is a CA DHS certified laboratory (Certificate Number 2633). Thank you for giving us the opportunity to serve you. Please feel free to call me at (562) 809-8880 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph.D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.

11-10-2006

Client:	American Integrated Services	Lab Job No.:	A611040
Project:	Loynes/Costa Del Sol		
Project Site:	Loynes/Costa Del Sol, Long Beach, CA	Date Sampled:	11-09-2006
Matrix:	Soil	Date Received:	11-09-2006
Batch No. for TPH-g:	EMK09-GS1	Date Analyzed:	11-09-2006
Batch No. for TPH-d&o:	EK09-DS1	Date Analyzed:	11-09-2006
		Date Reported:	11-10-2006

EPA 8015M (Total Petroleum Hydrocarbons)
Reporting Units: mg/kg (ppm)

Sample ID	Lab ID	C4-C12 (Gasoline range TPH)	C13-C23 (Diesel range TPH)	C24-C40 (Oil range TPH)
Reporting Limit		0.5	5	50
Method Blank		ND	ND	ND
S1	A611040-1	ND	11	99

Note: Gasoline Range TPH are obtained from purge & trap analysis.

ND: Not Detected (at the specified limit).

Client: American Integrated Services
Project: Loynes/Costa Del Sol

Lab Job No.: A611040
Matrix: Soil

Date Reported:11-10-2006
Date Sampled: 11-09-2006

EPA 8260B (VOCs by GC/MS, Page 1 of 2)
Reporting Unit: µg/kg(ppb)

DATE ANALYZED		11-09-06	11-09-06				
DILUTION FACTOR		1	1				
LAB SAMPLE I.D.			A611040-1				
CLIENT SAMPLE I.D.			S1				
COMPOUND	**MDL**	MB					
Dichlorodifluoromethane	5	ND	ND				
Chloromethane	5	ND	ND				
Vinyl Chloride	5	ND	ND				
Bromomethane	5	ND	ND				
Chloroethane	5	ND	ND				
Trichlorofluoromethane	5	ND	ND				
1,1-Dichloroethene	5	ND	ND				
Iodomethane	5	ND	ND				
Methylene Chloride	5	ND	ND				
trans-1,2-Dichloroethene	5	ND	ND				
1,1-Dichloroethane	5	ND	ND				
2,2-Dichloropropane	5	ND	ND				
cis-1,2-Dichloroethene	5	ND	ND				
Bromochloromethane	5	ND	ND				
Chloroform	5	ND	ND				
1,2-Dichloroethane (EDC)	5	ND	ND				
1,1,1-Trichloroethane	5	ND	ND				
Carbon tetrachloride	5	ND	ND				
1,1-Dichloropropene	5	ND	ND				
Benzene	2	ND	ND				
Trichloroethene	5	ND	ND				
1,2-Dichloropropane	5	ND	ND				
Bromodichloromethane	5	ND	ND				
Dibromomethane	5	ND	ND				
Trans-1,3-Dichloropropene	5	ND	ND				
cis-1,3-Dichloropropene	5	ND	ND				
1,1,2-Trichloroethane	5	ND	ND				
1,3-Dichloropropane	5	ND	ND				
Dibromochloromethane	5	ND	ND				
2-Chloroethylvinyl ether	5	ND	ND				
Bromoform	5	ND	ND				
Isopropylbenzene	5	ND	ND				
Bromobenzene	5	ND	ND				
Toluene	2	ND	ND				

Client: American Integrated Services | Lab Job No.: A611040 | Date Reported:11-10-2006
Project: Loynes/Costa Del Sol | Matrix: Soil | Date Sampled: 11-09-2006

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: ppb

COMPOUND	MDL	MB	S1				
Tetrachloroethene	5	ND	ND				
1,2-Dibromoethane(EDB)	5	ND	ND				
Chlorobenzene	5	ND	ND				
1,1,1,2-Tetrachloroethane	5	ND	ND				
Ethylbenzene	2	ND	ND				
Total Xylenes	4	ND	ND				
Styrene	5	ND	ND				
1,1,2,2-Tetrachloroethane	5	ND	ND				
1,2,3-Trichloropropane	5	ND	ND				
n-Propylbenzene	5	ND	ND				
2-Chlorotoluene	5	ND	ND				
4-Chlorotoluene	5	ND	ND				
1,3,5-Trimethylbenzene	5	ND	ND				
tert-Butylbenzene	5	ND	ND				
1,2,4-Trimethylbenzene	5	ND	ND				
Sec-Butylbenzene	5	ND	ND				
1,3-Dichlorobenzene	5	ND	ND				
p-Isopropyltoluene	5	ND	ND				
1,4-Dichlorobenzene	5	ND	ND				
1,2-Dichlorobenzene	5	ND	ND				
n-Butylbenzene	5	ND	ND				
1,2,4-Trichlorobenzene	5	ND	ND				
1,2-Dibromo-3-Chloropropane	5	ND	ND				
Hexachlorobutadiene	5	ND	ND				
Naphthalene	5	ND	ND				
1,2,3-Trichlorobenzene	5	ND	ND				
Acetone	50	ND	ND				
2-Butanone (MEK)	50	ND	ND				
Carbon disulfide	50	ND	ND				
4-Methyl-2-pentanone	50	ND	ND				
2-Hexanone	50	ND	ND				
Vinyl Acetate	50	ND	ND				
MTBE	5	ND	ND				
ETBE	5	ND	ND				
DIPE	5	ND	ND				
TAME	5	ND	ND				
TBA	50	ND	ND				

MB=Method Blank; MDL=Method Detection Limit; ND=Not Detected (below DF MDL);

11-10-2006

Client:	American Integrated Services	Lab Job No.:	A611040
Project:	Loynes/Costa Del Sol		
Project Site:	Loynes/Costa Del Sol, Long Beach, CA	Date Sampled:	11-09-2006
Matrix:	Soil	Date Received:	11-09-2006
Batch No.:	1109-TS1	Date Analyzed:	11-09-2006
		Date Reported:	11-10-2006

EPA Method 418.1 (TRPH)
Reporting Units: mg/kg (ppm)

Sample ID	Lab ID	TRPH	Reporting Limit
Method Blank		ND	10
S1	A611040-1	197	10

ND: Not Detected (below RL)

11-10-2006

Client:	American Integrated Services	Lab Job No.:	A611040
Project:	Loynes/Costa Del Sol		
Project Site:	Loynes/Costa Del Sol, Long Beach, CA	Date Sampled:	11-09-2006
Matrix:	Soil	Date Received:	11-09-2006
Digestion Method:	EPA 3050B	Date Digested:	11-09-2006
Batch No.:	1110-MS1	Date Analyzed:	11-10-2006
		Date Reported:	11-10-2006

EPA 6010B/7471A for Cam Metals (TTLC)
Reporting Units: mg/kg (ppm)

Element	EPA Method	Method Blank	A611040-1 S1				Reporting Limit
Antimony (Sb)	6010B	ND	ND				2
Arsenic (As)	6010B	ND	6.4				0.5
Barium (Ba)	6010B	ND	144				2
Beryllium (Be)	6010B	ND	ND				2
Cadmium (Cd)	6010B	ND	ND				2
Chromium (Cr)	6010B	ND	ND				2
Cobalt (Co)	6010B	ND	9.6				2
Copper (Cu)	6010B	ND	35				2
Lead (Pb)	6010B	ND	37				2
Mercury (Hg)	7471A	ND	0.22				0.05
Molybdenum (Mo)	6010B	ND	ND				2
Nickel (Ni)	6010B	ND	12				2
Selenium (Se)	6010B	ND	ND				0.5
Silver (Ag)	6010B	ND	ND				2
Thallium (Tl)	6010B	ND	ND				2
Vanadium (V)	6010B	ND	85				2
Zinc (Zn)	6010B	ND	85				1

PQL: Practical Quantitation Limit.

ND: Not Detected (at the specified limit).

11-10-2006

EPA 8015M (TPH)
Batch QA/QC Report

Client:	American Integrated Services	Lab Job No:	A611040
Project:	Loynes/Costa Del Sol		
Matrix:	Soil	Lab Sample ID:	A611040-1
Batch No.:	EMK09-GS1	Date Analyzed:	11-09-2006

I. MS/MSD Report
Unit: ppb

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-G	ND	1,000	930	1,140	93.0	114.0	20.3	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	%Rec Accept. Limit
TPH-G	932	1,000	93.2	80-120

ND: Not Detected (at the specified limit).

11-10-2006

EPA 8015M(TPH)
Batch QA/QC Report

Client:	American Integrated Services	Lab Job No:	A611040
Project:	Loynes/Costa Del Sol		
Matrix:	Soil	Lab Sample ID:	AG611041-1
Batch No.:	EK09-DS1	Date Analyzed:	11-09-2006

I. MS/MSD Report
Unit: ppm

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-D	ND	200	194	195	97.0	97.5	0.5	30	70-130

II. LCS Result
Unit: ppm

Analyte	LCS Report Value	True Value	Rec.%	%Rec Accept. Limit
TPH-D	527	500	105.4	80-120

ND: Not Detected (at the specified limit).

11-10-2006

EPA 8260B
Batch QA/QC Report

Client: American Integrated Services
Project: Loynes/Costa Del Sol
Matrix: Soil
Batch No.: 1109-VOES1

Lab Job No: A611040
Lab Sample ID: A611040-1
Date Analyzed: 11-09-2006

I. MS/MSD Report
Unit: ppb

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1,1-Dichloroethene	ND	20	19.4	19.4	97.0	97.0	0.0	30	70-130
Benzene	ND	20	18.7	20.6	93.5	103.0	9.7	30	70-130
Trichloro-ethene	ND	20	23.1	22.9	115.5	114.5	0.9	30	70-130
Toluene	ND	20	22.2	22.0	111.0	110.0	0.9	30	70-130
Chlorobenzene	ND	20	21.7	22.1	108.5	110.5	1.8	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	%Rec Accept. Limit
1,1-Dichloroethene	50.0	50.0	100.0	80-120
Benzene	52.5	50.0	105.0	80-120
Trichloro-ethene	59.2	50.0	118.4	80-120
Toluene	55.5	50.0	111.0	80-120
Chlorobenzene	57.2	50.0	114.4	80-120

ND: Not Detected

11-10-2006

EPA 418.1 (TRPH)
Batch QA/QC Report

Client:	American Integrated Services	Lab Job No:	A611040
Project:	Loynes/Costa Del Sol		
Matrix:	Soil	Lab Sample ID:	SS1107-1
Batch No.:	1109-TS1	Date Analyzed:	11-09-2006

I. MS/MSD Report
Unit: ppm

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TRPH	ND	20	21.3	20.5	106.5	102.5	3.8	30	70-130

II. LCS Report
Unit: ppm

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit
TRPH	20.5	20	102.5	80-120

ND: Not Detected (at the specified limit)

11-10-2006

EPA 6010B/7471A for Cam Metals (TTLC)
Batch QA/QC Report

Client:	American Integrated Services	Lab Job No.:	A611040
Project:	Loynes/Costa Del Sol		
Matrix:	Soil	Lab Sample ID:	LCS
Batch No.:	1110-MS1	Date Analyzed:	11-10-2006

LCS/LCSD Report
Unit: ppm

Analyte	EPA Method	MB Conc.	LCS %Rec.	LCSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Antimony (Sb)	6010B	ND	99.0	99.0	0.0	30	70-130
Arsenic (As)	6010B	ND	105.0	102.0	2.9	30	70-130
Barium (Ba)	6010B	ND	101.0	102.0	1.0	30	70-130
Beryllium (Be)	6010B	ND	100.0	100.0	0.0	30	70-130
Cadmium (Cd)	6010B	ND	113.0	110.0	2.7	30	70-130
Chromium (Cr)	6010B	ND	99.0	98.0	1.0	30	70-130
Cobalt (Co)	6010B	ND	103.0	102.0	1.0	30	70-130
Copper (Cu)	6010B	ND	107.0	106.0	0.9	30	70-130
Lead (Pb)	6010B	ND	115.0	111.0	3.5	30	70-130
Mercury (Hg)	7471A	ND	95.0	90.0	5.4	30	70-130
Molybdenum (Mo)	6010B	ND	98.0	98.0	0.0	30	70-130
Nickel (Ni)	6010B	ND	112.0	109.0	2.7	30	70-130
Selenium (Se)	6010B	ND	113.0	111.0	1.8	30	70-130
Silver (Ag)	6010B	ND	104.0	106.0	1.9	30	70-130
Thallium (Tl)	6010B	ND	98.0	89.0	9.6	30	70-130
Vanadium (V)	6010B	ND	109.0	106.0	2.8	30	70-130
Zinc (Zn)	6010B	ND	126.0	118.0	6.6	30	70-130

ND: Not Detected

ALPHA SCIENTIFIC CORPORATION

CHAIN OF CUSTODY RECORD

Lab Job Number A611040-1

Client: AMERICAN INTEGRATED SERVICES

Address 1502 E. OPP ST., WILMINGTON, CA 90744

Report Attention: DAVID HERRERA | Phone 310 522-1168 | Fax 310 522-0474 | Sampled by CYRUS YONG

Project Name/No.: - | Project Site: LOYNES/COSTA DEL SOL, LONG BEACH, CA

T.A.T. Requested: ☒ Rush 8 12 24 hrs ☐ 2-3 days ☐ Normal

Sample Condition: ☒ Chilled ☒ Intact ☐ Sample seals

Client Sample ID	Lab Sample ID	Sample Collect Date	Sample Collect Time	Matrix Type	Sample Preserv	No.,type* & size of container	8015M (Gasoline)	8015M(Diesel) / 8LV	8260B(BTEX, Oxygenates)	8260B (VOCs)	8270C(SVOCs)	CAM Metals	418.1 TRPH	Remark
S1	A611040-1	11/09/06	8:30A	SOIL	ICE	1-4oz JAR	X	X		X		X	X	

Analyses Requested

Relinquished by	Company	Date	Time	Received by	Company	Date	Time
[signature]	AIS	11/09/06	3:55P	[signature]	ASC	11-9-06	3:55pm
Relinquished by	Company	Date	Time	Received by	Company	Date	Time

Container types: M=Metal Tube, A=Air Bag, P=Plastic bottle, G=Glass bottle, V=VOA vial

Alpha Scientific Corporation
16760 Gridley Road
Cerritos, CA 90703
Tel: (562) 809-8880
Fax: (562) 809-8801

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.
Distribution: WHITE with report, PINK to courier.

APPENDIX E

AIR MONITORING SHEETS AND 1166 PERMIT

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	FORMER SHELL GAS STATION 25535 HAWTHORNE, TORRANCE
Reference No(s). 164009 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information		Calibration Data		Monitoring Personnel		Excavation Summary (Upon completion of each page)	
Brand:	THERMO	Gas:	150	Name:	JONATHAN GLORIA	Total Cubic Yds (This page)	26 Yds
Model:	580B - OVM	Date	7-9-07	Company:	Delta	Total Cubic Yds (To date)	68 Yds
Type	PID	By	CHAD	Phone:	626-256-6662	Removed from Site (To date)	Ø

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment	
	SP-1					SP-2				
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading		
1200	0.0	4.3	0.0	LAH 31	1200	1.3	4.3	5.59	LAH/31	
1215	0.0		0.0	LAH 31	1215	22.9		98.47	LAH 31	
1230	0.0		0.0	LAH 31	1230	5.4		23.22	LAH 31	~ 75 ft
1245	0.0		0.0	LAH 31	1245	3.2		13.76	LAH/31	
1300	0.0		0.0	LAH 31	1300	1.7		7.31	LAH31	
1315	0.0		0.0	LAH 31	1315	4.2		16.06	LAH 31	
1330	0.0		0.0	LAH 31	1330	2.5		10.75	LAH 31	
1345	0.0		0.0	LAH 31	1345	2.3		9.89	LAH 31	← 1337 77 ft

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7.9.07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	FORMER SHELL GAS STATION 25535 HAWTHORNE, TORRANCE
Reference No(s). ~~164009~~ 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information	Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)
Brand: THERMO	Gas: ISO	Name: JONATHAN GUERRA	Total Cubic Yds (This page): 42 Yds
Model: 5803 OVM	Date: 7-9-07	Company: Delta	Total Cubic Yds (To date): 68 Yds
Type: PID	By: CHAD	Phone: 626-256-6662	Removed from Site (To date): Ø

Time	VOC Concentration (PPMV) @ Excavated Load			Comment SP-1	Time	VOC Concentration (PPMV)@ Excavated Load			Comment SP-2
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
0830	0.0	4.3		LAH 31	0845	39.6	4.3	170.28	LAH 31
0915	4.2			LAH 31	0900	56.5		242.95	LAH 31
0930	1.5			LAH 31	0930	18.7		80.41	LAH 31
0945	0.0			LAH 31	0945	14.0		60.2	LAH 31
1000	0.0			LAH 31	1000	13.2		56.76	LAH 31
1015	0.0			LAH 31	1015	2.3		9.89	LAH 31
1030	0.0			LAH 31	1030	1.3		5.59	LAH 31
1045	0.0			LAH 31	1045	1.0		4.3	LAH 31
1100	0.0			LAH 31	1100	1.0		4.3	LAH 31 — 60 ft
1115	0.0			LAH 31	1115	4.3		18.49	LAH 31
1130	0.0			LAH 31	1130	1.0		4.3	LAH 31
1145	0.0			LAH 31	1145	1.0		4.3	LAH 31

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7-9-07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	FORMER SHELL GAS STATION 25535 HAWTHORNE, TORRANCE
Reference No(s). ~~164009~~ 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information		Calibration Data		Monitoring Personnel		Excavation Summary (Upon completion of each page)	
Brand:	THERMO	Gas:	ISO	Name:	JONATHAN GLORIA	Total Cubic Yds (This page)	25 YDS
Model:	580B OVM	Date	7.10.07	Company:	Delta	Total Cubic Yds (To date)	61 YDS
Type	PID	By	JONATHAN	Phone:	626-256-6662	Removed from Site (To date)	55 YDS

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment	
Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-1	Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-2	
1100	0.0	4.3	0.0	LAH 30	1100	1.0	4.3	4.3	LAH 30	
1115	0.0		0.0	LAH 30	1115	1.2		5.16	LAH 30	
1130	0.0		0.0	LAH 30	1130	4.5		19.35	LAH 30	— 52.5 ft
1145	0.0		0.0	LAH 30	1145	2.4		10.32	LAH 30	
1200	0.0		0.0	LAH 30	1200	2.6		11.18	LAH 30	
1230	0.0		0.0	LAH 30	1230	1.7		7.31	LAH 30	
1245	0.0		0.0	LAH 30	1245	1.9		8.17	LAH 30	— 62.5 ft
1300	0.0		0.0	LAH 30	1300	1.7		7.31	LAH 30	
1315	0.0		0.0	LAH 30	1315	1.7		7.31	LAH 30	
1330	0.0		0.0	LAH 30	1330	2.0		8.6	LAH 30	
1345	0.0		0.0	LAH 30	1345	128.0		550.4	LAH 30	
1400	0.0	↓	0.0	LAH 30	1400	2.8	↓	12.04	LAH 30	— 72.5

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7.10.07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	FORMER SHELL GAS STATION 25535 HAWTHORNE, TORRANCE
Reference No(s). ~~164009~~ 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information		Calibration Data		Monitoring Personnel		Excavation Summary (Upon completion of each page)	
Brand:	THERMO	Gas:	150	Name:	JONATHAN GLORIA	Total Cubic Yds (This page)	36 YDS
Model:	580 B OVM	Date	7.10.07	Company:	DELTA	Total Cubic Yds (To date)	61 YDS
Type	PID	By	JONATHAN	Phone:	626-256-6662	Removed from Site (To date)	55 YDS

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment	
Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-1	Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-2	
0800	10.6	4.3	45.58	LAH 30	0800	400.0	4.3	1720.0	LAH 30	
0815	1.5		6.45	LAH 30	0815	395.0		1698.5	LAH 30	
0830	2.1		9.03	LAH 30	0830	121.0		520.3	LAH 30	
0845	2.0		8.6	LAH 30	0845	165.0		709.5	LAH 30	– 32.5 ft
0900	1.5		6.45	LAH 30	0900	155.0		666.5	LAH 30	
0915	1.0		4.3	LAH 30	0915	90.5		389.15	LAH 30	
0930	1.0		4.3	LAH 30	0930	21.0		90.3	LAH 30	
0945	1.0		4.3	LAH 30	0945	8.0		34.4	LAH 30	– 42.5 ft
1000	1.0		4.3	LAH 30	1000	7.6		32.68	LAH 30	
1015	0.0		0.0	LAH 30	1015	6.5		27.95	LAH 30	
1030	0.0		0.0	LAH 30	1030	3.6		15.48	LAH 30	– 47.5 ft
1045	0.0	↓	0.0	LAH 30	1045	2.0	↓	8.6	LAH 30	

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SIGNATURE: _____ DATE: 7.10.07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	FORMER SHELL GAS STATION 25535 HAWTHORNE, TORRANCE
Reference No(s). 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information		Calibration Data		Monitoring Personnel		Excavation Summary (Upon completion of each page)	
Brand:	THERMO	Gas:	150	Name:	JONATHAN GLORIA	Total Cubic Yds (This page)	36
Model:	580 B OVM	Date	7-10-07	Company:	DELTA	Total Cubic Yds (To date)	
Type	PID	By	JONATHAN	Phone:	626-256-6662	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment CLEAN SP-1: SP-3	Time	VOC Concentration (PPMV)@ Excavated Load			Comment DIRTY SP-2	
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading		
0815	1.3	4.3	5.59	LAH 23 SP-3	0815	2.7	4.3	11.61	SP-2 LAH 23	– 18ft LAH 23 ↓
	0.0		0.0	SP-1						
0830	1.1		4.73	LAH 23 SP-3	0830	7.3		31.39	SP-2 LAH 23	
	0.0		0.0	SP 1						
0845	0.0		0.0	LAH 23 SP-3	0845	6.1		26.23	SP-2 LAH 23	– 30ft
	0.0		0.0	SP1						
0900	0.0		0.0	LAH 23 SP-3	0900	5.4		23.22	SP-2 LAH 23	
	0.0		0.0	SP-1						
0930	0.0		0.0	LAH 23 SP-3	0930	5.4		23.22	SP-2 LAH 23	
	0.0		0.0	SP-1						
0945	0.0		0.0	LAH 23 SP3	0945	4.3		18.49	SP-2 LAH 23	— 40ft
	0.0		0.0	SP-1						
10:00	0.6		0.0	SP-3 LAH 23	1000	5.8		24.94	SP-2 LAH 23	
	0.0		0.0	SP-1 LAH 23						
10:15	0.0		0.0	SP-3 LAH 23	1015	4.8		20.64	SP-2 LAH 23	
	0.0		0.0	SP-1						
10:30	0.0		0.0	SP-3 LAH 23	1030	3.6		15.48	SP-2 LAH 23	
	0.0		0.0	SP-1						
10:45	0.0		0.0	SP-3 LAH 23	1045	4.2		18.06	SP-2 LAH 23	
	0.0		0.0	SP-1						
11:06	0.6		0.0	SP-3 LAH 23	1100	6.8		29.24	SP-2 LAH 23	– 50ft
	0.0		0.0	SP 1						
11:15	0.6		0.0	SP-3 LAH 23	1115	2.1		9.03	SP-2 LAH 23	
	0.0		0.0	SP-1						

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7-11-07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	Former SHELL Gas STATION 25535 HAWTHORNE, TORRANCE
Reference No(s). 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information	Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: THERMO	Gas: 150	Name: JONATHAN GUERRA	Total Cubic Yds (This page)	
Model: 580B OVM	Date 7-10-07	Company: DELTA	Total Cubic Yds (To date)	
Type PID	By JONATHAN	Phone: 626-256-6662	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment CLEAN	Time	VOC Concentration (PPMV)@ Excavated Load			Comment DIRTY
Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-1:SP3	Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-2
1430	0.6 / 0.6	4.3	0.0 / 0.0	SP-3 / SP-1	1430	0.0	4.3	0.0	SP-2 LAH13
1445	0.6 / 0.0	4.3	0.0 / 0.0	SP-3 / SP-1	1445	0.0	4.3	0.0	SP-2 LAH13
1500	0.0 / 0.0	4.3	0.0 / 0.0	SP3 / SP-1	1500	0.0	4.3	0.0	SP-2 LAH13

— 40 FT

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7-11-07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	FORMER SHELL GAS STATION 25535 HAWTHORNE, TORRANCE
Reference No(s). 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information	Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: THERMO	Gas: ISO	Name: JONATHAN GUERRA	Total Cubic Yds (This page)	
Model: 580B ovm	Date 7.10.07	Company: Delta	Total Cubic Yds (To date)	
Type PID	By JONATHAN	Phone: 626-256-6662	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment CLEAN
Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-1 : SP-3
1130	0.0	4.3	0.0	SP-3
	0.0		0.0	SP-1
1145	0.0		0.0	SP-3
	0.0		0.0	SP-1
1200	0.0		0.0	SP-3
	0.0		0.0	SP-1
1215	0.0		0.0	SP3
	0.0		0.0	SP-1
1230	0.0		0.0	SP-3 LAH13
	0.0		0.0	SP-1
1245	0.0		0.0	SP-3 LAH13
	0.0		0.0	SP-1
1300	0.0		0.0	SP-3 LAH13
	0.0		0.0	SP-1
1315	0.0		0.0	SP-3 LAH13
	0.0		0.0	SP-1
1330	0.0		0.0	SP-3
	0.0		0.0	SP-1
1345	0.0		0.0	SP-3
	0.0		0.0	SP-1
1400	0.0		0.0	SP-3
	0.0		0.0	SP-1
1415	0.0		0.0	SP-3
	0.0		0.0	SP-1

Time	VOC Concentration (PPMV)@ Excavated Load			Comment DIRTY SP-2
Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
1130	1.2	4.3	5.16	SP-2
1145	1.0		4.3	SP-2
1200	1.3		5.59	SP-2
1215	1.4		6.02	SP-2
1230	1.2		5.16	SP-2
1245	1.2		5.16	SP-2
1300	0.0		0.0	SP-2 LAH13
1315	0.0		0.0	SP-2 LAH13
1330	0.0		0.0	SP-2 LAH13
1345	0.0		0.0	SP-2 LAH13
1400	0.0		0.0	SP-2 LAH13
1415	0.0		0.0	SP-2 LAH13

- 30 ft LAH13 ↓

- 35 ft

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7-11-07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	Former Shell Service Station
Reference No(s). 164476	25535 Hawthorne Blvd., Torrance, CA

Plan #: 466039 I.D.#: 800379

Monitor Information	Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: Thermo	Gas: Isobutylene 100.0 ppm	Name: Wing Chow	Total Cubic Yds (This page)	64
Model: 580B OVM	Date: 7/12/07 101.1 ppm	Company: Delta Consultants, Inc	Total Cubic Yds (To date)	
Type: PID	By: Wing Chow	Phone: 626 256-6662	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-1 SP-3 SP-3	Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-2 Borehole
1120	0.2 0.0	4.3	0.9 0.0			0.6 NA	4.3	2.6 NA	
1135	0.0 0.0		0.0 0.0	Began on LAH-16		3.4 0.0		14.6 0.0	
1150	0.0 0.0		0.0 0.0			2.5 0.4		10.8 1.7	
1205	0.4 0.0		1.7 0.0			0.0 0.0		0.0 0.0	
1220	0.0 0.0		0.0 0.0			0.0 NA		0.0 NA	Drilling paused
1235	0.0 0.0		0.0 0.0			0.0 NA		0.0 NA	Drilling paused
1250	0.0 0.0		0.0 0.0			1.5 NA		6.5 NA	V
1305	0.0 0.0		0.0 0.0			0.2 NA		0.9 NA	V
1320	0.0 0.0		0.0 0.0			5.2 0.0		0.9 0.0	
1335	0.0 0.0		0.0 0.0			0.0 0.0		0.0 0.0	
1350	0.0 0.0		0.0 0.0			0.0 NA		0.0 NA	Drilling paused
1405	0.0 0.0		0.0 0.0			0.0 NA		0.0 NA	Ended drilling

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7/12/07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	Former Shell Service Station
Reference No(s). 164476	25535 Hawthorne Blvd. Torrance, CA

Plan #: 466039 I.D.#: 800379

Monitor Information	Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)
Brand: Thermo	Gas: Isobutylene LOD PPM	Name: Wing Chow	Total Cubic Yds (This page): (see next pg)
Model: 580B a/M	Date: 7/12/07 101.1 PPM	Company: Data Consultants, Inc	Total Cubic Yds (To date):
Type: PID	By: Wing Chow	Phone: (626) 350 6662	Removed from Site (To date):

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-1 SP-3 SP-3	Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-2 Borehole
SP-1 SP-3 0820	0.2 0.0	4.3	0.9 0.0	Began on LAH-24		4.7 2.8	4.3	20.2 12.0	SP-2 Borehole
0835	0.4 2.6		1.7 11.1			15.0 13.7		64.5 58.9	Covered SP-2 w/ Sheets
0850	0.2 0.0		0.9 0.0			12.7 NA		54.6 NA	Soil→ SP-2
0905	0.6 0.0		2.6 0.0			0.6 NA		2.6 NA	Drilling paused
0920	0.2 0.0		0.9 0.0			0.4 NA		1.7 NA	Drilling paused
0935	0.4 0.0		1.7 0.0			0.5 0.0		2.2 NA	Drilling paused
0950	0.4 0.0		1.7 0.0			0.2 NA		0.9 NA	Drilling paused
1005	0.4 0.0		1.7 0.0			0.2 NA		0.9 NA	
1020	0.2 0.0		0.9 0.0			0.2 0.0		0.9 0.0	
1035	0.4 0.0		1.7 0.0			0.4 0.0		1.7 0.0	
1050	0.2 0.0		0.9 0.0			0.2 0.0		0.9 0.0	
1105	0.0 0.0		0.0 0.0			1.0 NA		4.3 NA	

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7/12/07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	Former SHELL gas station 25535 HAWTHORNE, Torrance
Reference No(s). 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information		Calibration Data		Monitoring Personnel		Excavation Summary (Upon completion of each page)	
Brand:	THERMO	Gas:	150	Name:	JONATHAN GLOVER	Total Cubic Yds (This page)	0
Model:	5800 OVM	Date	7-13-07	Company:	Delta	Total Cubic Yds (To date)	48
Type	PID	By	JONATHAN	Phone:	626-256-6662	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-1 SP-3	Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-2
1115	0.6 / 0.0	4.3	0.0 / 0.0	SP-1 / SP-3	1115	0.0	4.3	0.0	SP-2
1130	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1130	0.0		0.0	SP-2
1145	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1145	0.0		0.0	SP-2
1200	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1200	0.0		0.0	SP-2
1215	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1215	0.0		0.0	SP-2

~30 FT

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7-13-07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	Former Shell gas station 25535 Hawthorne Blvd, Torrance
Reference No(s). 464476	

Plan #: 466039 I.D.#: 800379

Monitor Information		Calibration Data		Monitoring Personnel		Excavation Summary (Upon completion of each page)	
Brand:	THERMO	Gas:	150	Name:	Jonathan Glover	Total Cubic Yds (This page)	48
Model:	580B ovm	Date	7/3/07	Company:	Delta	Total Cubic Yds (To date)	
Type	PID	By	Jonathan	Phone:	626-256-6667	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment SP-1 SP-3
Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
0815	0.0	4.3	0.0	SP-1
	0.0		0.0	SP-3
0830	0.0	4.3	0.0	SP-1
	0.0		0.0	SP-3
0845	0.0	4	0.0	SP-1
	0.0		0.0	SP-3
0900	0.0		0.0	SP-1
	0.0		0.0	SP-3
0915	0.0		0.0	SP-1
	0.0		0.0	SP-3
0930	0.0		0.0	SP-1
	0.0		0.0	SP-3
0945	0.0		0.0	SP-1
	0.0		0.0	SP-3
1000	0.0		0.0	SP-1
	0.0		0.0	SP-3
1015	0.0		0.0	SP-1
	0.0		0.0	SP-3
1030	0.0		0.0	SP-1
	0.0		0.0	SP-3
1045	0.0		0.0	SP-1
	0.0		0.0	SP-3
1100	0.0		0.0	SP-1
	0.0		0.0	SP-3

Time	VOC Concentration (PPMV)@ Excavated Load			Comment SP-2
Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
0815	0.0	4.3	0.0	SP-2
0830	1.3	4.3	5.59	SP-2
0845	0.0		0.0	SP-2
0900	0.0		0.0	SP-2
0915	0.0		0.0	SP-2
0930	0.0		0.0	SP-2
0945	0.0		0.0	SP-2
1000	0.0		0.0	SP-2
1015	0.0		0.0	SP-2
1030	0.0		0.0	SP-2
1045	0.0		0.0	SP-2
1100	0.0		0.0	SP-2

LAH 35

46 ft

50 ft

LAH 1

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7.13.07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	FORMER SHELL GAS STATION 25535 HAWTHORNE, TORRANCE
Reference No(s). 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information		Calibration Data		Monitoring Personnel		Excavation Summary (Upon completion of each page)	
Brand:	THERMO	Gas:	ISO	Name:	JONATHAN GLORIA	Total Cubic Yds (This page)	11 yds
Model:	580B OVM	Date	7-16-07	Company:	Delta	Total Cubic Yds (To date)	56 yds
Type	PID	By	JONATHAN	Phone:	626-256-6662	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-1 SP-3	Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-2
1115	0.0	4.3	0.0	SP1	1115	0.0	4.3	0.0	SP-2
	0.0		0.0	SP-3					
1130	0.0		0.0	SP-1	1130	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1145	0.0		0.0	SP-1	1145	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1200	0.0		0.0	SP-1	1200	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1215	0.0		0.0	SP-1	1215	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1230	0.0		0.0	SP-1	1230	0.0		0.0	SP-2
	0.0		0.0	SP-3					

-43 ft

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: Jon DATE: 7-16-07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	FORMER SHELL GAS STATION 25535 HAWTHORNE, TORRANCE
Reference No(s). 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information		Calibration Data		Monitoring Personnel		Excavation Summary (Upon completion of each page)	
Brand:	THERMO	Gas:	150	Name:	JONATHAN GLORIA	Total Cubic Yds (This page)	45 MTS
Model:	580B OVM	Date	7-16-07	Company:	Delta	Total Cubic Yds (To date)	
Type	PID	By	JONATHAN	Phone:	626,256,6662	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment	
Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-3	Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-2	
0815	0.0 / 0.0	4.3	0.0 / 0.0	SP-1 / SP-3	0815	0.0	4.3	0.0	SP-2	- LAH 6
0830	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	0830	0.0		0.0	SP-2	- 30 FT
0845	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	0845	0.0		0.0	SP2	
0900	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	0900	0.0		0.0	SP2	
0915	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	0915	0.0		0.0	SP2	
0930	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	0930	0.0		0.0	SP2	
0945	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	0945	0.0		0.0	SP2	- 35 FT
1000	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1000	0.0		0.0	SP2	
1015	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1015	0.0		0.0	SP2	
1030	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1030	0.0		0.0	SP2	- LAH 21
1045	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1045	0.0		0.0	SP-2	
1100	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1100	0.0		0.0	SP-2	

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7/16/07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	FORMER SHELL GAS STATION # 25535 HAWTHORNE, TORRANCE.
Reference No(s). 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information	Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: THERMO	Gas: 150	Name: JONATHAN GUERRA	Total Cubic Yds (This page)	7. YDS
Model: 580B OVM	Date 7-17-07	Company: Delta	Total Cubic Yds (To date)	102
Type PID	By	Phone: 626 256 6662	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-1 SP-3	Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-2
1330	0.0	4.3	0.0	SP-1	1330	1.4	4.3	6.02	SP-2
	0.0		0.0	SP-3					
1345	0.0		0.0	SP-1	1345	1.2		5.16	SP-2
	0.0		0.0	SP-3					
1400	0.0		0.0	SP-1	1400	1.2		5.16	SP-2
	0.0		0.0	SP-3					
1415	0.0		0.0	SP-1	1415	0.0		0.0	SP-2
	0.0		0.0	SP-3					

-50ft

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7-17-07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	Former SHELL GAS STATION 25535 HAWTHORNE, TORRANCE
Reference No(s). 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information		Calibration Data		Monitoring Personnel		Excavation Summary (Upon completion of each page)	
Brand:	THERMO	Gas:	150	Name:	JONATHAN GLORIA	Total Cubic Yds (This page)	48
Model:	580B OVM	Date	7-17-07	Company:	Delta	Total Cubic Yds (To date)	102
Type	PID	By	JONATHAN	Phone:	626 256-6662	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment SP-3	Time	VOC Concentration (PPMV)@ Excavated Load			Comment SP-2	
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading		
0730	0.0	4.3	0.0	SP-1	0730	0.0	4.3	0.0	SP-2	LAH 36
	0.0		0.0	SP-3 LAH36						
0745	0.0	4.3	0.0	SP-1	0745	38.0		163.4	SP-2	
	0.0		0.0	SP-3						
0800	0.0		0.0	SP-1	0800	3.2		13.76	SP-2	
	0.0		0.0	SP-3						
0815	0.0		0.0	SP-1	0815	3.2		13.76	SP-2	-45ft
	0.0		0.0	SP-3						
0830	0.0		0.0	SP-1	0830	3.0		12.9	SP-2	
	0.0		0.0	SP-3						
0845	0.0		0.0	SP-1	0845	3.2		13.76	SP-2	
	0.0		0.0	SP-3						
0900	0.0		0.0	SP-1	0900	3.9		16.77	SP-2	
	0.0		0.0	SP-3						
0915	0.0		0.0	SP-1	0915	2.6		11.18	SP-2	-55ft
	0.0		0.0	SP-3						
0930	0.0		0.0	SP-1	0930	2.4		10.32	SP-2	
	0.0		0.0	SP-3						
0945	0.0		0.0	SP-1	0945	1.8		7.74	SP-2	
	0.0		0.0	SP-3						
1000	0.0		0.0	SP-1	1000	1.7		7.31	SP-2	
	0.0		0.0	SP-3						
1015	0.0		0.0	SP-1	1015	1.2		5.16	SP-2	-65ft
	0.0		0.0	SP-3						

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7-17-07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	FORMER Shell gas sTATION 25535 HAWTHORNE, TORRANCE
Reference No(s). 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information		Calibration Data		Monitoring Personnel		Excavation Summary (Upon completion of each page)	
Brand:	THERMO	Gas:	150	Name:	JONATHAN GLORIA	Total Cubic Yds (This page)	47
Model:	580B OVM	Date	7·17·07	Company:	Delta	Total Cubic Yds (To date)	102
Type:	PID	By	JONATHAN	Phone:	626·256·6662	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment SP-1 SP-3	Time	VOC Concentration (PPMV)@ Excavated Load			Comment SP-2
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
1030	0.6	4.3	0.0	SP-1	1030	1.7	4.3	7.31	SP-2
	0.0		0.0	SP-3					
1045	0.0		0.6	SP-1	1045	1.4		6.02	SP-2
	0.0		0.0	SP-3					
1100	0.6		0.6	SP-1	1100	0.5		2.15	SP-2
	0.0		0.0	SP-3					
1115	0.0		0.0	SP-1	1115	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1130	0.0		0.0	SP-1	1130	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1145	0.0		0.0	SP-1	1145	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1200	0.0		0.0	SP-1	1200	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1215	6.0		0.6	SP-1	1215	0.0		0.0	SP-2
	0.6		0.0	SP-3					
1230	6.0		0.0	SP-1	1230	27.2		116.96	SP-2
	6.0		0.0	SP-3					
1245	0.0		0.0	SP-1	1245	24.5		105.35	SP-2
	0.0		0.0	SP-3					
1300	0.6		0.0	SP-1	1300	11.0		47.3	SP-2
	0.0		0.0	SP-3					
1315	0.6		0.0	SP-1	1315	2.0		8.6	SP-2
	0.0		0.0	SP-3					

- 74 ft
- LAH 25
- 30 ft
- 40 ft

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7·17·07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	FORMER SHELL GAS STATION 25535 HAWTHORNE. TORRANCE
Reference No(s). 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information		Calibration Data		Monitoring Personnel		Excavation Summary (Upon completion of each page)	
Brand:	THERMO	Gas:	ISO	Name:	JONATHAN GUERRA	Total Cubic Yds (This page)	46
Model:	580B OVM	Date	7-18-07	Company:	Delta	Total Cubic Yds (To date)	90
Type	PID	By	JONATHAN	Phone:	626 256 6662	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-1 SP-3	Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-2
1045	0.0 / 0.0	4.3	0.0 / 0.0	SP-1 / SP-3	1045	0.0	4.3	0.0	SP-2
1100	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1100	0.0		0.0	SP-2
1115	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1115	0.0		0.0	SP-2
1130	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1130	0.0		0.0	SP-2
1145	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1145	0.0		0.0	SP-2
1200	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1200	0.0		0.0	SP-2
1215	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1215	0.0		0.0	SP-2
1230	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1230	0.0		0.0	SP-2
1245	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1245	0.0		0.0	SP-2
1300	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1300	4.0		17.2	SP-2
1315	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1315	3.2		13.76	SP-2
1330	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1330	0.0		0.0	SP-2

LAH 2

- 40 FT

- LAH 18

- 60 ft

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7-18-07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	FORMER SHELL GAS STATION 25535 HAWTHORNE
Reference No(s). 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information		Calibration Data		Monitoring Personnel		Excavation Summary (Upon completion of each page)	
Brand:	THERMO	Gas:	150	Name:	JONATHAN GUERA	Total Cubic Yds (This page)	44
Model:	580B OVM	Date	7.18.07	Company:	Delta	Total Cubic Yds (To date)	90
Type	PID	By	JONATHAN	Phone:	626 256-6662	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment	
Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-1 SP-3	Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-2	
0745	0.0 / 0.0	4.3	0.0 / 0.0	SP-1 / SP-3	0745	0.0	4.3	0.0	SP-2	- LAH 25
0800	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	0800	0.0		0.0	SP-2	- 60FT
0815	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	0815	0.0		0.0	SP-2	
0830	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	0830	0.0		0.0	SP-2	
0845	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	0845	0.0		0.0	SP-2	
0900	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	0900	0.0		0.0	SP-2	
0915	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	0915	0.0		0.0	SP-2	- 74FT
0930	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	0930	0.0		0.0	SP-2	- LAH 2
0945	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	0945	0.0		0.0	SP-2	
1000	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1000	0.0		0.0	SP-2	
1015	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1015	0.0		0.0	SP-2	
1030	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1030	0.0		0.0	SP-2	- 35FT

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7.18.07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	
Reference No(s). 164476	25535 Hawthorne Blvd., Torrance, California

Plan #: 466039 I.D.#: 800379

Monitor Information	Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: Thermo	Gas: Isobutylene 100PPM	Name: Ja Ting Chou	Total Cubic Yds (This page)	~~53.79~~ (53.79 tons)
Model: OVM 580B	Date: 7/19/07	Company: Delta Consultants Inc.	Total Cubic Yds (To date)	
Type: PID	By: Geza Demeter	Phone: (626)256 6662	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-1 SP-3	Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-2 Borehole
10:45	0.0	4.3	0.0			0.0	4.3	0.0	
	0.0		0.0			0.0		0.0	
11:00	0.0		0.0			0.5		2.2	
	0.0		0.0			0.5		2.2	
11:15	NA		NA			NA		NA	PID charging
	NA		NA			NA		NA	V
11:30	NA		NA			NA		NA	V
	NA		NA			NA		NA	V
11:45	0.0		0.0			0.5		0.0	
	0.0		0.0			0.0		0.0	
12:00	0.0		0.0			0.0		0.0	
	0.0		0.0			0.0		0.0	
12:15	0.0		0.0			0.0		0.0	
	0.0		0.0			NA		NA	Drilling paused
12:30	0.0		0.0			0.0		0.0	
	0.0		0.0			NA		NA	Drilling paused
~~12:45~~									
~~13:00~~									
~~13:15~~									
~~13:30~~									

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7/19/07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	Former Shell Service Station
Reference No(s). 164476 1	25535 Hawthorne Blvd., Torrance, California

Plan #: 466039 I.D.#: 800379

Monitor Information	Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)
Brand: Thermo	Gas: Isobutylene 100PPM	Name: Wing Chow	Total Cubic Yds (This page): (See Pg 2)
Model: 580B OVM	Date: 7/19/07	Company: Delta Consultants Inc.	Total Cubic Yds (To date):
Type: PID 6	By: Gregg Demder	Phone: (626) 256 6662	Removed from Site (To date):

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment
Every 15 min	Reading ISO	Hexane Factor	Adjusted Reading	SP-1 SP-3	Every 15 min.	Reading ISO	Hexane Factor	Adjusted Reading	SP-2 Borehole
0739	0.0	4.3	0.0		07:40	0.0	4.3	0.0	
	0.0		0.0		07:42	0.0		0.0	
07:54	0.0		0.0		07:55	0.0		0.0	
	0.0		0.0		07:57	0.5		2.2	
08:11	0.0		0.0		08:13	0.5		2.2	
	0.0		0.0		08:15	0.5		2.2	
08:27	0.0		0.0		08:28	0.0		0.0	
	0.0		0.0		08:30	0.0		0.0	
08:45	0.0		0.0		08:45	0.0		0.0	
	0.0		0.0			0.0		0.0	
09:00	0.0		0.0		09:00	0.0		0.0	
	0.0		0.0			0.5		2.2	
09:15	0.0		0.0		09:15	NA		NA	Hauling off SP-2
	0.0		0.0			NA		NA	
09:30	0.0		0.0		09:30	0.5		2.2	
	0.0		0.0			NA		NA	
09:45	0.0		0.0		09:45	0.6		2.6	
	0.0		0.0			0.6		2.6	
10:00	0.0		0.0		10:00	0.6		2.6	
	0.0		0.0			NA		NA	
10:15	0.0		0.0		10:15	0.6		2.6	
	0.0		0.0			0.0		0.0	
10:30	0.0		0.0		10:30	0.6		2.6	
	0.0	↓	0.0			0.0	↓	0.0	

SP-1 / SP-3 — SP-2 Borehole

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7/19/07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	FORMER SHELL GAS STATION #25535, HAWTHORNE, TORRANCE
Reference No(s): 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information		Calibration Data		Monitoring Personnel		Excavation Summary (Upon completion of each page)	
Brand:	THERMO	Gas:	150	Name:	JONATHAN GLORIA	Total Cubic Yds (This page)	56 YDS
Model:	580B OVM	Date	7-20-07	Company:	Delta	Total Cubic Yds (To date)	63
Type	PID	By	JONATHAN	Phone:	626 256 6662	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment	
Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-3	Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-2	
0745	0.0	4.3	0.0	SP-3	0745	0.0	4.3	0.0	SP-2	— LAH 20
0800	0.0		0.0	SP-3	0800	0.0		0.0	SP-2	
0815	0.0		0.0	SP-3	0815	0.0		0.0	SP-2	— 35 ft
0830	0.0		0.0	SP-3	0830	0.0		0.0	SP-2	
0845	0.0		0.0	SP-3	0845	0.0		0.0	SP-2	
0900	0.0		0.0	SP-3	0900	0.0		0.0	SP-2	— 40 ft
0915	0.0		0.0	SP-3	0915	0.0		0.0	SP-2	
0930	0.0		0.0	SP-3	0930	0.0		0.0	SP-2	
0945	0.0		0.0	SP-3	0945	0.0		0.0	SP-2	
1000	0.0		0.0	SP-3	1000	0.0		0.0	SP2	— LAH 5
1015	0.0		0.0	SP-3	1015	0.0		0.0	SP2	
1030	0.0		0.0	SP-3	1030	0.0		0.0	SP2	— 35 ft

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7-20-07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	Former shell GAS STATION 25535 HAWTHORNE, Torrance
Reference No(s). 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information		Calibration Data		Monitoring Personnel		Excavation Summary (Upon completion of each page)	
Brand:	THERMO	Gas:	ISO	Name:	JONATHAN GUERRA	Total Cubic Yds (This page)	7 YDS
Model:	580B OVM	Date	7.20.07	Company:	Delta	Total Cubic Yds (To date)	63
Type	PID	By	JONATHAN	Phone:	626 256 6662	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment SP-3 SP-1	Time	VOC Concentration (PPMV)@ Excavated Load			Comment SP-2
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
1045	0.0 0.0	4.3	0.0 0.0	SP 1 SP-3	1045	0.0	4.3	0.0	SP-2
1100	0.0 0.0		0.0 0.0	SP-1 SP-3	1100	0.0		0.0	SP-2
1115	0.0 0.0		0.0 0.0	SP1 SP-3	1115	0.0		0.0	SP-2
1130	0.0 0.0		0.0 0.0	SP-1 SP-3	1130	0.0		0.0	SP-2

LAHS

45 ft

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7.20.07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	FORMER SHELL GAS STATION 25535 HAWTHORNE, TORRANCE
Reference No(s). 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information		Calibration Data		Monitoring Personnel		Excavation Summary (Upon completion of each page)	
Brand:	THERMO	Gas:	150	Name:	JONATHAN GLORIA	Total Cubic Yds (This page)	7
Model:	580B OVM	Date	7-23-07	Company:	DELTA	Total Cubic Yds (To date)	20
Type	PID	By	JONATHAN	Phone:	626-256-6662	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment SP-1 SP-3	Time	VOC Concentration (PPMV)@ Excavated Load			Comment SP-2
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
1345	0.0 / 0.0	4.3	0.0 / 0.0	SP-1 / SP-3	1345	0.0	4.3	0.0	SP-2 — 40 ft
1400	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1400	0.0		0.0	SP-2
1415	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1415	0.0		0.0	SP-2
1430	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1430	0.0		0.0	SP-2
1445	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1445	0.0		0.0	SP-2 — 45 ft
1500	0.0 / 0.0		0.0 / 0.0	SP-1 / SP-3	1500	0.0		0.0	SP-2

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7-23-07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	FORMER SHELL GAS STATION 25535 HAWTHORNE, TORRANCE
Reference No(s). 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information		Calibration Data		Monitoring Personnel		Excavation Summary (Upon completion of each page)	
Brand:	THERMO	Gas:	150	Name:	JONATHAN GUERRA	Total Cubic Yds (This page)	384YDS
Model:	580B OVM	Date	7.23.07	Company:	DELTA	Total Cubic Yds (To date)	20
Type	PID	By	JONATHAN	Phone:	626-256-6662	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment SP-1 SP-3	Time	VOC Concentration (PPMV)@ Excavated Load			Comment SP-2
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
0745	0.0	4.3	0.0	SP-1	0745	NA	4.3	NA	SP-2
	0.0		0.0	SP-3					
0800	0.0		0.0	SP-1	0800	54.0		232.2	SP-2
	0.0		0.0	SP-3					
0815	0.0		0.0	SP 1	0815	10.0		43.0	SP-2
	0.0		0.0	SP 3					
0830	0.0		0.0	SP 1	0830	7.7		33.11	SP-2
	0.0		0.0	SP 3					
0845	0.0		0.0	SP 1	0845	3.2		13.76	SP-2
	0.0		0.0	SP 3					
0900	0.0		0.0	SP 1	0900	0.0		0.0	SP-2
	0.0		0.0	SP 3					
0915	0.0		0.0	SP-1	0915	0.0		0.0	SP-2
	0.0		0.0	SP-3					
0930	0.0		0.0	SP-1	0930	0.0		0.0	SP-2
	0.0		0.0	SP-3					
0945	0.0		0.0	SP-1	0945	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1000	0.0		0.0	SP-1	1000	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1015	0.0		0.0	SP-1	1015	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1030	0.0		0.0	SP-1	1020	0.8		0.0	SP-2
	0.0		0.0	SP-3					

LAHUG

- 30ft

- 40ft

- 50ft

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7.23.07

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Wayne Perry, Inc. 8281 Commonwealth Ave Buena Park, CA 90621	Former Shell gas station 25535 HAWTHORNE, TORRANCE
Reference No(s). 164476	

Plan #: 466039 I.D.#: 800379

Monitor Information		Calibration Data		Monitoring Personnel		Excavation Summary (Upon completion of each page)	
Brand:	THERMO	Gas:	150	Name:	JONATHAN GUERA	Total Cubic Yds (This page)	25 YDS
Model:	580B OVM	Date	7-23-07	Company:	Delta	Total Cubic Yds (To date)	70
Type:	PID	By	JONATHAN	Phone:	626-256-6662	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-1 SP-3 SP-3	Every 15 min.	Reading	Hexane Factor	Adjusted Reading	SP-2
1045	0.0	4.3	0.0	SP-1	1045	0.0	4.3	0.0	SP-2
	0.0		0.0	SP-3					
1100	0.0		0.0	SP-1	1100	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1115	0.0		0.0	SP-1	1115	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1130	0.0		0.0	SP-1	1130	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1145	0.0		0.0	SP-1	1145	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1200	0.0		0.0	SP-1	1200	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1215	0.0		0.0	SP-1	1215	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1230	0.0		0.0	SP-1	1230	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1245	0.0		0.0	SP-1	1245	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1300	0.0		0.0	SP-1	1300	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1315	0.0		0.0	SP-1	1315	0.0		0.0	SP-2
	0.0		0.0	SP-3					
1330	0.0		0.0	SP-1	1330	0.0		0.0	SP-2
	0.0		0.0	SP-3					

- LAH 17

- 35

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 7-23-07

AMERICAN REMEDIAL TECHNOLOGIES

P.O. BOX 970
2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 062

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
Generator's Phone No. 713-241 5036

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name
TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number
CAL000131034

10. Facility's Phone No.
(323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No. 4297

ART Job No. 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
Salvador Lara	Salvador Lara	8	8	7

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Jason Gilbert		8	8	7

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
Jose Vargas		8	8	7

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 068900

Date: 8/08/0
Time in: 9:26
Time out: 9:27
Scale: Scl#1

Carrier: 2874 TRUCK WORKS ,LLC

Customer: 2833 Shell Oil Products US

Truck: TR1 Trailer: TR1T

Product: 01 SOIL-LTTD TREAT Job: 20063297 Manifest: 066

WGT IN: Gross: 70,200 LBS Scl#1

Tare: 35,140 LBS Stored

Net: 35,060 LBS = 17.53 Tons

Driver signature

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

P.O. BOX 970
2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 066

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
713-241 5036
Generator's Phone No.

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name
TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number
CAL000131034

10. Facility's Phone No.
(323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No. 4297

ART Job No. 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
JONATHAN GLORIA		8	8	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
MILTON PONCE		8	8	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
		8	8	7

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 068898

Date: 8/08/0
Time in: 7:43
Time out: 7:44
Scale: Scl#1

Carrier: 2874 TRUCK WORKS ,LLC

Customer: 2833 Shell Oil Products US

Truck: T3 Trailer: T3T

Product: 01 SOIL-LTTD TREAT Job: 20063297 Manifest: 061

WGT IN: Gross: 66,200 LBS Scl#1

Tare: 33,380 LBS Stored

Net: 32,820 LBS = 16.41 Tons

Driver signature

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

P.O. BOX 970
2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 061

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
713-241 5036
Generator's Phone No.

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name
TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number
CAL000131034

10. Facility's Phone No.
(323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No. 4297

ART Job No. 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
Daniel Sandoz		08	8	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Jason Gilbert		08	8	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
		08	8	07

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 060897

Date: 8/08/2
Time in: 7:31
Time out: 7:32
Scale: Scl#1

Carrier: 2874 TRUCK WORKS ,LLC

Customer: 2833 Shell Oil Products US

Truck: TR1 Trailer: TR1T

Product: 01 SOIL-LTTD TREAT Job: 20063297 Manifest: 060

WGT IN: Gross: 70,900 LBS Scl#1

Tare: 35,140 LBS Stored

Net: 35,760 LBS = 17.88 Tons

Driver signature

Milton Ponce

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

P.O. BOX 970
2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 060

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
Generator's Phone No. 713-241 5036

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name
TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number
CAL000131034

10. Facility's Phone No.
(323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No. 4297

ART Job No. 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
Salvador Lom	Salvador Lom	8	8	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Milton Ponce	MR	8	8	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
		8	8	7

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

Customer Job Report

Report Print Date: 8/13/2007 3:29

Selected Start Date for Report:

Selected Ending Date for Report:

Organization Name	Date	Job Number	Ticket Number	Manifest Number	Net-Tons
Shell Oil Products US - Environmental	Generator Name and Site Address: Shell Oil Company 25535 Hawthorne Blvd. Torrance				
	8/10/2007	20063297	068925	070	17.03
			068928	064	19.40
			068929	071	19.29
			068930	072	16.58
Total For Job: 20063297	**On Date: 8/10/2007**			**Number of Loads: 4**	**72.30**
Total For Job: 20063297				**Number of Loads: 4**	**72.30**
Total For Shell Oil Products US - Environmenta				**Number of Loads: 4**	**72.30**
				Grand Total:	**72.30**

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 068930

Date: 8/10/0
Time in: 13:53
Time out: 13:53
Scale: Scl#1

Carrier: 2874 TRUCK WORKS ,LLC

Customer: 2833 Shell Oil Products US

Truck: TRi Trailer: TRiT

Product: 01 SOIL-LTTD TREAT Job: 20063297 Manifest: 072

WGT IN: Gross: 68,300 LBS Scl#1

Tare: 35,140 LBS Stored

Net: 33,160 LBS = 16.58 Tons

Driver signature

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

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2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 072

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
713-241 5036
Generator's Phone No.

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number
CAL000131034

10. Facility's Phone No.
(323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No. 4297

ART Job No. 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
JONATHAN GLORIA		8	10	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Milton Powell		8	10	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
Jerry Vargas		8	10	7

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 058929

Date: 8/10/07
Time in: 11:34
Time out: 11:35
Scale: Scl#1

Carrier: 2074 TRUCK WORKS ,LLC

Customer: 2833 Shell Oil Products US

Truck: TR1 Trailer: TRIT

Product: 01 SOIL-LTTD TREAT Job: 20063297 Manifest: 071

WGT IN: Gross: 73,720 LBS Scl#1

Tare: 35,140 LBS Stored

Net: 38,580 LBS = 19.29 Tons

Driver signature Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

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2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 071

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
Generator's Phone No. 713-241 5036

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name
TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number
CAL000131034

10. Facility's Phone No.
(323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No. 4297

ART Job No. 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
JONATHAN GLORIA		8	10	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
MIKE PONCE		8	10	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
		8	10	7

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 068928

Date: 9/10/0
Time in: 9:21
Time out: 9:21
Scale: Scl#1

Carrier: 2874 TRUCK WORKS ,LLC

Customer: 2833 Shell Oil Products US

Truck: TR1 Trailer: TR1T

Product: ,01 SOIL-LTTD TREAT Job: 200G3297 Manifest: 064

WGT IN: Gross: 73,940 LBS Scl#1

Tare: 35,140 LBS Stored

Net: 38,800 LBS = 19.40 Tons

Driver signature

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

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2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 064

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
713-241 5036
Generator's Phone No.

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name
TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number
CAL000131034

10. Facility's Phone No.
(323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No. 4297

ART Job No. 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
JONATHAN GUERRA		8	10	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
MILTON POWER	M.R.	8	10	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
		8	10	7

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 060925

Date: 8/10/0
Time in: 7:30
Time out: 7:30
Scale: Scl#1

Carrier: 2874 TRUCK WORKS ,LLC

Customer: 2833 Shell Oil Products US

Truck: TR1 Trailer: TR1T

Product: 01 SOIL-LTTD TREAT Job: 20063297 Manifest: 070

WGT IN: Gross: 69,200 LBS Scl#1

Tare: 35,140 LBS Stored

Net: 34,060 LBS = 17.03 Tons

Driver signature

Milton Ponce

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

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2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 070

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
713-241 5036
Generator's Phone No.

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name
TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number
CAL000131034

10. Facility's Phone No.
(323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No. 4297

ART Job No. 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
Salvador Luna	Salvador Luna	8	10	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Miguel Ponce	M. Ponce	8	10	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
Jerry Vaughn		8	10	7

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

Customer Job Report

Report Print Date: 8/13/2007 4:22

Selected Start Date for Report:

Selected Ending Date for Report:

Organization Name	Date	Job Number	Ticket Number	Manifest Number	Net-Tons
Shell Oil Products US - Environmental	**Generator Name and Site Address: Shell Oil Company 25535 Hawthorne Blvd. Torrance**				
	8/13/2007	20063297	068931	073	**16.81**
			068933	074	**17.45**
			068936	075	**19.03**
			068939	076	**19.89**
			068941	077	**18.94**
Total For Job: 20063297	**On Date: 8/13/2007**			**Number of Loads: 5**	**92.12**
Total For Job: 20063297				**Number of Loads: 5**	**92.12**
Total For Shell Oil Products US - Environmenta				**Number of Loads: 5**	**92.12**
				Grand Total:	**92.12**

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 068941

Date: 8/13/0
Time in: 14:16
Time out: 14:17
Scale: Scl#1

Carrier: 2874 TRUCK WORKS ,LLC

Customer: 2833 Shell Oil Products US

Truck: TR1 Trailer: TR1T

Product: 01 SOIL-LTTD TREAT Job: 20063297 Manifest: 077

WGT IN: Gross: 73,020 LBS Scl#1

Tare: 35,140 LBS Stored

Net: 37,880 LBS = 18.94 Tons

Driver signature

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

P.O. BOX 970
2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 077

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
Generator's Phone No. 713-241 5036

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name
TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number
CAL000131034

10. Facility's Phone No.
(323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No. 4297

ART Job No. 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
JONATHAN GLORIA		8	13	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
MILTON PONCE		8	13	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
		8	13	7

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 068939

Date: 8/13/
Time in: 12:31
Time out: 12:33
Scale: Scl#1

Carrier: 2874 TRUCK WORKS ,LLC

Customer: 2833 Shell Oil Products US

Truck: TR1 Trailer: TRiT

Product: 01 SOIL-LTTD TREAT Job: 20063297 Manifest: 076

WGT IN: Gross: 74,920 LBS Scl#1

Tare: 35,140 LBS Stored

Net: 39,780 LBS = 19.89 Tons

Driver signature

Milton Parks

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

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2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 076

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
713-241 5036
Generator's Phone No.

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name
TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number
CAL000131034

10. Facility's Phone No.
(323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No. 4297

ART Job No. 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
JONATHAN GLORIA		8	13	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
MIKE PONCE		8	13	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
		8	13	7

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 068936

Date: 8/13/0
Time in: 10:54
Time out: 10:55
Scale: Scl#1

Carrier: 2874 TRUCK WORKS ,LLC

Customer: 2833 Shell Oil Products US

Truck: TR1 Trailer: TR1T

Product: 01 SOIL-LTTD TREAT Job: 20063297 Manifest: 075

WGT IN: Gross: 73,200 LBS Scl#1

Tare: 35,140 LBS Stored

Net: 38,060 LBS = 19.03 Tons

Driver signature

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 075

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
Generator's Phone No. 713-241 5036

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name
TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number
CAL000131034

10. Facility's Phone No.
(323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) **NO (x)**
Weight Ticket _____

ART Approval No. 4297

ART Job No. 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
JONATHAN GLORIA		8	13	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Milton Ponce		8	13	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
		8	13	7

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 068933

Date: 8/13/0
Time in: 9:16
Time out: 9:17
Scale: Scl#1

Carrier: 2874 TRUCK WORKS .LLC

Customer: 2833 Shell Oil Product: US

Truck: TR1 Trailer: TR1T

Product: 01 SOIL-LTTD TREAT Job: 20063297 Manifest: 074

WGT IN: Gross: 70,040 LBS Scl#1

Tare: 35,140 LBS Stored

Net: 34,900 LBS = 17.45 Tons

Driver signature

Milton Ponce

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

P.O. BOX 970
2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 074

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
713-241 5036
Generator's Phone No.

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number
CAL000131034

10. Facility's Phone No.
(323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No. 4297

ART Job No. 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
JONATHAN GLORIA		8	13	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Milton Ponce		8	13	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15

Printed / Typed Name	Signature	Month	Day	Year
		8	13	7

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 068931

Date: 8/13/0
Time in: 7:33
Time out: 7:34
Scale: Scl#1

Carrier: 2874 TRUCK WORKS ,LLC

Customer: 2833 Shell Oil Products US

Truck: TR1 Trailer: TR1T

Product: 01 SOIL-LTTD TREAT Job: 20063297 Manifest: 073

WGT IN: Gross: 68,760 LBS Scl#1

Tare: 35,140 LBS Stored

Net: 33,620 LBS = 16.81 Tons

Driver signature

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

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2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 073

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
713-241 5036
Generator's Phone No.

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name
TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number
CAL000131034

10. Facility's Phone No.
(323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No. 4297

ART Job No. 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
E. Delgadillo		8	13	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Milton Ponce	M. Ponce	8	13	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
Jerry Vargas		8	13	7

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

Customer Job Report

Report Print Date: 8/14/2007 3:49

Selected Start Date for Report:

Selected Ending Date for Report:

Organization Name	Date	Job Number	Ticket Number	Manifest Number	Net-Tons
Shell Oil Products US - Environmental	Generator Name and Site Address: Shell Oil Company 25535 Hawthorne Blvd. Torrance				
	8/14/2007	20063297	068944	078	20.22
			068945	079	18.55
			068946	080	20.80
			068948	081	20.58
Total For Job: 20063297	On Date: 8/14/2007			Number of Loads: 4	80.15
Total For Job: 20063297				Number of Loads: 4	80.15
Total For Shell Oil Products US - Environmenta				Number of Loads: 4	80.15
				Grand Total:	80.15

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 068940

Date: 9/14/0
Time in: 12:42
Time out: 12:42
Scale: Scl#1

Carrier: 2874 TRUCK WORKS ,LLC

Customer: 2833 Shell Oil Products US

Truck: TR1 Trailer: TR1T

Product: 01 SOIL-LTTD TREAT Job: 20063297 Manifest: 081

WGT IN: Gross: 76,300 LBS Scl#1

Tare: 35,140 LBS Stored

Net: 41,160 LBS = 20.58 Tons

Driver signature

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

P.O. BOX 970
2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 081

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
Generator's Phone No. 713-241 5036

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name
TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number
CAL000131034

10. Facility's Phone No.
(323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No. 4297

ART Job No. 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
Chad Jenkins		8	14	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Milton Ponce		8	14	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
		8	14	7

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 068916

Date: 8/11/0
Time in: 11:01
Time out: 11:02
Scale: Scl#1

Carrier: 2874 TRUCK WORKS ,LLC

Customer: 2833 Shell Oil Product: US

Truck: TR1 Trailer: TR1T

Product: 01 SOIL-LTTD TREAT Job: 20063297 Manifest: 000

WGT IN: Gross: 76,740 LBS Scl#1

Tare: 35,140 LBS Stored

Net: 41,600 LBS = 20.80 Tons

Driver signature

Milton Ponce

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

P.O. BOX 970
2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 080

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
Generator's Phone No. 713-241 5036

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name: TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number: CAL000131034

10. Facility's Phone No.: (323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No.: 4297

ART Job No.: 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
JONATHAN GLORIA		8	14	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
MILTON PONCE		8	14	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
		8	14	7

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 068945

Date: 8/14/0
Time in: 9:21
Time out: 9:21
Scale: Scl#1

Carrier: 2874 TRUCK WORKS ,LLC

Customer: 2033 Shell Oil Product UC

Truck: TR1 Trailer: TR1T

Product: 01 SOIL-LTTD TREAT Job: 20063297 Manifest: 079

WGT IN: Gross: 72,240 LBS Scl#1

Tare: 35,140 LBS Stored

Net: 37,100 LBS = 18.55 Tons

Driver signature

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

P.O. BOX 970
2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 079

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
Generator's Phone No. 713-241 5036

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name: TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number: CAL000131034

10. Facility's Phone No.: (323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No.: 4297

ART Job No.: 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
JONATHAN GLORIA		8	14	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
MILTON PONCE		8	14	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
		8	14	7

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

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Ticket No.: 0683[illegible]

Date: 8/14/0
Time in: 7:36
Time out: 7:37
Scale: Scl#1

Carrier: 2874 TRUCK WORKS ,LLC

Customer: 2833 Shell Oil Product: US

Truck: TR1 Trailer: TR17

Product: 01 SOIL-LTTD TREAT Job: 20063297 Manifest: 078

WGT IN: Gross: 75,580 LBS Scl#1

Tare: 35,140 LBS Stored

Net: 40,440 LBS = 20.22 Tons

Driver signature

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

P.O. BOX 970
2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 078

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
713-241 5036
Generator's Phone No.

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number
CAL000131034

10. Facility's Phone No.
(323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No. 4297

ART Job No. 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Milton Ponce		8	14	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
		8	14	7

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

Customer Job Report

Report Print Date: 8/21/2007 11:1

Selected Start Date for Report:

Selected Ending Date for Report:

Organization Name	Date	Job Number	Ticket Number	Manifest Number	Net-Tons
Shell Oil Products US - Environmental	**Generator Name and Site Address: Shell Oil Company 25535 Hawthorne Blvd. Torrance**				
	8/17/2007	20063297	068976	082	**20.71**
			068978	083	**17.39**
			068981	084	**24.77**
			068984	087	**17.25**
			068987	086	**20.21**
			068991	0853	**16.95**
			068995	088	**22.76**
Total For Job: 20063297		**On Date: 8/17/2007**		**Number of Loads: 7**	**140.04**
Total For Job: 20063297				**Number of Loads: 7**	**140.04**
Total For Shell Oil Products US - Environmenta				**Number of Loads: 7**	**140.04**
				Grand Total:	**140.04**

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 0068995

Date: 8/17/0
Time in: 14:43
Time out: 14:47
Scale: Scl#1

Carrier: 2074 TRUCK WORKS ,LLC

Customer: 2033 Shell Oil Product: US

Truck: TRI Trailer: TRIT

Product: 01 SOIL LTTD TREAT Job: 20003297 Manifest: 000

UST IN: Gross: 80,660 LBS Scl#1

Tare: 35,140 LBS Stored

Net: 45,520 LBS 22.76 Tons

Driver signature: Milton Ponce

Weighmaster signature:

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

P.O. BOX 970
2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 088

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
Generator's Phone No. 713-241 5036

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name
TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number
CAL000131034

10. Facility's Phone No.
(323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No. 4297

ART Job No. 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
JONATHAN GLORIA		8	17	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
MIGUEL PONCE		8	17	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
		8	17	7

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 068991

Date: 8/17/Y
Time in: 13:44
Time out: 13:45
Scale: Scl#1

Carrier: 2874 TRUCK WORKS ,LLC

Customer: 2033 Shell Oil Products US

Truck: T3 Trailer: T3T

Product: 01 SOIL-LTTO TREAT Job: 2006B297 Manifest: 0853

WGT IN: Gross: 67,280 LBS Scl#1

Tare: 33,380 LBS Stored

Net: 33,900 LBS = 16.95 Tons

Driver signature

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

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2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. **085**

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
Generator's Phone No. **713-241 5036**

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name: **TRUCKWORK**

6. US EPA ID Number:

7. Transporter's Phone No.:

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number: CAL000131034

10. Facility's Phone No.: (323) 357-1900

11. Waste Shipping Name and Description

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?

YES ( ) **NO (x)**

Weight Ticket _____

ART Approval No.: **4297**

ART Job No.: **2006 3297**

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
JONATHAN GLORIA		8	17	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Jason Gilbert		8	17	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
		8	17	07

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 068997

Date: 8/17/0
Time in: 12:49
Time out: 12:50
Scale: Scl#1

Carrier: 2874 TRUCK WORKS ,LLC

Customer: 2833 Shell Oil Products US

Truck: TRI Trailer: TRIT

Product: 01 SOIL-LTTD TRENT Job: 20063297 Manifest: 086

WGT IN: Gross: 75,560 LBS Scl#1

Tare: 35,140 LBS Stored

Net: 40,420 LBS = 20.21 Tons

Driver signature

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

P.O. BOX 970
2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 086

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
Generator's Phone No. 713-241 5036

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name
TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number
CAL000131034

10. Facility's Phone No.
(323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No. 4297

ART Job No. 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
JONATHAN GLORIA		8	17	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
MIKE PONCE		8	17	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
		8	17	7

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 068984

Date: 8/17/0
Time in: 11:34
Time out: 11:34
Scale: Scl#1

Carrier: 2874 TRUCK WORKS ,LLC

Customer: 2833 Shell Oil Products UC

Truck: T3 Trailer: T3T

Product: 01 SOIL-LTTD TREAT Job: 20063297 Manifest: 087

WGT IN: Gross: 67,880 LBS Scl#1

Tare: 33,380 LBS Stored

Net: 34,500 LBS = 17.25 Tons

Driver signature

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

P.O. BOX 970
2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 087

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
Generator's Phone No. 713-241 5036

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name: TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number: CAL000131034

10. Facility's Phone No.: (323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No.: 4297

ART Job No.: 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
[illegible]		8	17	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Jason Gilbert	[signature]	8	17	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
[signature]	[signature]	8	17	07

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on his certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 068981

Date: 8/17/0
Time in: 11:00
Time out: 11:05
Scale: Scl#1

Carrier: 2874 TRUCK WORKS ,LLC

Customer: 2833 Shell Oil Product: UC

Truck: TRI Trailer: TRIT

Product: 01 SOIL-LTTD TREAT Job: 20063297 Manifest: 084

WGT IN: Gross: 84,680 LBS Scl#1

Tare: 35,140 LBS Stored

Net: 49,540 LBS = 24.77 Tons

Driver signature

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

P.O. BOX 970
2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 084

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
Generator's Phone No. 713-241 5036

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name: TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number: CAL000131034

10. Facility's Phone No.: (323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No.: 4297

ART Job No.: 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
JONATHAN GLORIA		8	17	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Milton Ponce		8	17	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
		8	17	07

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 060370

Date: 8/17/0
Time in: 9:3C
Time out: 9:3C
Scale: Scl#1

Carrier: 2874 TRUCK WORKS, LLC

Customer: 2833 Shell Oil Product: UC

Truck: T3 Trailer: T3T

Product: 01 SOIL LTTD TRENT Job: 20063297 Manifest: 003

WGT IN: Gross: 68,160 LBS Scl#1

Tare: 33,300 LBS Stored

Net: 34,780 LBS = 17.39 Tons

Driver signature

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

P.O. BOX 970
2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 083

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
Generator's Phone No. 713-241 5036

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name
TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number
CAL000131034

10. Facility's Phone No.
(323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No. 4297

ART Job No. 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
JONATHAN GLORIA		8	17	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Jason Gilbert		8	17	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
		8	17	07

ORIGINAL-RETURN TO GENERATOR

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 060970

Date: 0.17
Time in: 9:13
Time out: 9:14
Scale: Scl#1

Carrier: 2874 TRUCK WORKS ,LLC

Customer: 2833 Shell Oil Products US

Truck: TR1 Trailer: TR1T

Product: 01 SOIL-LTTD TREAT Job: 20063297 Manifest: 082

WGT IN: Gross: 76,560 LBS Scl#1

Tare: 35,140 LBS Stored

Net: 41,420 LBS = 20.71 Tons

Driver signature

Milton Powell

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 E. IMPERIAL HWY, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

AMERICAN REMEDIAL TECHNOLOGIES

P.O. BOX 970
2680 E. Imperial Hwy. • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 082

3. Generator's Name and Mailing Address
SHELL OIL PRODUCTS US-ENVIRONMENTAL SERVICES
PO BOX 4912
HOUSTON, TX 77210 4702
Generator's Phone No. 713-241 5036

4. Site Address
SHELL OIL CO.
25535 HAWTHORNE BLVD
TORRANCE, CA 90505
949-360 1111

5. Transporter 1 Company Name: TRUCKWORK

6. US EPA ID Number

7. Transporter's Phone No.

8. Designated Facility Name and Site Address
American Remedial Technologies Inc.
2680 E. Imperial Hwy.
Lynwood, California 90262

9. US EPA ID Number: CAL000131034

10. Facility's Phone No.: (323) 357-1900

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**				

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
YES ( ) NO (x)
Weight Ticket _____

ART Approval No.: 4297

ART Job No.: 2006 3297

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
JONATHAN GLORIA		8	17	07

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
MILTON PONCE		8	17	07

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year
		8	17	7

ORIGINAL-RETURN TO GENERATOR

APPENDIX H

CERTIFIED LABORATORY ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Centrum
Analytical
Laboratories, Inc.
CERTIFIED HAZARDOUS WASTE TESTING MOBILE & IN HOUSE LABORATORIES

LAH - 31

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 1)

Laboratory Name:	Centrum Analytical Laboratories, Inc.
Address:	1401 Research Park Drive, Suite 100, Riverside, CA 92507
Telephone/Fax:	(951) 779-0310/(951) 779-0344
ELAP Certification No./ Expiration Date:	2373 / June 31, 2007
Authorized Signature Name, Title: (print)	Mark B. Horan, Laboratory Director
Signature, Date:	Mark Horan 2007.07.31 10:40:38 -07'00'
Laboratory Job Number:	M4-1013
Client Name:	Delta Environmental
Project Name/No:	25535 Hawthorne Blvd. Torrance, CA / PA255351X
Date(s) Sampled: (from - to)	07/09/07 - 07/09/07
Date(s) Received: (from - to)	07/09/07 - 07/09/07
Date(s) Reported: (from - to)	07/09/07 - 07/31/07
Chain of Custody received:	Yes X No
Comments:	

(RWQCB Lab Form: Ver 6/00)

951•779•0310 or 800•798•9336 fax 951•779•0344
www.centrum-labs.com 1401 Research Park Drive, Suite 100, Riverside, CA 92507

Centrum Analytical Laboratories, Inc.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

Laboratory Job Number: M4-1013

Organic Analyses	# of Samples	# of Samples Subcontracted
EPA 8260B	8	0
LUFT TPH Gasoline	8	0

Sample Condition: Intact

Inorganic Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Microbiological Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Other Types of Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

(RWQCB Lab Form: Ver 6/00)

Centrum Analytical Laboratories, Inc.

Project No: 25535 Hawthorne Blvd. Torrance, CA / PA255351X **Lab Job No:** M4-1013

ANALYTICAL RESULT FOR ORGANICS

Method: EPA 8260B **Reporting Unit:** mg/Kg

LAB SAMPLE I.D.			Method Blank	M4-1013-1	M4-1013-2	M4-1013-3	M4-1013-4
CLIENT SAMPLE I.D.			NA	LAH-31d30	LAH-31d40	LAH-31d50	LAH-31d60
DATE SAMPLED			07/09/07	07/09/07	07/09/07	07/09/07	07/09/07
DATE EXTRACTED			NA	NA	NA	NA	NA
DATE ANALYZED			07/09/07	07/09/07	07/09/07	07/09/07	07/09/07
EXTRACTION SOLVENT			NA	NA	NA	NA	NA
EXTRACTION METHOD			EPA 5035	EPA 5035	EPA 5035	EPA 5035	EPA 5035
DILUTION FACTOR			1	1	1	1	1
COMPOUND		CRDL					
Gasoline (C4-C12)		0.20	*<0.20*	**190**	**20**	**5.3**	**11**
SURROGATE	SPK CONC	ACP%	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	70-130	101	99	100	99	100
Toluene-d8	50	70-130	100	101	100	100	102
Bromofluorobenzene	50	70-130	100	102	101	105	102

LAB SAMPLE I.D.			M4-1013-5	M4-1013-6			
CLIENT SAMPLE I.D.			LAH-31d75	LAH-31d77			
DATE SAMPLED			07/09/07	07/09/07			
DATE EXTRACTED			NA	NA			
DATE ANALYZED			07/09/07	07/09/07			
EXTRACTION SOLVENT			NA	NA			
EXTRACTION METHOD			EPA 5035	EPA 5035			
DILUTION FACTOR			1	1			
COMPOUND		CRDL					
Gasoline (C4-C12)		0.20	**3.6**	**5.4**			
SURROGATE	SPK CONC	ACP%	%RC	%RC			
Dibromofluoromethane	50	70-130	98	98			
Toluene-d8	50	70-130	102	100			
Bromofluorobenzene	50	70-130	99	97			

Centrum Analytical Laboratories, Inc.

Project No: 25535 Hawthorne Blvd. Torrance, CA / PA255351X **Lab Job No:** M4-1013

ANALYTICAL RESULT FOR ORGANICS

Method: EPA 8260B **Reporting Unit:** mg/Kg

LAB SAMPLE I.D.			M4-1013-9	M4-1013-10			
CLIENT SAMPLE I.D.			Composite: SP-1	Composite: SP-2			
DATE SAMPLED			07/09/07	07/09/07			
DATE EXTRACTED			NA	NA			
DATE ANALYZED			07/09/07	07/09/07			
EXTRACTION SOLVENT			NA	NA			
EXTRACTION METHOD			mod. EPA 5035	mod. EPA 5035			
DILUTION FACTOR			1	50			
COMPOUND		CRDL					
Gasoline (C4-C12)		0.20	0.84	37			
SURROGATE	SPK CONC	ACP%	%RC	%RC			
Dibromofluoromethane	50	70-130	99	100			
Toluene-d8	50	70-130	102	100			
Bromofluorobenzene	50	70-130	100	100			

Centrum Analytical Laboratories, Inc.

Project No: 25535 Hawthorne Blvd. Torrance, CA / PA255351X **Lab Job No:** M4-1013

QA/QC REPORT (Continued)

II. Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate(LCSD)

DATE PERFORMED: 07/09/07 ANALYTICAL METHOD: LUFT TPHg

BATCH #: M4TPHGS1613

LAB SAMPLE I.D.: Laboratory Control Sample REPORTING UNITS: mg/Kg

ANALYTE	SAMPLE RESULT	SPK CONC	LCS	%LCS	SPIKE CONC (DUP)	LCSD	%LCSD	RPD	LCS/LCSD LIMIT	RPD Limit
Gasoline	0.0	2.0	2.19	110%	2.0	2.16	108%	1.4%	70-130	25

III. Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 07/09/07 ANALYTICAL METHOD: LUFT TPHg

STANDARD SUPPLY SOURCE: Centrum Analytical Laboratories DATE OF SOURCE: 05/31/07

INSTRUMENT I.D.: M4GCMS LOT NUMBER: VD-05-02d

LAB LCS I.D.: Laboratory Control Sample REPORTING UNITS: mg/Kg

ANALYTE	SPIKE CONC	RESULT	% RECOVERY	ACP % REC LIMIT
Gasoline	2.0	2.19	110%	70-130

Centrum Analytical Laboratories, Inc.

Project No: 25535 Hawthorne Blvd. Torrance, CA / PA255351X **Lab Job No:** M4-1013

ANALYTICAL RESULT FOR ORGANICS

Method: EPA 8260B **Reporting Unit:** mg/Kg

LAB SAMPLE I.D.		Method Blank	M4-1013-1	M4-1013-2	M4-1013-3	M4-1013-4
CLIENT SAMPLE I.D.		NA	LAH-31d30	LAH-31d40	LAH-31d50	LAH-31d60
DATE SAMPLED		07/09/07	07/09/07	07/09/07	07/09/07	07/09/07
DATE EXTRACTED		NA	NA	NA	NA	NA
DATE ANALYZED		07/09/07	07/09/07	07/09/07	07/09/07	07/09/07
EXTRACTION SOLVENT		NA	NA	NA	NA	NA
EXTRACTION METHOD		EPA 5035	EPA 5035	EPA 5035	EPA 5035	EPA 5035
DILUTION FACTOR		1	1	1	1	1
COMPOUND	CRDL					
Acetone	0.050	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*
tert-Amyl Methyl Ether (TAME)	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
Benzene	0.0010	*<0.0010*	**0.0050**	**0.0013**	**0.0011**	**0.0020**
Bromobenzene	0.0050	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*
Bromochloromethane	0.0050	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*
Bromodichloromethane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
Bromoform	0.0050	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*
Bromomethane	0.0050	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*
tert-Butanol (TBA)	0.020	*<0.020*	*<0.020*	*<0.020*	**0.022**	*<0.020*
2-Butanone (MEK)	0.010	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*
n-Butylbenzene	0.0020	*<0.0020*	**1.3**	**0.11**	**0.033**	**0.079**
sec-Butylbenzene	0.0020	*<0.0020*	**0.17**	**0.037**	**0.011**	**0.024**
tert-Butylbenzene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
Carbon disulfide	0.010	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*
Carbon tetrachloride	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
Chlorobenzene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	**0.0022**	*<0.0010*
Chloroethane	0.0050	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*
Chloroform	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
Chloromethane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
2-Chlorotoluene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
4-Chlorotoluene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
Dibromochloromethane	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
1,2-Dibromoethane	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
1,2-Dibromo-3-chloropropane	0.010	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*
Dibromomethane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
1,2-Dichlorobenzene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
1,3-Dichlorobenzene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
1,4-Dichlorobenzene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
Dichlorodifluoromethane	0.0050	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*
1,1-Dichloroethane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	**0.0017**	*<0.0010*
1,2-Dichloroethane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	**0.0065**	**0.0013**
1,1-Dichloroethene	0.0050	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*
cis-1,2-Dichloroethene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	**0.0087**	*<0.0020*
trans-1,2-Dichloroethene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
1,2-Dichloropropane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
1,3-Dichloropropane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
2,2-Dichloropropane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
1,1-Dichloropropene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
cis-1,3-Dichloropropene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
trans-1,3-Dichloropropene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
Diisopropyl Ether (DIPE)	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*

Centrum Analytical Laboratories, Inc.

ANALYTICAL RESULT FOR ORGANICS (Continued)

COMPOUND	CRDL	Method Blank	LAH-31d30	LAH-31d40	LAH-31d50	LAH-31d60
Ethylbenzene	0.0010	*<0.0010*	**1.6**	**0.16**	**0.079**	**0.13**
Ethyl tert-Butyl Ether (EtBE)	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
Hexachlorobutadiene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
2-Hexanone	0.010	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*
Isopropylbenzene	0.0010	*<0.0010*	**0.22**	**0.040**	**0.015**	**0.026**
p-Isopropyltoluene	0.0020	*<0.0020*	**0.069**	**0.012**	**0.0045**	**0.010**
Methylene chloride	0.050	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*
4-Methyl-2-pentanone	0.010	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*
Methyl-tert-butyl ether (MtBE)	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
Napthalene	0.0020	*<0.0020*	**4.0**	**0.24**	**0.11**	**0.27**
n-Propylbenzene	0.0010	*<0.0010*	**2.2**	**0.20**	**0.073**	**0.14**
Styrene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
1,1,1,2-Tetrachloroethane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
1,1,2,2-Tetrachloroethane	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
Tetrachloroethene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
Toluene	0.0010	*<0.0010*	**0.20**	**0.019**	**0.0045**	**0.013**
1,2,3-Trichlorobenzene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
1,2,4-Trichlorobenzene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
1,1,1-Trichloroethane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
1,1,2-Trichloroethane	0.0030	*<0.0030*	*<0.0030*	*<0.0030*	*<0.0030*	*<0.0030*
Trichloroethene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	**0.0013**	*<0.0010*
1,2,3-Trichloropropane	0.0030	*<0.0030*	*<0.0030*	*<0.0030*	*<0.0030*	*<0.0030*
Trichlorofluoromethane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
Trichlorotrifluoroethane	0.0050	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*
1,2,4-Trimethylbenzene	0.0010	*<0.0010*	**14**	**1.2**	**0.65**	**1.4**
1,3,5-Trimethylbenzene	0.0010	*<0.0010*	**3.3**	**0.25**	**0.12**	**0.24**
Vinyl chloride	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	**0.0035**	*<0.0020*
Xylenes, m-,p-	0.0020	*<0.0020*	**2.4**	**0.22**	**0.090**	**0.16**
Xylene, o-	0.0010	*<0.0010*	**0.84**	**0.079**	**0.029**	**0.048**

SURROGATE	SPK CONC	ACP%	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	70-130	101	97	99	99	100
Toluene-d8	50	70-130	100	99	101	100	102
Bromofluorobenzene	50	70-130	100	90	102	105	102

Centrum Analytical Laboratories, Inc.

Project No: 25535 Hawthorne Blvd. Torrance, CA / PA255351X **Lab Job No:** M4-1013

ANALYTICAL RESULT FOR ORGANICS

Method: EPA 8260B **Reporting Unit:** mg/Kg

	LAB SAMPLE I.D.	M4-1013-5	M4-1013-6			
	CLIENT SAMPLE I.D.	LAH-31d75	LAH-31d77			
	DATE SAMPLED	07/09/07	07/09/07			
	DATE EXTRACTED	NA	NA			
	DATE ANALYZED	07/09/07	07/09/07			
	EXTRACTION SOLVENT	NA	NA			
	EXTRACTION METHOD	EPA 5035	EPA 5035			
	DILUTION FACTOR	1	1			
COMPOUND	CRDL					
Acetone	0.050	*<0.050*	*<0.050*			
tert-Amyl Methyl Ether (TAME)	0.0020	*<0.0020*	*<0.0020*			
Benzene	0.0010	**0.0013**	**0.0022**			
Bromobenzene	0.0050	*<0.0050*	*<0.0050*			
Bromochloromethane	0.0050	*<0.0050*	*<0.0050*			
Bromodichloromethane	0.0010	*<0.0010*	*<0.0010*			
Bromoform	0.0050	*<0.0050*	*<0.0050*			
Bromomethane	0.0050	*<0.0050*	*<0.0050*			
tert-Butanol (TBA)	0.020	*<0.020*	*<0.020*			
2-Butanone (MEK)	0.010	*<0.010*	*<0.010*			
n-Butylbenzene	0.0020	**0.023**	**0.032**			
sec-Butylbenzene	0.0020	**0.0077**	**0.011**			
tert-Butylbenzene	0.0020	*<0.0020*	*<0.0020*			
Carbon disulfide	0.010	*<0.010*	*<0.010*			
Carbon tetrachloride	0.0010	*<0.0010*	*<0.0010*			
Chlorobenzene	0.0010	*<0.0010*	*<0.0010*			
Chloroethane	0.0050	*<0.0050*	*<0.0050*			
Chloroform	0.0020	*<0.0020*	*<0.0020*			
Chloromethane	0.0010	*<0.0010*	*<0.0010*			
2-Chlorotoluene	0.0020	*<0.0020*	*<0.0020*			
4-Chlorotoluene	0.0020	*<0.0020*	*<0.0020*			
Dibromochloromethane	0.0020	*<0.0020*	*<0.0020*			
1,2-Dibromoethane	0.0020	*<0.0020*	*<0.0020*			
1,2-Dibromo-3-chloropropane	0.010	*<0.010*	*<0.010*			
Dibromomethane	0.0010	*<0.0010*	*<0.0010*			
1,2-Dichlorobenzene	0.0010	*<0.0010*	*<0.0010*			
1,3-Dichlorobenzene	0.0020	*<0.0020*	*<0.0020*			
1,4-Dichlorobenzene	0.0020	*<0.0020*	*<0.0020*			
Dichlorodifluoromethane	0.0050	*<0.0050*	*<0.0050*			
1,1-Dichloroethane	0.0010	*<0.0010*	*<0.0010*			
1,2-Dichloroethane	0.0010	*<0.0010*	*<0.0010*			
1,1-Dichloroethene	0.0050	*<0.0050*	*<0.0050*			
cis-1,2-Dichloroethene	0.0020	*<0.0020*	*<0.0020*			
trans-1,2-Dichloroethene	0.0020	*<0.0020*	*<0.0020*			
1,2-Dichloropropane	0.0010	*<0.0010*	*<0.0010*			
1,3-Dichloropropane	0.0010	*<0.0010*	*<0.0010*			
2,2-Dichloropropane	0.0010	*<0.0010*	*<0.0010*			
1,1-Dichloropropene	0.0010	*<0.0010*	*<0.0010*			
cis-1,3-Dichloropropene	0.0010	*<0.0010*	*<0.0010*			
trans-1,3-Dichloropropene	0.0010	*<0.0010*	*<0.0010*			
Diisopropyl Ether (DIPE)	0.0020	*<0.0020*	*<0.0020*			

Centrum Analytical Laboratories, Inc.

ANALYTICAL RESULT FOR ORGANICS (Continued)

COMPOUND	CRDL	LAH-31d75	LAH-31d77			
Ethylbenzene	0.0010	**0.058**	**0.092**			
Ethyl tert-Butyl Ether (EtBE)	0.0020	*<0.0020*	*<0.0020*			
Hexachlorobutadiene	0.0010	*<0.0010*	*<0.0010*			
2-Hexanone	0.010	*<0.010*	*<0.010*			
Isopropylbenzene	0.0010	**0.010**	**0.016**			
p-Isopropyltoluene	0.0020	**0.0028**	**0.0045**			
Methylene chloride	0.050	*<0.050*	*<0.050*			
4-Methyl-2-pentanone	0.010	*<0.010*	*<0.010*			
Methyl-tert-butyl ether (MtBE)	0.0010	*<0.0010*	*<0.0010*			
Napthalene	0.0020	**0.076**	**0.10**			
n-Propylbenzene	0.0010	**0.050**	**0.078**			
Styrene	0.0010	*<0.0010*	*<0.0010*			
1,1,1,2-Tetrachloroethane	0.0010	*<0.0010*	*<0.0010*			
1,1,2,2-Tetrachloroethane	0.0020	*<0.0020*	*<0.0020*			
Tetrachloroethene	0.0010	*<0.0010*	*<0.0010*			
Toluene	0.0010	**0.010**	**0.051**			
1,2,3-Trichlorobenzene	0.0020	*<0.0020*	*<0.0020*			
1,2,4-Trichlorobenzene	0.0020	*<0.0020*	*<0.0020*			
1,1,1-Trichloroethane	0.0010	*<0.0010*	*<0.0010*			
1,1,2-Trichloroethane	0.0030	*<0.0030*	*<0.0030*			
Trichloroethene	0.0010	*<0.0010*	*<0.0010*			
1,2,3-Trichloropropane	0.0030	*<0.0030*	*<0.0030*			
Trichlorofluoromethane	0.0010	*<0.0010*	*<0.0010*			
Trichlorotrifluoroethane	0.0050	*<0.0050*	*<0.0050*			
1,2,4-Trimethylbenzene	0.0010	**0.25**	**0.86**			
1,3,5-Trimethylbenzene	0.0010	**0.084**	**0.16**			
Vinyl chloride	0.0020	*<0.0020*	*<0.0020*			
Xylenes, m-,p-	0.0020	**0.085**	**0.26**			
Xylene, o-	0.0010	**0.030**	**0.12**			

SURROGATE	SPK CONC	ACP%	%RC	%RC			
Dibromofluoromethane	50	70-130	98	98			
Toluene-d8	50	70-130	102	100			
Bromofluorobenzene	50	70-130	99	97			

Centrum Analytical Laboratories, Inc.

Project No: 25535 Hawthorne Blvd. Torrance, CA / PA255351X **Lab Job No:** M4-1013

ANALYTICAL RESULT FOR ORGANICS

Method: EPA 8260B **Reporting Unit:** mg/Kg

LAB SAMPLE I.D.		M4-1013-9	M4-1013-10			
CLIENT SAMPLE I.D.		Composite: SP-1	Composite: SP-2			
DATE SAMPLED		07/09/07	07/09/07			
DATE EXTRACTED		NA	NA			
DATE ANALYZED		07/09/07	07/09/07			
EXTRACTION SOLVENT		NA	NA			
EXTRACTION METHOD		mod. EPA 5035	mod. EPA 5035			
DILUTION FACTOR		1	50			
COMPOUND	CRDL					
Acetone	0.050	*<0.050*	*<2.5*			
tert-Amyl Methyl Ether (TAME)	0.0020	*<0.0020*	*<0.10*			
Benzene	0.0010	**0.0011**	*<0.050*			
Bromobenzene	0.0050	*<0.0050*	*<0.25*			
Bromochloromethane	0.0050	*<0.0050*	*<0.25*			
Bromodichloromethane	0.0010	*<0.0010*	*<0.050*			
Bromoform	0.0050	*<0.0050*	*<0.25*			
Bromomethane	0.0050	*<0.0050*	*<0.25*			
tert-Butanol (TBA)	0.020	*<0.020*	*<1.0*			
2-Butanone (MEK)	0.010	*<0.010*	*<0.50*			
n-Butylbenzene	0.0020	**0.0028**	**0.20**			
sec-Butylbenzene	0.0020	*<0.0020*	*<0.10*			
tert-Butylbenzene	0.0020	*<0.0020*	*<0.10*			
Carbon disulfide	0.010	*<0.010*	*<0.50*			
Carbon tetrachloride	0.0010	*<0.0010*	*<0.050*			
Chlorobenzene	0.0010	*<0.0010*	*<0.050*			
Chloroethane	0.0050	*<0.0050*	*<0.25*			
Chloroform	0.0020	*<0.0020*	*<0.10*			
Chloromethane	0.0010	*<0.0010*	*<0.050*			
2-Chlorotoluene	0.0020	*<0.0020*	*<0.10*			
4-Chlorotoluene	0.0020	*<0.0020*	*<0.10*			
Dibromochloromethane	0.0020	*<0.0020*	*<0.10*			
1,2-Dibromoethane	0.0020	*<0.0020*	*<0.10*			
1,2-Dibromo-3-chloropropane	0.010	*<0.010*	*<0.50*			
Dibromomethane	0.0010	*<0.0010*	*<0.050*			
1,2-Dichlorobenzene	0.0010	*<0.0010*	*<0.050*			
1,3-Dichlorobenzene	0.0020	*<0.0020*	*<0.10*			
1,4-Dichlorobenzene	0.0020	*<0.0020*	*<0.10*			
Dichlorodifluoromethane	0.0050	*<0.0050*	*<0.25*			
1,1-Dichloroethane	0.0010	*<0.0010*	*<0.050*			
1,2-Dichloroethane	0.0010	*<0.0010*	*<0.050*			
1,1-Dichloroethene	0.0050	*<0.0050*	*<0.25*			
cis-1,2-Dichloroethene	0.0020	*<0.0020*	*<0.10*			
trans-1,2-Dichloroethene	0.0020	*<0.0020*	*<0.10*			
1,2-Dichloropropane	0.0010	*<0.0010*	*<0.050*			
1,3-Dichloropropane	0.0010	*<0.0010*	*<0.050*			
2,2-Dichloropropane	0.0010	*<0.0010*	*<0.050*			
1,1-Dichloropropene	0.0010	*<0.0010*	*<0.050*			
cis-1,3-Dichloropropene	0.0010	*<0.0010*	*<0.050*			
trans-1,3-Dichloropropene	0.0010	*<0.0010*	*<0.050*			
Diisopropyl Ether (DIPE)	0.0020	*<0.0020*	*<0.10*			

Centrum Analytical Laboratories, Inc.

ANALYTICAL RESULT FOR ORGANICS (Continued)

COMPOUND	CRDL	Composite: SP-1	Composite: SP-2			
Ethylbenzene	0.0010	**0.014**	**0.16**			
Ethyl tert-Butyl Ether (EtBE)	0.0020	*<0.0020*	*<0.10*			
Hexachlorobutadiene	0.0010	*<0.0010*	*<0.050*			
2-Hexanone	0.010	*<0.010*	*<0.50*			
Isopropylbenzene	0.0010	**0.0016**	*<0.050*			
p-Isopropyltoluene	0.0020	*<0.0020*	*<0.10*			
Methylene chloride	0.050	*<0.050*	*<2.5*			
4-Methyl-2-pentanone	0.010	*<0.010*	*<0.50*			
Methyl-tert-butyl ether (MtBE)	0.0010	*<0.0010*	*<0.050*			
Napthalene	0.0020	**0.012**	**0.85**			
n-Propylbenzene	0.0010	**0.0076**	**0.26**			
Styrene	0.0010	*<0.0010*	*<0.050*			
1,1,1,2-Tetrachloroethane	0.0010	*<0.0010*	*<0.050*			
1,1,2,2-Tetrachloroethane	0.0020	*<0.0020*	*<0.10*			
Tetrachloroethene	0.0010	*<0.0010*	*<0.050*			
Toluene	0.0010	**0.0035**	*<0.050*			
1,2,3-Trichlorobenzene	0.0020	*<0.0020*	*<0.10*			
1,2,4-Trichlorobenzene	0.0020	*<0.0020*	*<0.10*			
1,1,1-Trichloroethane	0.0010	*<0.0010*	*<0.050*			
1,1,2-Trichloroethane	0.0030	*<0.0030*	*<0.15*			
Trichloroethene	0.0010	*<0.0010*	*<0.050*			
1,2,3-Trichloropropane	0.0030	*<0.0030*	*<0.15*			
Trichlorofluoromethane	0.0010	*<0.0010*	*<0.050*			
Trichlorotrifluoroethane	0.0050	*<0.0050*	*<0.25*			
1,2,4-Trimethylbenzene	0.0010	**0.083**	**2.7**			
1,3,5-Trimethylbenzene	0.0010	**0.024**	**0.65**			
Vinyl chloride	0.0020	*<0.0020*	*<0.10*			
Xylenes, m-,p-	0.0020	**0.039**	**0.46**			
Xylene, o-	0.0010	**0.025**	**0.20**			

SURROGATE	SPK CONC	ACP%	%RC	%RC			
Dibromofluoromethane	50	70-130	99	100			
Toluene-d8	50	70-130	102	100			
Bromofluorobenzene	50	70-130	100	100			

Centrum Analytical Laboratories, Inc.

Project No: 25535 Hawthorne Blvd. Torrance, CA / PA255351X **Lab Job No:** M4-1013

QA/QC REPORT (Continued)

II. Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate(LCSD)

DATE PERFORMED: 07/09/07 ANALYTICAL METHOD: EPA 8260B

BATCH #: M48260S1613

LAB SAMPLE I.D.: Laboratory Control Sample REPORTING UNITS: mg/Kg

ANALYTE	SAMPLE RESULT	SPK CONC	LCS	%LCS	SPIKE CONC (DUP)	LCSD	%LCSD	RPD	LCS/LCSD LIMIT	RPD Limit
1,1-Dichloroethene	0.0	0.050	0.04922	98%	0.050	0.05134	103%	4.2%	70-130	25
Benzene	0.0	0.050	0.04618	92%	0.050	0.05196	104%	11.8%	70-130	25
Trichloroethene	0.0	0.050	0.04490	90%	0.050	0.05199	104%	14.6%	70-130	25
Toluene	0.0	0.050	0.04530	91%	0.050	0.05109	102%	12.0%	70-130	25
Chlorobenzene	0.0	0.050	0.04578	92%	0.050	0.05006	100%	8.9%	70-130	25

III. Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 07/09/07 ANALYTICAL METHOD: EPA 8260B

STANDARD SUPPLY SOURCE: Centrum Analytical Laboratories DATE OF SOURCE: 07/02/07

INSTRUMENT I.D.: M4GCMS LOT NUMBER: VD-09-02a

LAB LCS I.D.: Laboratory Control Sample REPORTING UNITS: mg/Kg

ANALYTE	SPIKE CONC	RESULT	% RECOVERY	ACP % REC LIMIT
1,1-Dichloroethene	0.050	0.04922	98%	70-130
Benzene	0.050	0.04618	92%	70-130
Trichloroethene	0.050	0.04490	90%	70-130
Toluene	0.050	0.04530	91%	70-130
Chlorobenzene	0.050	0.04578	92%	70-130

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Chain of Custody Record

Centrum Job # M4-1013

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Centrum Analytical Laboratories, Inc.

1401 Research Park Drive, Suite 100
Riverside, CA 92507
Voice: 951.779.0310 • 800.798.9336
Fax: 951.779.0344

3299 Hill Street, Suite 305
Signal Hill, CA 90755
Voice: 562.498.7005
Fax: 562.498.8617

www.centrum-labs.com lab@centrum-labs.com

Project No: PA2553S1X

Project Name: 25535 Hawthorne Blvd Torrance, CA

Project Manager: Gretchen Tagavilla

Phone: 626-256-6663 Fax: 626-256-6263

email: GTAGAVILLA@DELTAENV.COM

Client Name: BILL: CALSCIENCE (Report and Billing)

Address: (Report and Billing) 911 SOUTH PRIMROSE AVE., STE. K MONROVIA, CA 91016

Note: Reports and invoice will be sent here

DELTA ENVIRONMENTAL

Please Circle Analyses Requested

Centrum ID (Lab use only)	Sample ID (As it should appear on report)	Date sampled	Time sampled	Sample matrix	Site location	Containers: # and type	LUFT Diesel, or EPA 8015B DRO	LUFT Gas, or EPA 8015B GRO	Fuel ID (TVH, TEH), Carbon Chain (specify ranges)	8021B: BTEX/MTBE Only	VOCs: 8260B or 624	VOCs: BTEX/oxygenates Only	SVOCs: 8270C, or 625	8081A/8082: Pesticides, or PCBs, or Pest/PCB	Metals: Title 22 (CAM) or RCRA, or PP	Metals: TCLP, STLC	pH, TDS, TSS	418.1 (TRPH), or 413.2, or 1664
1	LAH-31d30	7/9/07	0900	SOIL		3 BLEEVE VOAS		X			X	X						
2	LAH-31d40		0950					X			X	X						
3	LAH-31d50		1035					X			X	X						
4	LAH-31d60		1130					X			X	X						
5	LAH-31d75		1234					X			X	X						
6	LAH-31d80		1337					X			X	X						
7	SP-1		1400			4 JARS		X			X				X			
8	SP-2		1400			4 JARS		X			X				X			
9	Composite: SP-1		1400			1 JAR		X			X	X			X			
10	Composite: SP-2		1400					X			X	X			X			

COMPOSITE BEFORE ANALYSIS (10)

Turn-Around Time (see note *)

- ☐ 24 Hr. RUSH *
- ☐ 48 Hr. RUSH *
- ☒ Normal TAT
- ☒ Other MOBILE LAB

* Requires PRIOR approval, additional charges apply

Requested due date: _____

Remarks/Special Instructions

1) Relinquished by: (Sampler's Signature) Gretchen Tagavilla — Date: 7/9/07 Time: 1445

2) Received by: — Date: — Time:

3) Relinquished by: — Date: — Time:

4) Received by: — Date: — Time:

5) Relinquished by: — Date: — Time:

6) Received for Laboratory by: [illegible] — Date: 7/9/07 Time: 1445

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

Laboratory Notes: CENTRUM SYRINGES USED FOR SAMPLING

To be completed by Laboratory personnel:

Chilled? ☐ Yes Temp ___ C ☒ From Field

Custody seals? ☐ Yes ☒ No

All sample containers intact? ☒ Yes ☐ No

☐ Courier ☐ UPS/Fed Ex ☒ Hand carried

Sample Disposal

- ☐ Client will pick up
- ☐ Return to client
- ☐ Lab disposal

Sample Locator Number: _____

Report Formats: Check all applicable

☐ Paper report ☐ PDF report (include email address)

☒ LARWQCB ☐ EDF (include global ID) ☐ EDD (GISKEY) ☐ EDD (Other) *

* with prior approval only

White Copy - Original (Accompanies Samples) Yellow Copy - Centrum Files Pink Copy - Client Copy

LAH-30

Centrum
Analytical
Laboratories, Inc.
CERTIFIED HAZARDOUS WASTE TESTING MOBILE & IN HOUSE LABORATORIES

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 1)

Laboratory Name:	Centrum Analytical Laboratories, Inc.
Address:	1401 Research Park Drive, Suite 100, Riverside, CA 92507
Telephone/Fax:	(951) 779-0310/(951) 779-0344
ELAP Certification No./ Expiration Date:	2373 / June 31, 2007
Authorized Signature Name, Title: (print)	Mark B. Horan, Laboratory Director
Signature, Date:	Mark Horan 2007.07.31 10:41:09 -07'00'
Laboratory Job Number:	M4-1014
Client Name:	Delta Environmental
Project Name/No:	25535 Hawthorne Blvd. Torrance, CA / PA255351X
Date(s) Sampled: (from - to)	07/10/07 - 07/10/07
Date(s) Received: (from - to)	07/10/07 - 07/10/07
Date(s) Reported: (from - to)	07/10/07 - 07/31/07
Chain of Custody received:	Yes X No
Comments:	

(RWQCB Lab Form: Ver 6/00)

951•779•0310 or 800•798•9336 fax 951•779•0344
www.centrum-labs.com 1401 Research Park Drive, Suite 100, Riverside, CA 92507

Centrum
Analytical
Laboratories, Inc.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

Laboratory Job Number: M4-1014

Organic Analyses	# of Samples	# of Samples Subcontracted
EPA 8260B	6	0
LUFT TPH Gasoline	6	0

Sample Condition: Intact

Inorganic Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Microbiological Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Other Types of Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

(RWQCB Lab Form: Ver 6/00)

Centrum Analytical Laboratories, Inc.

Project No: 25535 Hawthorne Blvd. Torrance, CA / PA255351X **Lab Job No:** M4-1014

ANALYTICAL RESULT FOR ORGANICS

Method: EPA 8260B **Reporting Unit:** mg/Kg

LAB SAMPLE I.D.			Method Blank	M4-1014-1	M4-1014-2	M4-1014-3	M4-1014-4
CLIENT SAMPLE I.D.			NA	LAH-30d32.5	LAH-30d42.5	LAH-30d47.5	LAH-30d52.5
DATE SAMPLED			07/10/07	07/10/07	07/10/07	07/10/07	07/10/07
DATE EXTRACTED			NA	NA	NA	NA	NA
DATE ANALYZED			07/10/07	07/10/07	07/10/07	07/10/07	07/10/07
EXTRACTION SOLVENT			NA	NA	NA	NA	NA
EXTRACTION METHOD			EPA 5035	EPA 5035	EPA 5035	EPA 5035	EPA 5035
DILUTION FACTOR			1	1	1	1	1
COMPOUND		CRDL					
Gasoline (C4-C12)		0.20	*<0.20*	**1.2**	*<0.20*	*<0.20*	**0.57**
SURROGATE	SPK CONC	ACP%	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	70-130	100	102	101	102	102
Toluene-d8	50	70-130	100	102	101	100	103
Bromofluorobenzene	50	70-130	102	96	101	102	102

LAB SAMPLE I.D.			M4-1014-5	M4-1014-6			
CLIENT SAMPLE I.D.			LAH-30d62.5	LAH-30d72.5			
DATE SAMPLED			07/10/07	07/10/07			
DATE EXTRACTED			NA	NA			
DATE ANALYZED			07/10/07	07/10/07			
EXTRACTION SOLVENT			NA	NA			
EXTRACTION METHOD			EPA 5035	EPA 5035			
DILUTION FACTOR			1	1			
COMPOUND		CRDL					
Gasoline (C4-C12)		0.20	**1.1**	**0.21**			
SURROGATE	SPK CONC	ACP%	%RC	%RC			
Dibromofluoromethane	50	70-130	101	101			
Toluene-d8	50	70-130	103	101			
Bromofluorobenzene	50	70-130	99	100			

Centrum Analytical Laboratories, Inc.

Project No: 25535 Hawthorne Blvd. Torrance, CA / PA255351X **Lab Job No:** M4-1014

QA/QC REPORT (Continued)

II. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 07/10/07 ANALYTICAL METHOD: LUFT TPHg

BATCH #: M4TPHGS1614

LAB SAMPLE I.D.: LAH-30d42.5 REPORTING UNITS: mg/Kg

ANALYTE	SAMPLE RESULT	SPK CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD Limit
Gasoline	0.0	2.0	2.40	120%	2.0	1.95	98%	20.7%	70-130	25

III. Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 07/10/07 ANALYTICAL METHOD: LUFT TPHg

STANDARD SUPPLY SOURCE: Centrum Analytical Laboratories DATE OF SOURCE: 05/31/07

INSTRUMENT I.D.: M4GCMS LOT NUMBER: VD-05-02d

LAB LCS I.D.: Laboratory Control Sample REPORTING UNITS: mg/Kg

ANALYTE	SPIKE CONC	RESULT	% RECOVERY	ACP % REC LIMIT
Gasoline	2.0	2.29	115%	70-130

Centrum Analytical Laboratories, Inc.

Project No: 25535 Hawthorne Blvd. Torrance, CA / PA255351X **Lab Job No:** M4-1014

ANALYTICAL RESULT FOR ORGANICS

Method: EPA 8260B **Reporting Unit:** mg/Kg

LAB SAMPLE I.D.		Method Blank	M4-1014-1	M4-1014-2	M4-1014-3	M4-1014-4
CLIENT SAMPLE I.D.		NA	LAH-30d32.5	LAH-30d42.5	LAH-30d47.5	LAH-30d52.5
DATE SAMPLED		07/10/07	07/10/07	07/10/07	07/10/07	07/10/07
DATE EXTRACTED		NA	NA	NA	NA	NA
DATE ANALYZED		07/10/07	07/10/07	07/10/07	07/10/07	07/10/07
EXTRACTION SOLVENT		NA	NA	NA	NA	NA
EXTRACTION METHOD		EPA 5035	EPA 5035	EPA 5035	EPA 5035	EPA 5035
DILUTION FACTOR		1	1	1	1	1
COMPOUND	CRDL					
Acetone	0.050	<0.050	<0.050	<0.050	<0.050	<0.050
tert-Amyl Methyl Ether (TAME)	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Benzene	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bromobenzene	0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Bromochloromethane	0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Bromodichloromethane	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bromoform	0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Bromomethane	0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
tert-Butanol (TBA)	0.020	<0.020	<0.020	<0.020	<0.020	<0.020
2-Butanone (MEK)	0.010	<0.010	<0.010	<0.010	<0.010	<0.010
n-Butylbenzene	0.0020	<0.0020	**0.0047**	<0.0020	<0.0020	**0.0026**
sec-Butylbenzene	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
tert-Butylbenzene	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Carbon disulfide	0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Carbon tetrachloride	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chlorobenzene	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chloroethane	0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chloroform	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Chloromethane	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
2-Chlorotoluene	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
4-Chlorotoluene	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Dibromochloromethane	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
1,2-Dibromoethane	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
1,2-Dibromo-3-chloropropane	0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Dibromomethane	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,2-Dichlorobenzene	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3-Dichlorobenzene	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
1,4-Dichlorobenzene	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Dichlorodifluoromethane	0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
1,1-Dichloroethane	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,2-Dichloroethane	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,1-Dichloroethene	0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
cis-1,2-Dichloroethene	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
trans-1,2-Dichloroethene	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
1,2-Dichloropropane	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3-Dichloropropane	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
2,2-Dichloropropane	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,1-Dichloropropene	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
cis-1,3-Dichloropropene	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
trans-1,3-Dichloropropene	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Diisopropyl Ether (DIPE)	0.0020	<0.0020	**0.0027**	<0.0020	<0.0020	<0.0020

Centrum Analytical Laboratories, Inc.

ANALYTICAL RESULT FOR ORGANICS (Continued)

COMPOUND	CRDL	Method Blank	LAH-30d32.5	LAH-30d42.5	LAH-30d47.5	LAH-30d52.5
Ethylbenzene	0.0010	*<0.0010*	**0.026**	*<0.0010*	**0.0018**	**0.0094**
Ethyl tert-Butyl Ether (EtBE)	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
Hexachlorobutadiene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
2-Hexanone	0.010	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*
Isopropylbenzene	0.0010	*<0.0010*	**0.0030**	*<0.0010*	*<0.0010*	**0.0012**
p-Isopropyltoluene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
Methylene chloride	0.050	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*
4-Methyl-2-pentanone	0.010	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*
Methyl-tert-butyl ether (MtBE)	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
Napthalene	0.0020	*<0.0020*	**0.013**	*<0.0020*	*<0.0020*	**0.0098**
n-Propylbenzene	0.0010	*<0.0010*	**0.014**	*<0.0010*	**0.0010**	**0.0059**
Styrene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
1,1,1,2-Tetrachloroethane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
1,1,2,2-Tetrachloroethane	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
Tetrachloroethene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
Toluene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
1,2,3-Trichlorobenzene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
1,2,4-Trichlorobenzene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
1,1,1-Trichloroethane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
1,1,2-Trichloroethane	0.0030	*<0.0030*	*<0.0030*	*<0.0030*	*<0.0030*	*<0.0030*
Trichloroethene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
1,2,3-Trichloropropane	0.0030	*<0.0030*	*<0.0030*	*<0.0030*	*<0.0030*	*<0.0030*
Trichlorofluoromethane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
Trichlorotrifluoroethane	0.0050	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*
1,2,4-Trimethylbenzene	0.0010	*<0.0010*	**0.10**	**0.0025**	**0.0085**	**0.048**
1,3,5-Trimethylbenzene	0.0010	*<0.0010*	**0.028**	*<0.0010*	**0.0022**	**0.013**
Vinyl chloride	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
Xylenes, m-,p-	0.0020	*<0.0020*	**0.076**	*<0.0020*	**0.0038**	**0.028**
Xylene, o-	0.0010	*<0.0010*	**0.027**	*<0.0010*	**0.0015**	**0.010**

SURROGATE	SPK CONC	ACP%	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	70-130	100	102	101	102	102
Toluene-d8	50	70-130	100	102	101	100	103
Bromofluorobenzene	50	70-130	102	96	101	102	102

Centrum Analytical Laboratories, Inc.

Project No: 25535 Hawthorne Blvd. Torrance, CA / PA255351X **Lab Job No:** M4-1014

ANALYTICAL RESULT FOR ORGANICS

Method: EPA 8260B **Reporting Unit:** mg/Kg

	LAB SAMPLE I.D.	M4-1014-5	M4-1014-6			
	CLIENT SAMPLE I.D.	LAH-30d62.5	LAH-30d72.5			
	DATE SAMPLED	07/10/07	07/10/07			
	DATE EXTRACTED	NA	NA			
	DATE ANALYZED	07/10/07	07/10/07			
	EXTRACTION SOLVENT	NA	NA			
	EXTRACTION METHOD	EPA 5035	EPA 5035			
	DILUTION FACTOR	1	1			
COMPOUND	CRDL					
Acetone	0.050	*<0.050*	*<0.050*			
tert-Amyl Methyl Ether (TAME)	0.0020	*<0.0020*	*<0.0020*			
Benzene	0.0010	*<0.0010*	*<0.0010*			
Bromobenzene	0.0050	*<0.0050*	*<0.0050*			
Bromochloromethane	0.0050	*<0.0050*	*<0.0050*			
Bromodichloromethane	0.0010	*<0.0010*	*<0.0010*			
Bromoform	0.0050	*<0.0050*	*<0.0050*			
Bromomethane	0.0050	*<0.0050*	*<0.0050*			
tert-Butanol (TBA)	0.020	*<0.020*	*<0.020*			
2-Butanone (MEK)	0.010	*<0.010*	*<0.010*			
n-Butylbenzene	0.0020	**0.0038**	*<0.0020*			
sec-Butylbenzene	0.0020	*<0.0020*	*<0.0020*			
tert-Butylbenzene	0.0020	*<0.0020*	*<0.0020*			
Carbon disulfide	0.010	*<0.010*	*<0.010*			
Carbon tetrachloride	0.0010	*<0.0010*	*<0.0010*			
Chlorobenzene	0.0010	*<0.0010*	*<0.0010*			
Chloroethane	0.0050	*<0.0050*	*<0.0050*			
Chloroform	0.0020	*<0.0020*	*<0.0020*			
Chloromethane	0.0010	*<0.0010*	*<0.0010*			
2-Chlorotoluene	0.0020	*<0.0020*	*<0.0020*			
4-Chlorotoluene	0.0020	*<0.0020*	*<0.0020*			
Dibromochloromethane	0.0020	*<0.0020*	*<0.0020*			
1,2-Dibromoethane	0.0020	*<0.0020*	*<0.0020*			
1,2-Dibromo-3-chloropropane	0.010	*<0.010*	*<0.010*			
Dibromomethane	0.0010	*<0.0010*	*<0.0010*			
1,2-Dichlorobenzene	0.0010	*<0.0010*	*<0.0010*			
1,3-Dichlorobenzene	0.0020	*<0.0020*	*<0.0020*			
1,4-Dichlorobenzene	0.0020	*<0.0020*	*<0.0020*			
Dichlorodifluoromethane	0.0050	*<0.0050*	*<0.0050*			
1,1-Dichloroethane	0.0010	*<0.0010*	*<0.0010*			
1,2-Dichloroethane	0.0010	*<0.0010*	*<0.0010*			
1,1-Dichloroethene	0.0050	*<0.0050*	*<0.0050*			
cis-1,2-Dichloroethene	0.0020	*<0.0020*	*<0.0020*			
trans-1,2-Dichloroethene	0.0020	*<0.0020*	*<0.0020*			
1,2-Dichloropropane	0.0010	*<0.0010*	*<0.0010*			
1,3-Dichloropropane	0.0010	*<0.0010*	*<0.0010*			
2,2-Dichloropropane	0.0010	*<0.0010*	*<0.0010*			
1,1-Dichloropropene	0.0010	*<0.0010*	*<0.0010*			
cis-1,3-Dichloropropene	0.0010	*<0.0010*	*<0.0010*			
trans-1,3-Dichloropropene	0.0010	*<0.0010*	*<0.0010*			
Diisopropyl Ether (DIPE)	0.0020	*<0.0020*	*<0.0020*			

Centrum Analytical Laboratories, Inc.

ANALYTICAL RESULT FOR ORGANICS (Continued)

COMPOUND	CRDL	LAH-30d62.5	LAH-30d72.5			
Ethylbenzene	0.0010	**0.019**	**0.0031**			
Ethyl tert-Butyl Ether (EtBE)	0.0020	*<0.0020*	*<0.0020*			
Hexachlorobutadiene	0.0010	*<0.0010*	*<0.0010*			
2-Hexanone	0.010	*<0.010*	*<0.010*			
Isopropylbenzene	0.0010	**0.0022**	*<0.0010*			
p-Isopropyltoluene	0.0020	*<0.0020*	*<0.0020*			
Methylene chloride	0.050	*<0.050*	*<0.050*			
4-Methyl-2-pentanone	0.010	*<0.010*	*<0.010*			
Methyl-tert-butyl ether (MtBE)	0.0010	*<0.0010*	*<0.0010*			
Napthalene	0.0020	**0.012**	*<0.0020*			
n-Propylbenzene	0.0010	**0.010**	**0.0016**			
Styrene	0.0010	*<0.0010*	*<0.0010*			
1,1,1,2-Tetrachloroethane	0.0010	*<0.0010*	*<0.0010*			
1,1,2,2-Tetrachloroethane	0.0020	*<0.0020*	*<0.0020*			
Tetrachloroethene	0.0010	*<0.0010*	*<0.0010*			
Toluene	0.0010	*<0.0010*	*<0.0010*			
1,2,3-Trichlorobenzene	0.0020	*<0.0020*	*<0.0020*			
1,2,4-Trichlorobenzene	0.0020	*<0.0020*	*<0.0020*			
1,1,1-Trichloroethane	0.0010	*<0.0010*	*<0.0010*			
1,1,2-Trichloroethane	0.0030	*<0.0030*	*<0.0030*			
Trichloroethene	0.0010	*<0.0010*	*<0.0010*			
1,2,3-Trichloropropane	0.0030	*<0.0030*	*<0.0030*			
Trichlorofluoromethane	0.0010	*<0.0010*	*<0.0010*			
Trichlorotrifluoroethane	0.0050	*<0.0050*	*<0.0050*			
1,2,4-Trimethylbenzene	0.0010	**0.088**	**0.010**			
1,3,5-Trimethylbenzene	0.0010	**0.025**	**0.0028**			
Vinyl chloride	0.0020	*<0.0020*	*<0.0020*			
Xylenes, m-,p-	0.0020	**0.072**	**0.0089**			
Xylene, o-	0.0010	**0.026**	**0.0029**			

SURROGATE	SPK CONC	ACP%	%RC	%RC			
Dibromofluoromethane	50	70-130	101	101			
Toluene-d8	50	70-130	103	101			
Bromofluorobenzene	50	70-130	99	100			

Centrum Analytical Laboratories, Inc.

Project No: 25535 Hawthorne Blvd. Torrance, CA / PA255351X **Lab Job No:** M4-1014

QA/QC REPORT (Continued)

II. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 07/10/07 ANALYTICAL METHOD: EPA 8260B

BATCH #: M48260S1614

LAB SAMPLE I.D.: LAH-30d42.5 REPORTING UNITS: mg/Kg

ANALYTE	SAMPLE RESULT	SPK CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD Limit
1,1-Dichloroethene	0.0	0.050	0.04868	97%	0.050	0.04632	93%	5.0%	70-130	25
Benzene	0.0	0.050	0.04516	90%	0.050	0.04799	96%	6.1%	70-130	25
Trichloroethene	0.0	0.050	0.04576	92%	0.050	0.04781	96%	4.4%	70-130	25
Toluene	0.0	0.050	0.04530	91%	0.050	0.04698	94%	3.6%	70-130	25
Chlorobenzene	0.0	0.050	0.04385	88%	0.050	0.04509	90%	2.8%	70-130	25

III. Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 07/10/07 ANALYTICAL METHOD: EPA 8260B

STANDARD SUPPLY SOURCE: Centrum Analytical Laboratories DATE OF SOURCE: 07/02/07

INSTRUMENT I.D.: M4GCMS LOT NUMBER: VD-09-02a

LAB LCS I.D.: Laboratory Control Sample REPORTING UNITS: mg/Kg

ANALYTE	SPIKE CONC	RESULT	% RECOVERY	ACP % REC LIMIT
1,1-Dichloroethene	0.050	0.05281	106%	70-130
Benzene	0.050	0.04909	98%	70-130
Trichloroethene	0.050	0.04965	99%	70-130
Toluene	0.050	0.05036	101%	70-130
Chlorobenzene	0.050	0.04821	96%	70-130

Chain of Custody Record

Centrum Job # M4-1014

Centrum Analytical Laboratories, Inc.

1401 Research Park Drive, Suite 100
Riverside, CA 92507
Voice: 951.779.0310 • 800.798.9336
Fax: 951.779.0344

3299 Hill Street, Suite 305
Signal Hill, CA 90755
Voice: 562.498.7005
Fax: 562.498.8617

www.centrum-labs.com lab@centrum-labs.com

Project No: PA2553S1X

Project Name: 25535 HAWTHORNE BLVD, TORRANCE, CA

Project Manager: GRETCHEN TAGAVILLA

Phone: 626-256-6662 Fax: ~~714-897-6~~ 626-256-6263

email: GTAGAVILLA@DELTAENV.COM

Client Name: BILL; CALSCIENCE (Report and Billing)

Address: (Report and Billing) Note: Reports and invoice will be sent here

DELTA ENVIRONMENTAL

911 PRIMROSE AVE, STE. K
MONROVIA, CA 91016

Please Circle Analyses Requested

Centrum ID (Lab use only)	Sample ID (As it should appear on report)	Date sampled	Time sampled	Sample matrix	Site location	Containers: # and type	LUFT Diesel, or EPA 8015B DRO	LUFT Gas, or EPA 8015B GRO	Fuel ID (TVH, TEH), Carbon Chain (specify ranges)	8021B: BTEX/MBE Only	VOCs: 8260B or 624	VOCs: BTEX/Oxygenates Only	SVOCs: 8270C, or 625	8081A/8082: Pesticides, or PCBs, or Pest/PCB	Metals: Title 22 (CAM), or RCRA, or PP	Metals: TCLP, STLC	pH, TDS, TSS	418.1 (TRPH), or 413.2, or 1664	Remarks/Special Instructions
1	LAH-30d32.5	7/10/07	0842	SOIL		1 SLEEVE 3 VOAS		X			X	X							
2	LAH-30d42.5	"	0945	"		"		X			X	X							
3	LAH-30d47.5	"	1045	"		"		X			X	X							
4	LAH-30d52.5	"	1135	"		"		X			X	X							
5	LAH-30d62.5	"	1250	"		"		X			X	X							
6	LAH-30d72.5	"	1418	"		"		X			X	X							

7/10/07

1) Relinquished by: (Sampler's Signature) Date: 7/10/07 Time: 14:50

3) Relinquished by: Date: Time:

2) Received by: Date: Time:

4) Received by: Date: Time:

5) Relinquished by: Date: Time:

6) Received for Laboratory by: Date: 7/10/07 Time: 1450

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

Laboratory Notes:
10 JARS USED BY DELTA ENVIRONMENTAL. JT 7/11/07

Turn-Around Time (see note *)
- ☐ 24 Hr. RUSH *
- ☐ 48 Hr. RUSH *
- ☐ Normal TAT
- ☐ Other _____

* Requires PRIOR approval, additional charges apply

Requested due date: _____

To be completed by Laboratory personnel:
Chilled? ☐ Yes Temp ___ C ☒ Front Field
Custody seals? ☐ Yes ☒ No
All sample containers intact? ☒ Yes ☐ No
☐ Courier ☐ UPS/Fed Ex ☒ Hand carried

Sample Disposal
- ☐ Client will pick up
- ☐ Return to client
- ☐ Lab disposal

Sample Locator Number: _____

Report Formats: Check all applicable
- ☐ Paper report
- ☐ PDF report (include email address)
- ☒ LARWQCB
- ☐ EDF (include global ID)
- ☐ EDD (GISKEY)
- ☐ EDD (Other) *

* with prior approval only

White Copy - Original (Accompanies Samples) Yellow Copy - Centrum Files Pink Copy - Client Copy

LAH-23
LAH-13

Centrum Analytical Laboratories, Inc.
Certified Hazardous Waste Testing Mobile & In House Laboratories

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 1)

Laboratory Name:	Centrum Analytical Laboratories, Inc.
Address:	1401 Research Park Drive, Suite 100, Riverside, CA 92507
Telephone/Fax:	(951) 779-0310/(951) 779-0344
ELAP Certification No./ Expiration Date:	2373 / June 31, 2007
Authorized Signature Name, Title: (print)	Mark B. Horan, Laboratory Director
Signature, Date:	Mark Horan 2007.07.31 10:41:37 -07'00'
Laboratory Job Number:	M4-1015
Client Name:	Delta Environmental
Project Name/No:	25535 Hawthorne Blvd. Torrance, CA / PA255351X
Date(s) Sampled: (from - to)	07/11/07 - 07/11/07
Date(s) Received: (from - to)	07/11/07 - 07/11/07
Date(s) Reported: (from - to)	07/11/07 - 07/31/07
Chain of Custody received:	Yes X No
Comments:	

(RWQCB Lab Form: Ver 6/00)

951•779•0310 or 800•798•9336 fax 951•779•0344
www.centrum-labs.com 1401 Research Park Drive, Suite 100, Riverside, CA 92507

Centrum Analytical Laboratories, Inc.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

Laboratory Job Number: M4-1015

Organic Analyses	# of Samples	# of Samples Subcontracted
EPA 8260B	6	0
LUFT TPH Gasoline	6	0

Sample Condition: Intact

Inorganic Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Microbiological Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Other Types of Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

(RWQCB Lab Form: Ver 6/00)

Centrum Analytical Laboratories, Inc.

Project No: 25535 Hawthorne Blvd. Torrance, CA / PA255351X **Lab Job No:** M4-1015

ANALYTICAL RESULT FOR ORGANICS

Method: EPA 8260B **Reporting Unit:** mg/Kg

LAB SAMPLE I.D.			Method Blank	M4-1015-1	M4-1015-2	M4-1015-3	M4-1015-4
CLIENT SAMPLE I.D.			NA	LAH-23d30	LAH-23d40	LAH-23d50	LAH-13d30
DATE SAMPLED			07/11/07	07/11/07	07/11/07	07/11/07	07/11/07
DATE EXTRACTED			NA	NA	NA	NA	NA
DATE ANALYZED			07/11/07	07/11/07	07/11/07	07/11/07	07/11/07
EXTRACTION SOLVENT			NA	NA	NA	NA	NA
EXTRACTION METHOD			EPA 5035	EPA 5035	EPA 5035	EPA 5035	EPA 5035
DILUTION FACTOR			1	1	1	1	1
COMPOUND		CRDL					
Gasoline (C4-C12)		0.20	*<0.20*	**0.29**	**0.42**	*<0.20*	*<0.20*
SURROGATE	SPK CONC	ACP%	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	70-130	102	100	100	104	102
Toluene-d8	50	70-130	101	101	101	103	101
Bromofluorobenzene	50	70-130	101	100	99	101	100

LAB SAMPLE I.D.			M4-1015-5	M4-1015-6			
CLIENT SAMPLE I.D.			LAH-13d35	LAH-13d40			
DATE SAMPLED			07/11/07	07/11/07			
DATE EXTRACTED			NA	NA			
DATE ANALYZED			07/11/07	07/11/07			
EXTRACTION SOLVENT			NA	NA			
EXTRACTION METHOD			EPA 5035	EPA 5035			
DILUTION FACTOR			1	1			
COMPOUND		CRDL					
Gasoline (C4-C12)		0.20	*<0.20*	*<0.20*			
SURROGATE	SPK CONC	ACP%	%RC	%RC			
Dibromofluoromethane	50	70-130	102	103			
Toluene-d8	50	70-130	102	101			
Bromofluorobenzene	50	70-130	99	101			

Centrum Analytical Laboratories, Inc.

Project No: 25535 Hawthorne Blvd. Torrance, CA / PA255351X **Lab Job No:** M4-1015

QA/QC REPORT (Continued)

II. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 07/11/07 ANALYTICAL METHOD: LUFT TPHg

BATCH #: M4TPHGS1615

LAB SAMPLE I.D.: LAH-23d50 REPORTING UNITS: mg/Kg

ANALYTE	SAMPLE RESULT	SPK CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD Limit
Gasoline	0.0	2.0	2.48	124%	2.0	2.30	115%	7.5%	70-130	25

III. Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 07/11/07 ANALYTICAL METHOD: LUFT TPHg

STANDARD SUPPLY SOURCE: Centrum Analytical Laboratories DATE OF SOURCE: 05/31/07

INSTRUMENT I.D.: M4GCMS LOT NUMBER: VD-05-02d

LAB LCS I.D.: Laboratory Control Sample REPORTING UNITS: mg/Kg

ANALYTE	SPIKE CONC	RESULT	% RECOVERY	ACP % REC LIMIT
Gasoline	2.0	2.19	110%	70-130

Centrum Analytical Laboratories, Inc.

Project No: 25535 Hawthorne Blvd. Torrance, CA / PA255351X **Lab Job No:** M4-1015

ANALYTICAL RESULT FOR ORGANICS

Method: EPA 8260B **Reporting Unit:** mg/Kg

LAB SAMPLE I.D.		Method Blank	M4-1015-1	M4-1015-2	M4-1015-3	M4-1015-4
CLIENT SAMPLE I.D.		NA	LAH-23d30	LAH-23d40	LAH-23d50	LAH-13d30
DATE SAMPLED		07/11/07	07/11/07	07/11/07	07/11/07	07/11/07
DATE EXTRACTED		NA	NA	NA	NA	NA
DATE ANALYZED		07/11/07	07/11/07	07/11/07	07/11/07	07/11/07
EXTRACTION SOLVENT		NA	NA	NA	NA	NA
EXTRACTION METHOD		EPA 5035	EPA 5035	EPA 5035	EPA 5035	EPA 5035
DILUTION FACTOR		1	1	1	1	1
COMPOUND	CRDL					
Acetone	0.050	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*
tert-Amyl Methyl Ether (TAME)	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
Benzene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
Bromobenzene	0.0050	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*
Bromochloromethane	0.0050	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*
Bromodichloromethane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
Bromoform	0.0050	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*
Bromomethane	0.0050	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*
tert-Butanol (TBA)	0.020	*<0.020*	*<0.020*	*<0.020*	*<0.020*	*<0.020*
2-Butanone (MEK)	0.010	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*
n-Butylbenzene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
sec-Butylbenzene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
tert-Butylbenzene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
Carbon disulfide	0.010	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*
Carbon tetrachloride	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
Chlorobenzene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
Chloroethane	0.0050	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*
Chloroform	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
Chloromethane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
2-Chlorotoluene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
4-Chlorotoluene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
Dibromochloromethane	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
1,2-Dibromoethane	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
1,2-Dibromo-3-chloropropane	0.010	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*
Dibromomethane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
1,2-Dichlorobenzene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
1,3-Dichlorobenzene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
1,4-Dichlorobenzene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
Dichlorodifluoromethane	0.0050	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*
1,1-Dichloroethane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
1,2-Dichloroethane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
1,1-Dichloroethene	0.0050	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*	*<0.0050*
cis-1,2-Dichloroethene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
trans-1,2-Dichloroethene	0.0020	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*
1,2-Dichloropropane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
1,3-Dichloropropane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
2,2-Dichloropropane	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
1,1-Dichloropropene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
cis-1,3-Dichloropropene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
trans-1,3-Dichloropropene	0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*
Diisopropyl Ether (DIPE)	0.0020	*<0.0020*	*<0.0020*	**0.0082**	*<0.0020*	*<0.0020*

Appendix C: Analytical Laboratory Reports – Soil

eurofins | Calscience

WORK ORDER NUMBER: 18-01-0280

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Kennedy/Jenks Consultants

Client Project Name: Solana Torrance

Attention: Ryan Strandberg
3210 El Camino Real
Suite 150
Irvine, CA 92602-1365

Approved for release on 01/18/2018 by:
Richard Villafania
Project Manager

ResultLink ▸

Email your PM ▸

eurofins | Calscience

Contents

Client Project Name: Solana Torrance
Work Order Number: 18-01-0280

eurofins | Calscience

Work Order Narrative

Work Order: 18-01-0280 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 01/05/18. They were assigned to Work Order 18-01-0280.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	Kennedy/Jenks Consultants	Work Order:	18-01-0280
	3210 El Camino Real, Suite 150	Project Name:	Solana Torrance
	Irvine, CA 92602-1365	PO Number:	
		Date/Time Received:	01/05/18 16:10
		Number of Containers:	36
Attn:	Ryan Strandberg		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
KJ-07-15'	18-01-0280-1	01/04/18 13:57	1	Solid
KJ-07-19'	18-01-0280-2	01/04/18 14:18	1	Solid
KJ-03-11'	18-01-0280-3	01/04/18 16:05	1	Solid
KJ-03-5'	18-01-0280-4	01/04/18 15:58	1	Solid
KJ-09-14.5'	18-01-0280-5	01/04/18 14:45	1	Solid
KJ-09-15.5'	18-01-0280-6	01/04/18 14:45	1	Solid
KJ-09-25'	18-01-0280-7	01/04/18 14:59	1	Solid
KJ-04-1.5'	18-01-0280-8	01/03/18 13:19	1	Solid
KJ-04-2.5'	18-01-0280-9	01/03/18 13:19	1	Solid
KJ-04-10'	18-01-0280-10	01/03/18 13:25	1	Solid
KJ-01-4.5'	18-01-0280-11	01/04/18 08:15	1	Solid
KJ-01-5.5'	18-01-0280-12	01/04/18 08:15	1	Solid
KJ-01-15'	18-01-0280-13	01/04/18 08:21	1	Solid
KJ-02-4.5'	18-01-0280-14	01/04/18 10:45	1	Solid
KJ-02-5.5'	18-01-0280-15	01/04/18 10:45	1	Solid
KJ-02-25'	18-01-0280-16	01/04/18 11:00	1	Solid
KJ-05-4'	18-01-0280-17	01/04/18 13:40	1	Solid
KJ-05-4.5'	18-01-0280-18	01/04/18 13:43	1	Solid
KJ-05-10'	18-01-0280-19	01/04/18 13:55	1	Solid
KJ-06-4.5'	18-01-0280-20	01/03/18 09:50	1	Solid
KJ-06-5.5'	18-01-0280-21	01/03/18 09:50	1	Solid
KJ-06-10'	18-01-0280-22	01/03/18 10:00	1	Solid
KJ-08-5'	18-01-0280-23	01/04/18 15:37	1	Solid
KJ-08-15'	18-01-0280-24	01/04/18 15:45	1	Solid
KJ-10-10'	18-01-0280-25	01/03/18 11:25	1	Solid
KJ-10-15'	18-01-0280-26	01/03/18 11:32	1	Solid
EB-1	18-01-0280-27	01/03/18 10:30	7	Aqueous
KJ-07-15' DUP	18-01-0280-28	01/04/18 13:57	1	Solid
KJ-07-19' DUP	18-01-0280-29	01/04/18 14:18	1	Solid
KJ-09-24'	18-01-0280-30	01/04/18 14:59	1	Solid

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3060A
Method: EPA 7199
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15'	**18-01-0280-1-AA**	**01/04/18 13:57**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 13:06**	**180106L01P**

Parameter	Result	RL	DF	Qualifiers
Chromium, Hexavalent	800	400	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-09-15.5'	**18-01-0280-6-A**	**01/04/18 14:45**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 13:15**	**180106L01P**

Parameter	Result	RL	DF	Qualifiers
Chromium, Hexavalent	470	400	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-04-2.5'	**18-01-0280-9-A**	**01/03/18 13:19**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 13:24**	**180106L01P**

Parameter	Result	RL	DF	Qualifiers
Chromium, Hexavalent	ND	400	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-01-5.5'	**18-01-0280-12-A**	**01/04/18 08:15**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 13:33**	**180106L01P**

Parameter	Result	RL	DF	Qualifiers
Chromium, Hexavalent	470	400	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-02-5.5'	**18-01-0280-15-A**	**01/04/18 10:45**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 13:42**	**180106L01P**

Parameter	Result	RL	DF	Qualifiers
Chromium, Hexavalent	ND	400	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-05-4'	**18-01-0280-17-A**	**01/04/18 13:40**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 13:51**	**180106L01P**

Parameter	Result	RL	DF	Qualifiers
Chromium, Hexavalent	ND	400	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-06-5.5'	**18-01-0280-21-A**	**01/03/18 09:50**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 14:00**	**180106L01P**

Parameter	Result	RL	DF	Qualifiers
Chromium, Hexavalent	ND	400	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-08-5'	**18-01-0280-23-A**	**01/04/18 15:37**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 14:09**	**180106L01P**

Parameter	Result	RL	DF	Qualifiers
Chromium, Hexavalent	ND	400	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3060A
Method: EPA 7199
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-10-10'	**18-01-0280-25-A**	**01/03/18 11:25**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 14:18**	**180106L01P**

Parameter	Result	RL	DF	Qualifiers
Chromium, Hexavalent	ND	400	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15' DUP	**18-01-0280-28-AA**	**01/04/18 13:57**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 14:27**	**180106L01P**

Parameter	Result	RL	DF	Qualifiers
Chromium, Hexavalent	1100	400	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-125-3204**	**N/A**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 12:49**	**180106L01P**

Parameter	Result	RL	DF	Qualifiers
Chromium, Hexavalent	ND	400	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3510C
Method: EPA 8310
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**18-01-0280-27-A**	**01/03/18 10:30**	**Aqueous**	**HPLC 5**	**01/08/18**	**01/10/18 19:17**	**180108L02**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.95	1.00	
Acenaphthylene	ND	0.95	1.00	
Acenaphthene	ND	0.95	1.00	
Fluorene	ND	0.95	1.00	
Phenanthrene	ND	0.95	1.00	
Anthracene	ND	0.95	1.00	
Fluoranthene	ND	0.95	1.00	
Pyrene	ND	0.95	1.00	
Benzo (a) Anthracene	ND	0.95	1.00	
Chrysene	ND	0.95	1.00	
Benzo (b) Fluoranthene	ND	0.95	1.00	
Benzo (k) Fluoranthene	ND	0.95	1.00	
Benzo (a) Pyrene	ND	0.19	1.00	
Dibenz (a,h) Anthracene	ND	0.95	1.00	
Benzo (g,h,i) Perylene	ND	0.95	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decafluorobiphenyl	64	14-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3510C
Method: EPA 8310
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-07-003-2029**	**N/A**	**Aqueous**	**HPLC 5**	**01/08/18**	**01/10/18 17:40**	**180108L02**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	1.0	1.00	
Acenaphthylene	ND	1.0	1.00	
Acenaphthene	ND	1.0	1.00	
Fluorene	ND	1.0	1.00	
Phenanthrene	ND	1.0	1.00	
Anthracene	ND	1.0	1.00	
Fluoranthene	ND	1.0	1.00	
Pyrene	ND	1.0	1.00	
Benzo (a) Anthracene	ND	1.0	1.00	
Chrysene	ND	1.0	1.00	
Benzo (b) Fluoranthene	ND	1.0	1.00	
Benzo (k) Fluoranthene	ND	1.0	1.00	
Benzo (a) Pyrene	ND	0.20	1.00	
Dibenz (a,h) Anthracene	ND	1.0	1.00	
Benzo (g,h,i) Perylene	ND	1.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	1.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decafluorobiphenyl	63	14-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8310
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15'	**18-01-0280-1-AA**	**01/04/18 13:57**	**Solid**	**HPLC 5**	**01/08/18**	**01/12/18 15:40**	**180108L04**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	15	1.00	
Acenaphthylene	ND	30	1.00	
Acenaphthene	ND	15	1.00	
Fluorene	ND	10	1.00	
Phenanthrene	ND	10	1.00	
Anthracene	ND	10	1.00	
Fluoranthene	ND	10	1.00	
Pyrene	ND	10	1.00	
Benzo (a) Anthracene	ND	10	1.00	
Chrysene	ND	10	1.00	
Benzo (b) Fluoranthene	ND	10	1.00	
Benzo (k) Fluoranthene	ND	10	1.00	
Benzo (a) Pyrene	ND	10	1.00	
Dibenz (a,h) Anthracene	ND	10	1.00	
Benzo (g,h,i) Perylene	ND	10	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decafluorobiphenyl	55	8-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8310
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-09-15.5'	**18-01-0280-6-A**	**01/04/18 14:45**	**Solid**	**HPLC 5**	**01/08/18**	**01/12/18 16:13**	**180108L04**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	15	1.00	
Acenaphthylene	ND	30	1.00	
Acenaphthene	ND	15	1.00	
Fluorene	ND	10	1.00	
Phenanthrene	ND	10	1.00	
Anthracene	ND	10	1.00	
Fluoranthene	ND	10	1.00	
Pyrene	ND	10	1.00	
Benzo (a) Anthracene	ND	10	1.00	
Chrysene	ND	10	1.00	
Benzo (b) Fluoranthene	ND	10	1.00	
Benzo (k) Fluoranthene	ND	10	1.00	
Benzo (a) Pyrene	ND	10	1.00	
Dibenz (a,h) Anthracene	ND	10	1.00	
Benzo (g,h,i) Perylene	ND	10	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decafluorobiphenyl	57	8-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8310
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-04-2.5'	**18-01-0280-9-A**	**01/03/18 13:19**	**Solid**	**HPLC 5**	**01/08/18**	**01/12/18 16:45**	**180108L04**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	15	1.00	
Acenaphthylene	ND	30	1.00	
Acenaphthene	ND	15	1.00	
Fluorene	ND	9.9	1.00	
Phenanthrene	ND	9.9	1.00	
Anthracene	ND	9.9	1.00	
Fluoranthene	ND	9.9	1.00	
Pyrene	ND	9.9	1.00	
Benzo (a) Anthracene	ND	9.9	1.00	
Chrysene	ND	9.9	1.00	
Benzo (b) Fluoranthene	ND	9.9	1.00	
Benzo (k) Fluoranthene	ND	9.9	1.00	
Benzo (a) Pyrene	ND	9.9	1.00	
Dibenz (a,h) Anthracene	ND	9.9	1.00	
Benzo (g,h,i) Perylene	ND	9.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decafluorobiphenyl	76	8-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8310
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-01-5.5'	**18-01-0280-12-A**	**01/04/18 08:15**	**Solid**	**HPLC 5**	**01/08/18**	**01/13/18 13:31**	**180108L04**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	15	1.00	
Acenaphthylene	ND	30	1.00	
Acenaphthene	ND	15	1.00	
Fluorene	ND	10	1.00	
Phenanthrene	ND	10	1.00	
Anthracene	ND	10	1.00	
Fluoranthene	ND	10	1.00	
Pyrene	ND	10	1.00	
Benzo (a) Anthracene	ND	10	1.00	
Chrysene	ND	10	1.00	
Benzo (b) Fluoranthene	ND	10	1.00	
Benzo (k) Fluoranthene	ND	10	1.00	
Benzo (a) Pyrene	ND	10	1.00	
Dibenz (a,h) Anthracene	ND	10	1.00	
Benzo (g,h,i) Perylene	ND	10	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decafluorobiphenyl	39	8-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8310
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-02-5.5'	**18-01-0280-15-A**	**01/04/18 10:45**	**Solid**	**HPLC 5**	**01/08/18**	**01/12/18 18:42**	**180108L04**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	15	1.00	
Acenaphthylene	ND	30	1.00	
Acenaphthene	ND	15	1.00	
Fluorene	ND	10	1.00	
Phenanthrene	11	10	1.00	
Anthracene	ND	10	1.00	
Fluoranthene	30	10	1.00	
Pyrene	31	10	1.00	
Benzo (a) Anthracene	12	10	1.00	
Chrysene	17	10	1.00	
Benzo (b) Fluoranthene	16	10	1.00	
Benzo (k) Fluoranthene	ND	10	1.00	
Benzo (a) Pyrene	21	10	1.00	
Dibenz (a,h) Anthracene	ND	10	1.00	
Benzo (g,h,i) Perylene	ND	10	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decafluorobiphenyl	45	8-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8310
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-05-4'	**18-01-0280-17-A**	**01/04/18 13:40**	**Solid**	**HPLC 5**	**01/08/18**	**01/12/18 19:14**	**180108L04**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	15	1.00	
Acenaphthylene	ND	30	1.00	
Acenaphthene	ND	15	1.00	
Fluorene	ND	10	1.00	
Phenanthrene	ND	10	1.00	
Anthracene	ND	10	1.00	
Fluoranthene	ND	10	1.00	
Pyrene	ND	10	1.00	
Benzo (a) Anthracene	ND	10	1.00	
Chrysene	ND	10	1.00	
Benzo (b) Fluoranthene	ND	10	1.00	
Benzo (k) Fluoranthene	ND	10	1.00	
Benzo (a) Pyrene	ND	10	1.00	
Dibenz (a,h) Anthracene	ND	10	1.00	
Benzo (g,h,i) Perylene	ND	10	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decafluorobiphenyl	48	8-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8310
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-06-5.5'	**18-01-0280-21-A**	**01/03/18 09:50**	**Solid**	**HPLC 5**	**01/08/18**	**01/12/18 19:47**	**180108L04**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	15	1.00	
Acenaphthylene	ND	30	1.00	
Acenaphthene	ND	15	1.00	
Fluorene	ND	10	1.00	
Phenanthrene	11	10	1.00	
Anthracene	ND	10	1.00	
Fluoranthene	32	10	1.00	
Pyrene	30	10	1.00	
Benzo (a) Anthracene	12	10	1.00	
Chrysene	16	10	1.00	
Benzo (b) Fluoranthene	12	10	1.00	
Benzo (k) Fluoranthene	10	10	1.00	
Benzo (a) Pyrene	18	10	1.00	
Dibenz (a,h) Anthracene	ND	10	1.00	
Benzo (g,h,i) Perylene	ND	10	1.00	
Indeno (1,2,3-c,d) Pyrene	19	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decafluorobiphenyl	52	8-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8310
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-08-5'	**18-01-0280-23-A**	**01/04/18 15:37**	**Solid**	**HPLC 5**	**01/08/18**	**01/12/18 20:19**	**180108L04**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	15	1.00	
Acenaphthylene	ND	30	1.00	
Acenaphthene	ND	15	1.00	
Fluorene	ND	9.9	1.00	
Phenanthrene	ND	9.9	1.00	
Anthracene	ND	9.9	1.00	
Fluoranthene	ND	9.9	1.00	
Pyrene	ND	9.9	1.00	
Benzo (a) Anthracene	ND	9.9	1.00	
Chrysene	ND	9.9	1.00	
Benzo (b) Fluoranthene	ND	9.9	1.00	
Benzo (k) Fluoranthene	ND	9.9	1.00	
Benzo (a) Pyrene	ND	9.9	1.00	
Dibenz (a,h) Anthracene	ND	9.9	1.00	
Benzo (g,h,i) Perylene	ND	9.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decafluorobiphenyl	58	8-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8310
Units: ug/kg

Project: Solana Torrance

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-10-10'	**18-01-0280-25-A**	**01/03/18 11:25**	**Solid**	**HPLC 5**	**01/08/18**	**01/12/18 20:52**	**180108L04**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	15	1.00	
Acenaphthylene	ND	30	1.00	
Acenaphthene	ND	15	1.00	
Fluorene	ND	10	1.00	
Phenanthrene	ND	10	1.00	
Anthracene	ND	10	1.00	
Fluoranthene	ND	10	1.00	
Pyrene	ND	10	1.00	
Benzo (a) Anthracene	ND	10	1.00	
Chrysene	ND	10	1.00	
Benzo (b) Fluoranthene	ND	10	1.00	
Benzo (k) Fluoranthene	ND	10	1.00	
Benzo (a) Pyrene	ND	10	1.00	
Dibenz (a,h) Anthracene	ND	10	1.00	
Benzo (g,h,i) Perylene	ND	10	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decafluorobiphenyl	58	8-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8310
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15' DUP	**18-01-0280-28-AA**	**01/04/18 13:57**	**Solid**	**HPLC 5**	**01/08/18**	**01/12/18 21:24**	**180108L04**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	15	1.00	
Acenaphthylene	ND	30	1.00	
Acenaphthene	ND	15	1.00	
Fluorene	ND	10	1.00	
Phenanthrene	ND	10	1.00	
Anthracene	ND	10	1.00	
Fluoranthene	ND	10	1.00	
Pyrene	ND	10	1.00	
Benzo (a) Anthracene	ND	10	1.00	
Chrysene	ND	10	1.00	
Benzo (b) Fluoranthene	ND	10	1.00	
Benzo (k) Fluoranthene	ND	10	1.00	
Benzo (a) Pyrene	ND	10	1.00	
Dibenz (a,h) Anthracene	ND	10	1.00	
Benzo (g,h,i) Perylene	ND	10	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decafluorobiphenyl	66	8-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8310
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-07-002-1932**	**N/A**	**Solid**	**HPLC 5**	**01/08/18**	**01/11/18 20:44**	**180108L04**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	15	1.00	
Acenaphthylene	ND	30	1.00	
Acenaphthene	ND	15	1.00	
Fluorene	ND	10	1.00	
Phenanthrene	ND	10	1.00	
Anthracene	ND	10	1.00	
Fluoranthene	ND	10	1.00	
Pyrene	ND	10	1.00	
Benzo (a) Anthracene	ND	10	1.00	
Chrysene	ND	10	1.00	
Benzo (b) Fluoranthene	ND	10	1.00	
Benzo (k) Fluoranthene	ND	10	1.00	
Benzo (a) Pyrene	ND	10	1.00	
Dibenz (a,h) Anthracene	ND	10	1.00	
Benzo (g,h,i) Perylene	ND	10	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decafluorobiphenyl	75	8-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: N/A
Method: EPA 9045C
Units: pH units

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15'	**18-01-0280-1-AA**	**01/04/18 13:57**	**Solid**	**PH 4**	**01/05/18**	**01/05/18 20:00**	**I0105PHD3**

Parameter	Result	RL	DF	Qualifiers
pH	7.84	0.01	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-09-15.5'	**18-01-0280-6-A**	**01/04/18 14:45**	**Solid**	**PH 4**	**01/05/18**	**01/05/18 20:00**	**I0105PHD3**

Parameter	Result	RL	DF	Qualifiers
pH	7.94	0.01	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-04-2.5'	**18-01-0280-9-A**	**01/03/18 13:19**	**Solid**	**PH 4**	**01/05/18**	**01/05/18 20:00**	**I0105PHD3**

Parameter	Result	RL	DF	Qualifiers
pH	8.79	0.01	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-01-5.5'	**18-01-0280-12-A**	**01/04/18 08:15**	**Solid**	**PH 4**	**01/05/18**	**01/05/18 20:00**	**I0105PHD3**

Parameter	Result	RL	DF	Qualifiers
pH	7.65	0.01	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-02-5.5'	**18-01-0280-15-A**	**01/04/18 10:45**	**Solid**	**PH 4**	**01/05/18**	**01/05/18 20:00**	**I0105PHD3**

Parameter	Result	RL	DF	Qualifiers
pH	8.04	0.01	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-05-4'	**18-01-0280-17-A**	**01/04/18 13:40**	**Solid**	**PH 4**	**01/05/18**	**01/05/18 20:00**	**I0105PHD3**

Parameter	Result	RL	DF	Qualifiers
pH	7.67	0.01	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-06-5.5'	**18-01-0280-21-A**	**01/03/18 09:50**	**Solid**	**PH 4**	**01/05/18**	**01/05/18 20:00**	**I0105PHD3**

Parameter	Result	RL	DF	Qualifiers
pH	7.78	0.01	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-08-5'	**18-01-0280-23-A**	**01/04/18 15:37**	**Solid**	**PH 4**	**01/05/18**	**01/05/18 20:00**	**I0105PHD3**

Parameter	Result	RL	DF	Qualifiers
pH	10.72	0.01	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: N/A
Method: EPA 9045C
Units: pH units

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-10-10'	**18-01-0280-25-A**	**01/03/18 11:25**	**Solid**	**PH 4**	**01/05/18**	**01/05/18 20:00**	**I0105PHD3**

Parameter	Result	RL	DF	Qualifiers
pH	8.83	0.01	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15' DUP	**18-01-0280-28-A**	**01/04/18 13:57**	**Solid**	**PH 4**	**01/05/18**	**01/05/18 20:00**	**I0105PHD3**

Parameter	Result	RL	DF	Qualifiers
pH	7.93	0.01	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: N/A
Method: SM 4500 H+ B
Units: pH units

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**18-01-0280-27-G**	**01/03/18 10:30**	**Aqueous**	**PH 1**	**N/A**	**01/05/18 20:00**	**I0105PHD1**

Parameter	Result	RL	DF	Qualifiers
pH	8.60	0.01	1.00	BV,BU

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**18-01-0280-27-F**	**01/03/18 10:30**	**Aqueous**	**GC 47**	**01/08/18**	**01/10/18 00:23**	**180108B03A**

Parameter	Result	RL	DF	Qualifiers
C6	ND	47	1.00	
C7	ND	47	1.00	
C8	ND	47	1.00	
C9-C10	ND	47	1.00	
C11-C12	ND	47	1.00	
C13-C14	ND	47	1.00	
C15-C16	ND	47	1.00	
C17-C18	ND	47	1.00	
C19-C20	ND	47	1.00	
C21-C22	ND	47	1.00	
C23-C24	ND	47	1.00	
C25-C28	ND	47	1.00	
C29-C32	ND	47	1.00	
C33-C36	ND	47	1.00	
C37-C40	ND	47	1.00	
C41-C44	ND	47	1.00	
C6-C44 Total	ND	47	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	100	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-472-714**	**N/A**	**Aqueous**	**GC 47**	**01/08/18**	**01/09/18 18:06**	**180108B03A**

Parameter	Result	RL	DF	Qualifiers
C6	ND	50	1.00	
C7	ND	50	1.00	
C8	ND	50	1.00	
C9-C10	ND	50	1.00	
C11-C12	ND	50	1.00	
C13-C14	ND	50	1.00	
C15-C16	ND	50	1.00	
C17-C18	ND	50	1.00	
C19-C20	ND	50	1.00	
C21-C22	ND	50	1.00	
C23-C24	ND	50	1.00	
C25-C28	ND	50	1.00	
C29-C32	ND	50	1.00	
C33-C36	ND	50	1.00	
C37-C40	ND	50	1.00	
C41-C44	ND	50	1.00	
C6-C44 Total	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	95	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15'	**18-01-0280-1-AA**	**01/04/18 13:57**	**Solid**	**GC 48**	**01/12/18**	**01/15/18 14:48**	**180112B04A**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	ND	4.9	1.00	
C29-C32	ND	4.9	1.00	
C33-C36	ND	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	ND	4.9	1.00	
C6-C44 Total	ND	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	105	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-19'	**18-01-0280-2-A**	**01/04/18 14:18**	**Solid**	**GC 46**	**01/09/18**	**01/09/18 20:19**	**180109B07A**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	14	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	89	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-03-11'	**18-01-0280-3-A**	**01/04/18 16:05**	**Solid**	**GC 48**	**01/10/18**	**01/10/18 22:17**	**180110B07**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	ND	4.9	1.00	
C29-C32	ND	4.9	1.00	
C33-C36	ND	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	ND	4.9	1.00	
C6-C44 Total	ND	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants		Date Received:	01/05/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0280
Irvine, CA 92602-1365		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Solana Torrance			Page 4 of 25

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-03-5'	**18-01-0280-4-A**	**01/04/18 15:58**	**Solid**	**GC 48**	**01/10/18**	**01/10/18 22:38**	**180110B07**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	25	5.00	
C7	ND	25	5.00	
C8	ND	25	5.00	
C9-C10	ND	25	5.00	
C11-C12	ND	25	5.00	
C13-C14	ND	25	5.00	
C15-C16	ND	25	5.00	
C17-C18	ND	25	5.00	
C19-C20	ND	25	5.00	
C21-C22	ND	25	5.00	
C23-C24	ND	25	5.00	
C25-C28	34	25	5.00	
C29-C32	57	25	5.00	
C33-C36	29	25	5.00	
C37-C40	ND	25	5.00	
C41-C44	ND	25	5.00	
C6-C44 Total	160	25	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	95	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-09-15.5'	**18-01-0280-6-A**	**01/04/18 14:45**	**Solid**	**GC 48**	**01/10/18**	**01/10/18 22:59**	**180110B07**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	ND	4.9	1.00	
C29-C32	ND	4.9	1.00	
C33-C36	ND	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	ND	4.9	1.00	
C6-C44 Total	10	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	102	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-09-25'	**18-01-0280-7-A**	**01/04/18 14:59**	**Solid**	**GC 48**	**01/10/18**	**01/10/18 23:20**	**180110B07**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	12	5.0	1.00	
C29-C32	27	5.0	1.00	
C33-C36	17	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	67	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	104	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-04-2.5'	**18-01-0280-9-A**	**01/03/18 13:19**	**Solid**	**GC 48**	**01/10/18**	**01/10/18 23:41**	**180110B07**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	104	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-04-10'	**18-01-0280-10-A**	**01/03/18 13:25**	**Solid**	**GC 48**	**01/10/18**	**01/11/18 00:01**	**180110B07**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	108	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-01-5.5'	**18-01-0280-12-A**	**01/04/18 08:15**	**Solid**	**GC 48**	**01/10/18**	**01/11/18 00:23**	**180110B07**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	10	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-01-15'	**18-01-0280-13-A**	**01/04/18 08:21**	**Solid**	**GC 48**	**01/10/18**	**01/11/18 00:43**	**180110B07**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	ND	4.9	1.00	
C29-C32	ND	4.9	1.00	
C33-C36	ND	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	ND	4.9	1.00	
C6-C44 Total	11	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	105	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-02-5.5'	**18-01-0280-15-A**	**01/04/18 10:45**	**Solid**	**GC 48**	**01/10/18**	**01/11/18 03:09**	**180110B07**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	5.0	4.9	1.00	
C25-C28	16	4.9	1.00	
C29-C32	26	4.9	1.00	
C33-C36	14	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	ND	4.9	1.00	
C6-C44 Total	72	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	101	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-02-25'	**18-01-0280-16-A**	**01/04/18 11:00**	**Solid**	**GC 48**	**01/10/18**	**01/11/18 01:04**	**180110B07**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	101	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-05-4'	**18-01-0280-17-A**	**01/04/18 13:40**	**Solid**	**GC 48**	**01/10/18**	**01/11/18 01:25**	**180110B07**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	13	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-05-10'	**18-01-0280-19-A**	**01/04/18 13:55**	**Solid**	**GC 48**	**01/10/18**	**01/11/18 03:30**	**180110B07**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	25	5.00	
C7	ND	25	5.00	
C8	ND	25	5.00	
C9-C10	ND	25	5.00	
C11-C12	ND	25	5.00	
C13-C14	ND	25	5.00	
C15-C16	ND	25	5.00	
C17-C18	ND	25	5.00	
C19-C20	ND	25	5.00	
C21-C22	ND	25	5.00	
C23-C24	ND	25	5.00	
C25-C28	47	25	5.00	
C29-C32	100	25	5.00	
C33-C36	65	25	5.00	
C37-C40	ND	25	5.00	
C41-C44	ND	25	5.00	
C6-C44 Total	260	25	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	98	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-06-5.5'	**18-01-0280-21-A**	**01/03/18 09:50**	**Solid**	**GC 48**	**01/10/18**	**01/11/18 01:45**	**180110B07**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	11	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	104	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-06-10'	**18-01-0280-22-A**	**01/03/18 10:00**	**Solid**	**GC 48**	**01/10/18**	**01/11/18 02:07**	**180110B07**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	108	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-08-5'	**18-01-0280-23-AA**	**01/04/18 15:37**	**Solid**	**GC 48**	**01/12/18**	**01/15/18 15:09**	**180112B04A**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	ND	4.9	1.00	
C29-C32	ND	4.9	1.00	
C33-C36	ND	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	ND	4.9	1.00	
C6-C44 Total	ND	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	107	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-08-15'	**18-01-0280-24-A**	**01/04/18 15:45**	**Solid**	**GC 48**	**01/10/18**	**01/11/18 02:27**	**180110B07**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	90	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-10-10'	**18-01-0280-25-AA**	**01/03/18 11:25**	**Solid**	**GC 48**	**01/12/18**	**01/15/18 15:29**	**180112B04A**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	100	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-10-15'	**18-01-0280-26-A**	**01/03/18 11:32**	**Solid**	**GC 48**	**01/10/18**	**01/11/18 02:48**	**180110B07**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	108	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15' DUP	**18-01-0280-28-AA**	**01/04/18 13:57**	**Solid**	**GC 48**	**01/12/18**	**01/15/18 15:51**	**180112B04A**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	6.4	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-19' DUP	**18-01-0280-29-A**	**01/04/18 14:18**	**Solid**	**GC 46**	**01/09/18**	**01/09/18 21:02**	**180109B07A**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	13	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	90	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-490-2954**	**N/A**	**Solid**	**GC 46**	**01/09/18**	**01/09/18 17:08**	**180109B07A**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	80	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-490-2960**	**N/A**	**Solid**	**GC 48**	**01/10/18**	**01/10/18 20:54**	**180110B07**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-490-2961**	**N/A**	**Solid**	**GC 48**	**01/12/18**	**01/15/18 11:41**	**180112B04A**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	104	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15'	**18-01-0280-1-AA**	**01/04/18 13:57**	**Solid**	**ICP 8300**	**01/10/18**	**01/17/18 17:01**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Arsenic	4.28	0.746	0.995	
Barium	518	0.498	0.995	
Beryllium	ND	0.249	0.995	
Cadmium	0.982	0.498	0.995	
Chromium	25.4	0.249	0.995	
Cobalt	3.91	0.249	0.995	
Copper	12.6	0.498	0.995	
Lead	3.31	0.498	0.995	
Molybdenum	1.73	0.249	0.995	
Nickel	19.8	0.249	0.995	
Selenium	ND	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	39.0	0.249	0.995	
Zinc	35.5	0.995	0.995	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-19'	**18-01-0280-2-AA**	**01/04/18 14:18**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:05**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Arsenic	4.37	0.732	0.976	
Barium	452	0.488	0.976	
Beryllium	ND	0.244	0.976	
Cadmium	1.32	0.488	0.976	
Chromium	23.9	0.244	0.976	
Cobalt	4.07	0.244	0.976	
Copper	16.1	0.488	0.976	
Lead	2.81	0.488	0.976	
Molybdenum	2.15	0.244	0.976	
Nickel	23.3	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	43.4	0.244	0.976	
Zinc	39.3	0.976	0.976	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-03-11'	**18-01-0280-3-A**	**01/04/18 16:05**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:06**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	0.798	0.732	0.976	
Arsenic	4.64	0.732	0.976	
Barium	538	0.488	0.976	
Beryllium	ND	0.244	0.976	
Cadmium	0.870	0.488	0.976	
Chromium	24.6	0.244	0.976	
Cobalt	3.83	0.244	0.976	
Copper	15.0	0.488	0.976	
Lead	2.13	0.488	0.976	
Molybdenum	2.30	0.244	0.976	
Nickel	19.5	0.244	0.976	
Selenium	1.00	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	34.4	0.244	0.976	
Zinc	39.8	0.976	0.976	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-03-5'	**18-01-0280-4-A**	**01/04/18 15:58**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:07**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	4.44	0.743	0.990	
Barium	126	0.495	0.990	
Beryllium	0.374	0.248	0.990	
Cadmium	0.504	0.495	0.990	
Chromium	22.3	0.248	0.990	
Cobalt	7.61	0.248	0.990	
Copper	17.8	0.495	0.990	
Lead	17.1	0.495	0.990	
Molybdenum	ND	0.248	0.990	
Nickel	16.0	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	35.9	0.248	0.990	
Zinc	80.3	0.990	0.990	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-09-15.5'	**18-01-0280-6-A**	**01/04/18 14:45**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:09**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	11.2	0.758	1.01	
Barium	351	0.505	1.01	
Beryllium	0.289	0.253	1.01	
Cadmium	1.87	0.505	1.01	
Chromium	44.5	0.253	1.01	
Cobalt	5.77	0.253	1.01	
Copper	37.5	0.505	1.01	
Lead	2.81	0.505	1.01	
Molybdenum	7.11	0.253	1.01	
Nickel	42.5	0.253	1.01	
Selenium	3.92	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	51.4	0.253	1.01	
Zinc	73.4	1.01	1.01	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-09-25'	**18-01-0280-7-A**	**01/04/18 14:59**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:10**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	5.95	0.758	1.01	
Barium	914	0.505	1.01	
Beryllium	0.284	0.253	1.01	
Cadmium	1.57	0.505	1.01	
Chromium	51.0	0.253	1.01	
Cobalt	7.04	0.253	1.01	
Copper	24.2	0.505	1.01	
Lead	5.43	0.505	1.01	
Molybdenum	4.35	0.253	1.01	
Nickel	36.4	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	57.1	0.253	1.01	
Zinc	68.7	1.01	1.01	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-04-2.5'	**18-01-0280-9-A**	**01/03/18 13:19**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:13**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.721	0.962	
Arsenic	3.33	0.721	0.962	
Barium	263	0.481	0.962	
Beryllium	ND	0.240	0.962	
Cadmium	ND	0.481	0.962	
Chromium	7.38	0.240	0.962	
Cobalt	1.52	0.240	0.962	
Copper	3.77	0.481	0.962	
Lead	0.923	0.481	0.962	
Molybdenum	0.579	0.240	0.962	
Nickel	5.90	0.240	0.962	
Selenium	ND	0.721	0.962	
Silver	ND	0.240	0.962	
Thallium	ND	0.721	0.962	
Vanadium	15.5	0.240	0.962	
Zinc	12.5	0.962	0.962	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-04-10'	**18-01-0280-10-A**	**01/03/18 13:25**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:15**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Arsenic	4.22	0.732	0.976	
Barium	289	0.488	0.976	
Beryllium	ND	0.244	0.976	
Cadmium	ND	0.488	0.976	
Chromium	5.58	0.244	0.976	
Cobalt	1.27	0.244	0.976	
Copper	3.36	0.488	0.976	
Lead	0.895	0.488	0.976	
Molybdenum	2.68	0.244	0.976	
Nickel	5.19	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	13.1	0.244	0.976	
Zinc	12.4	0.976	0.976	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-01-5.5'	**18-01-0280-12-A**	**01/04/18 08:15**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:16**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Arsenic	8.10	0.746	0.995	
Barium	544	0.498	0.995	
Beryllium	ND	0.249	0.995	
Cadmium	1.20	0.498	0.995	
Chromium	31.7	0.249	0.995	
Cobalt	4.53	0.249	0.995	
Copper	20.9	0.498	0.995	
Lead	2.02	0.498	0.995	
Molybdenum	4.68	0.249	0.995	
Nickel	26.7	0.249	0.995	
Selenium	1.85	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	42.4	0.249	0.995	
Zinc	49.1	0.995	0.995	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-01-15'	**18-01-0280-13-A**	**01/04/18 08:21**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:17**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	0.991	0.728	0.971	
Arsenic	5.13	0.728	0.971	
Barium	1420	0.485	0.971	
Beryllium	ND	0.243	0.971	
Cadmium	1.56	0.485	0.971	
Chromium	29.6	0.243	0.971	
Cobalt	1.59	0.243	0.971	
Copper	15.2	0.485	0.971	
Lead	1.25	0.485	0.971	
Molybdenum	2.79	0.243	0.971	
Nickel	24.2	0.243	0.971	
Selenium	ND	0.728	0.971	
Silver	ND	0.243	0.971	
Thallium	ND	0.728	0.971	
Vanadium	62.7	0.243	0.971	
Zinc	39.0	0.971	0.971	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-02-5.5'	**18-01-0280-15-A**	**01/04/18 10:45**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:18**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.781	1.04	
Arsenic	4.44	0.781	1.04	
Barium	205	0.521	1.04	
Beryllium	0.403	0.260	1.04	
Cadmium	0.746	0.521	1.04	
Chromium	47.0	0.260	1.04	
Cobalt	9.66	0.260	1.04	
Copper	24.2	0.521	1.04	
Lead	32.7	0.521	1.04	
Molybdenum	2.05	0.260	1.04	
Nickel	19.5	0.260	1.04	
Selenium	ND	0.781	1.04	
Silver	ND	0.260	1.04	
Thallium	ND	0.781	1.04	
Vanadium	42.1	0.260	1.04	
Zinc	112	1.04	1.04	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-02-25'	**18-01-0280-16-A**	**01/04/18 11:00**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:01**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	1.37	0.739	0.985	
Arsenic	28.3	0.739	0.985	
Barium	1570	0.493	0.985	
Beryllium	0.774	0.246	0.985	
Cadmium	1.57	0.493	0.985	
Chromium	50.1	0.246	0.985	
Cobalt	13.2	0.246	0.985	
Copper	29.8	0.493	0.985	
Lead	8.00	0.493	0.985	
Molybdenum	1.23	0.246	0.985	
Nickel	37.8	0.246	0.985	
Selenium	0.909	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	101	0.246	0.985	
Zinc	81.5	0.985	0.985	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-05-4'	**18-01-0280-17-A**	**01/04/18 13:40**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:21**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.761	1.02	
Arsenic	4.64	0.761	1.02	
Barium	193	0.508	1.02	
Beryllium	ND	0.254	1.02	
Cadmium	1.78	0.508	1.02	
Chromium	29.8	0.254	1.02	
Cobalt	3.28	0.254	1.02	
Copper	19.5	0.508	1.02	
Lead	2.85	0.508	1.02	
Molybdenum	2.67	0.254	1.02	
Nickel	28.5	0.254	1.02	
Selenium	1.34	0.761	1.02	
Silver	ND	0.254	1.02	
Thallium	ND	0.761	1.02	
Vanadium	62.2	0.254	1.02	
Zinc	48.1	1.02	1.02	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-05-10'	**18-01-0280-19-A**	**01/04/18 13:55**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:22**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.718	0.957	
Arsenic	3.66	0.718	0.957	
Barium	311	0.478	0.957	
Beryllium	ND	0.239	0.957	
Cadmium	2.61	0.478	0.957	
Chromium	33.1	0.239	0.957	
Cobalt	3.82	0.239	0.957	
Copper	23.1	0.478	0.957	
Lead	4.67	0.478	0.957	
Molybdenum	2.92	0.239	0.957	
Nickel	35.2	0.239	0.957	
Selenium	ND	0.718	0.957	
Silver	ND	0.239	0.957	
Thallium	ND	0.718	0.957	
Vanadium	66.9	0.239	0.957	
Zinc	54.7	0.957	0.957	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-06-5.5'	**18-01-0280-21-A**	**01/03/18 09:50**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:23**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.761	1.02	
Arsenic	3.77	0.761	1.02	
Barium	1020	0.508	1.02	
Beryllium	0.411	0.254	1.02	
Cadmium	1.80	0.508	1.02	
Chromium	37.8	0.254	1.02	
Cobalt	13.9	0.254	1.02	
Copper	26.6	0.508	1.02	
Lead	5.08	0.508	1.02	
Molybdenum	0.709	0.254	1.02	
Nickel	44.4	0.254	1.02	
Selenium	ND	0.761	1.02	
Silver	ND	0.254	1.02	
Thallium	ND	0.761	1.02	
Vanadium	56.3	0.254	1.02	
Zinc	50.2	1.02	1.02	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
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Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-06-10'	**18-01-0280-22-A**	**01/03/18 10:00**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:24**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Arsenic	3.60	0.746	0.995	
Barium	386	0.498	0.995	
Beryllium	ND	0.249	0.995	
Cadmium	ND	0.498	0.995	
Chromium	11.8	0.249	0.995	
Cobalt	2.43	0.249	0.995	
Copper	5.61	0.498	0.995	
Lead	1.43	0.498	0.995	
Molybdenum	0.800	0.249	0.995	
Nickel	8.75	0.249	0.995	
Selenium	ND	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	21.6	0.249	0.995	
Zinc	20.3	0.995	0.995	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-08-5'	**18-01-0280-23-A**	**01/04/18 15:37**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:28**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Arsenic	1.14	0.739	0.985	
Barium	84.3	0.493	0.985	
Beryllium	ND	0.246	0.985	
Cadmium	ND	0.493	0.985	
Chromium	8.16	0.246	0.985	
Cobalt	1.34	0.246	0.985	
Copper	3.12	0.493	0.985	
Lead	0.982	0.493	0.985	
Molybdenum	ND	0.246	0.985	
Nickel	4.25	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	14.2	0.246	0.985	
Zinc	12.9	0.985	0.985	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-08-15'	**18-01-0280-24-A**	**01/04/18 15:45**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:29**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	2.84	0.758	1.01	
Barium	44.9	0.505	1.01	
Beryllium	ND	0.253	1.01	
Cadmium	ND	0.505	1.01	
Chromium	10.7	0.253	1.01	
Cobalt	1.28	0.253	1.01	
Copper	3.63	0.505	1.01	
Lead	0.921	0.505	1.01	
Molybdenum	1.23	0.253	1.01	
Nickel	4.31	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	10.7	0.253	1.01	
Zinc	13.0	1.01	1.01	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-10-10'	**18-01-0280-25-A**	**01/03/18 11:25**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:30**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	0.990	0.735	0.980	
Arsenic	3.06	0.735	0.980	
Barium	138	0.490	0.980	
Beryllium	ND	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	9.59	0.245	0.980	
Cobalt	2.39	0.245	0.980	
Copper	3.90	0.490	0.980	
Lead	1.02	0.490	0.980	
Molybdenum	0.274	0.245	0.980	
Nickel	5.68	0.245	0.980	
Selenium	ND	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	16.1	0.245	0.980	
Zinc	14.5	0.980	0.980	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-10-15'	**18-01-0280-26-A**	**01/03/18 11:32**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:31**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.728	0.971	
Arsenic	1.20	0.728	0.971	
Barium	134	0.485	0.971	
Beryllium	ND	0.243	0.971	
Cadmium	ND	0.485	0.971	
Chromium	6.28	0.243	0.971	
Cobalt	1.48	0.243	0.971	
Copper	4.00	0.485	0.971	
Lead	0.688	0.485	0.971	
Molybdenum	ND	0.243	0.971	
Nickel	3.82	0.243	0.971	
Selenium	ND	0.728	0.971	
Silver	ND	0.243	0.971	
Thallium	ND	0.728	0.971	
Vanadium	14.2	0.243	0.971	
Zinc	11.5	0.971	0.971	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15' DUP	**18-01-0280-28-AA**	**01/04/18 13:57**	**Solid**	**ICP 8300**	**01/10/18**	**01/17/18 17:03**	**180110L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Arsenic	4.62	0.746	0.995	
Barium	527	0.498	0.995	
Beryllium	ND	0.249	0.995	
Cadmium	1.00	0.498	0.995	
Chromium	25.5	0.249	0.995	
Cobalt	3.93	0.249	0.995	
Copper	12.7	0.498	0.995	
Lead	3.38	0.498	0.995	
Molybdenum	1.72	0.249	0.995	
Nickel	20.0	0.249	0.995	
Selenium	ND	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	39.3	0.249	0.995	
Zinc	35.9	0.995	0.995	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-19' DUP	**18-01-0280-29-AA**	**01/04/18 14:18**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:35**	**180110L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.721	0.962	
Arsenic	4.85	0.721	0.962	
Barium	458	0.481	0.962	
Beryllium	ND	0.240	0.962	
Cadmium	1.03	0.481	0.962	
Chromium	24.4	0.240	0.962	
Cobalt	3.34	0.240	0.962	
Copper	12.9	0.481	0.962	
Lead	2.45	0.481	0.962	
Molybdenum	1.88	0.240	0.962	
Nickel	19.5	0.240	0.962	
Selenium	ND	0.721	0.962	
Silver	ND	0.240	0.962	
Thallium	ND	0.721	0.962	
Vanadium	38.8	0.240	0.962	
Zinc	35.8	0.962	0.962	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-25788**	**N/A**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 14:56**	**180110L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.728	0.971	
Arsenic	ND	0.728	0.971	
Barium	ND	0.485	0.971	
Beryllium	ND	0.243	0.971	
Cadmium	ND	0.485	0.971	
Chromium	ND	0.243	0.971	
Cobalt	ND	0.243	0.971	
Copper	ND	0.485	0.971	
Lead	ND	0.485	0.971	
Molybdenum	ND	0.243	0.971	
Nickel	ND	0.243	0.971	
Selenium	ND	0.728	0.971	
Silver	ND	0.243	0.971	
Thallium	ND	0.728	0.971	
Vanadium	ND	0.243	0.971	
Zinc	ND	0.971	0.971	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-25785**	**N/A**	**Solid**	**ICP 8300**	**01/10/18**	**01/12/18 20:53**	**180110L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Arsenic	ND	0.732	0.976	
Barium	ND	0.488	0.976	
Beryllium	ND	0.244	0.976	
Cadmium	ND	0.488	0.976	
Chromium	ND	0.244	0.976	
Cobalt	ND	0.244	0.976	
Copper	ND	0.488	0.976	
Lead	ND	0.488	0.976	
Molybdenum	ND	0.244	0.976	
Nickel	ND	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	ND	0.244	0.976	
Zinc	ND	0.976	0.976	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3010A Total
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**18-01-0280-27-G**	**01/03/18 10:30**	**Aqueous**	**ICP 8300**	**01/15/18**	**01/16/18 17:54**	**180115LA3**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.0150	1.00	
Arsenic	ND	0.0100	1.00	
Barium	ND	0.0100	1.00	
Beryllium	ND	0.0100	1.00	
Cadmium	ND	0.0100	1.00	
Chromium	ND	0.0100	1.00	
Cobalt	ND	0.0100	1.00	
Copper	ND	0.0100	1.00	
Lead	ND	0.0100	1.00	
Molybdenum	ND	0.0100	1.00	
Nickel	ND	0.0100	1.00	
Selenium	ND	0.0150	1.00	
Silver	ND	0.00500	1.00	
Thallium	ND	0.0150	1.00	
Vanadium	ND	0.0100	1.00	
Zinc	0.0107	0.0100	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
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Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3010A Total
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-003-16747**	**N/A**	**Aqueous**	**ICP 8300**	**01/15/18**	**01/15/18 18:10**	**180115LA3**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.0150	1.00	
Arsenic	ND	0.0100	1.00	
Barium	ND	0.0100	1.00	
Beryllium	ND	0.0100	1.00	
Cadmium	ND	0.0100	1.00	
Chromium	ND	0.0100	1.00	
Cobalt	ND	0.0100	1.00	
Copper	ND	0.0100	1.00	
Lead	ND	0.0100	1.00	
Molybdenum	ND	0.0100	1.00	
Nickel	ND	0.0100	1.00	
Selenium	ND	0.0150	1.00	
Silver	ND	0.00500	1.00	
Thallium	ND	0.0150	1.00	
Vanadium	ND	0.0100	1.00	
Zinc	ND	0.0100	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 7470A Total
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**18-01-0280-27-G**	**01/03/18 10:30**	**Aqueous**	**Mercury 07**	**01/13/18**	**01/16/18 17:27**	**180112LA1**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.000500	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-04-008-8443**	**N/A**	**Aqueous**	**Mercury 07**	**01/12/18**	**01/15/18 13:45**	**180112LA1**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.000500	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15'	**18-01-0280-1-AA**	**01/04/18 13:57**	**Solid**	**Mercury 07**	**01/09/18**	**01/09/18 17:44**	**180109L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-19'	**18-01-0280-2-AA**	**01/04/18 14:18**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 15:58**	**180111L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-03-11'	**18-01-0280-3-A**	**01/04/18 16:05**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 16:01**	**180111L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-03-5'	**18-01-0280-4-A**	**01/04/18 15:58**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 16:03**	**180111L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-09-15.5'	**18-01-0280-6-A**	**01/04/18 14:45**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 16:05**	**180111L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-09-25'	**18-01-0280-7-A**	**01/04/18 14:59**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 16:07**	**180111L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-04-2.5'	**18-01-0280-9-A**	**01/03/18 13:19**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 16:14**	**180111L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-04-10'	**18-01-0280-10-A**	**01/03/18 13:25**	**Solid**	**Mercury 07**	**01/09/18**	**01/09/18 17:50**	**180109L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-01-5.5'	**18-01-0280-12-A**	**01/04/18 08:15**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 16:19**	**180111L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-01-15'	**18-01-0280-13-A**	**01/04/18 08:21**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 16:21**	**180111L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-02-5.5'	**18-01-0280-15-A**	**01/04/18 10:45**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 16:24**	**180111L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-02-25'	**18-01-0280-16-A**	**01/04/18 11:00**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 15:51**	**180111L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.168	0.0877	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-05-4'	**18-01-0280-17-A**	**01/04/18 13:40**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 16:26**	**180111L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-05-10'	**18-01-0280-19-A**	**01/04/18 13:55**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 16:28**	**180111L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-06-5.5'	**18-01-0280-21-A**	**01/03/18 09:50**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 16:31**	**180111L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-06-10'	**18-01-0280-22-A**	**01/03/18 10:00**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 16:33**	**180111L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-08-5'	**18-01-0280-23-A**	**01/04/18 15:37**	**Solid**	**Mercury 07**	**01/11/18**	**01/12/18 12:15**	**180111L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-08-15'	**18-01-0280-24-A**	**01/04/18 15:45**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 16:35**	**180111L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-10-10'	**18-01-0280-25-A**	**01/03/18 11:25**	**Solid**	**Mercury 07**	**01/09/18**	**01/09/18 17:53**	**180109L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-10-15'	**18-01-0280-26-A**	**01/03/18 11:32**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 16:42**	**180111L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15' DUP	**18-01-0280-28-AA**	**01/04/18 13:57**	**Solid**	**Mercury 07**	**01/09/18**	**01/09/18 17:55**	**180109L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-19' DUP	**18-01-0280-29-AA**	**01/04/18 14:18**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 16:44**	**180111L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-3575**	**N/A**	**Solid**	**Mercury 07**	**01/09/18**	**01/09/18 17:23**	**180109L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-3580**	**N/A**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 15:47**	**180111L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15'	**18-01-0280-1-A**	**01/04/18 13:57**	**Solid**	**GC 44**	**01/08/18**	**01/11/18 12:56**	**180108L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	24-168	
2,4,5,6-Tetrachloro-m-Xylene	78	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-09-15.5'	**18-01-0280-6-A**	**01/04/18 14:45**	**Solid**	**GC 44**	**01/08/18**	**01/11/18 13:10**	**180108L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	24-168	
2,4,5,6-Tetrachloro-m-Xylene	81	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-04-2.5'	**18-01-0280-9-A**	**01/03/18 13:19**	**Solid**	**GC 44**	**01/08/18**	**01/11/18 13:24**	**180108L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	94	24-168	
2,4,5,6-Tetrachloro-m-Xylene	87	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-01-5.5'	**18-01-0280-12-A**	**01/04/18 08:15**	**Solid**	**GC 44**	**01/08/18**	**01/11/18 13:38**	**180108L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	24-168	
2,4,5,6-Tetrachloro-m-Xylene	81	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-02-5.5'	**18-01-0280-15-A**	**01/04/18 10:45**	**Solid**	**GC 44**	**01/08/18**	**01/11/18 13:53**	**180108L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	11	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	88	24-168	
2,4,5,6-Tetrachloro-m-Xylene	78	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-02-5.5'	**18-01-0280-15-A**	**01/04/18 10:45**	**Solid**	**GC 44**	**01/08/18**	**01/11/18 16:22**	**180108L05**

Parameter	Result	RL	DF	Qualifiers
4,4'-DDT	44	25	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	88	24-168	
2,4,5,6-Tetrachloro-m-Xylene	77	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-05-4'	**18-01-0280-17-A**	**01/04/18 13:40**	**Solid**	**GC 44**	**01/08/18**	**01/11/18 14:07**	**180108L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	79	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-06-5.5'	**18-01-0280-21-A**	**01/03/18 09:50**	**Solid**	**GC 44**	**01/08/18**	**01/11/18 14:21**	**180108L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	8.0	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	24-168	
2,4,5,6-Tetrachloro-m-Xylene	79	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-08-5'	**18-01-0280-23-A**	**01/04/18 15:37**	**Solid**	**GC 44**	**01/08/18**	**01/10/18 19:09**	**180108L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	82	24-168	
2,4,5,6-Tetrachloro-m-Xylene	70	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-10-10'	**18-01-0280-25-A**	**01/03/18 11:25**	**Solid**	**GC 44**	**01/08/18**	**01/11/18 14:35**	**180108L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	24-168	
2,4,5,6-Tetrachloro-m-Xylene	84	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15' DUP	**18-01-0280-28-A**	**01/04/18 13:57**	**Solid**	**GC 44**	**01/08/18**	**01/11/18 14:49**	**180108L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	24-168	
2,4,5,6-Tetrachloro-m-Xylene	83	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-2868**	**N/A**	**Solid**	**GC 44**	**01/08/18**	**01/10/18 17:44**	**180108L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	24-168	
2,4,5,6-Tetrachloro-m-Xylene	94	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**18-01-0280-27-C**	**01/03/18 10:30**	**Aqueous**	**GC 44**	**01/09/18**	**01/12/18 15:41**	**180109L05B**

Parameter	Result	RL	DF	Qualifiers
Alpha-BHC	ND	0.096	1.00	
Gamma-BHC	ND	0.096	1.00	
Beta-BHC	ND	0.096	1.00	
Heptachlor	ND	0.096	1.00	
Delta-BHC	ND	0.096	1.00	
Aldrin	ND	0.096	1.00	
Heptachlor Epoxide	ND	0.096	1.00	
Endosulfan I	ND	0.096	1.00	
Dieldrin	ND	0.096	1.00	
4,4'-DDE	ND	0.096	1.00	
Endrin	ND	0.096	1.00	
Endrin Aldehyde	ND	0.096	1.00	
4,4'-DDD	ND	0.096	1.00	
Endosulfan II	ND	0.096	1.00	
4,4'-DDT	ND	0.096	1.00	
Endosulfan Sulfate	ND	0.096	1.00	
Methoxychlor	ND	0.096	1.00	
Chlordane	ND	0.96	1.00	
Toxaphene	ND	1.9	1.00	
Endrin Ketone	ND	0.096	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	77	50-135	
2,4,5,6-Tetrachloro-m-Xylene	85	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-529-1001**	**N/A**	**Aqueous**	**GC 44**	**01/09/18**	**01/12/18 09:01**	**180109L05B**

Parameter	Result	RL	DF	Qualifiers
Alpha-BHC	ND	0.10	1.00	
Gamma-BHC	ND	0.10	1.00	
Beta-BHC	ND	0.10	1.00	
Heptachlor	ND	0.10	1.00	
Delta-BHC	ND	0.10	1.00	
Aldrin	ND	0.10	1.00	
Heptachlor Epoxide	ND	0.10	1.00	
Endosulfan I	ND	0.10	1.00	
Dieldrin	ND	0.10	1.00	
4,4'-DDE	ND	0.10	1.00	
Endrin	ND	0.10	1.00	
Endrin Aldehyde	ND	0.10	1.00	
4,4'-DDD	ND	0.10	1.00	
Endosulfan II	ND	0.10	1.00	
4,4'-DDT	ND	0.10	1.00	
Endosulfan Sulfate	ND	0.10	1.00	
Methoxychlor	ND	0.10	1.00	
Chlordane	ND	1.0	1.00	
Toxaphene	ND	2.0	1.00	
Endrin Ketone	ND	0.10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	79	50-135	
2,4,5,6-Tetrachloro-m-Xylene	63	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15'	**18-01-0280-1-AA**	**01/04/18 13:57**	**Solid**	**GC 58**	**01/08/18**	**01/09/18 19:35**	**180108L06**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	118	24-168	
2,4,5,6-Tetrachloro-m-Xylene	75	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-09-15.5'	**18-01-0280-6-A**	**01/04/18 14:45**	**Solid**	**GC 58**	**01/08/18**	**01/09/18 19:53**	**180108L06**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	24-168	
2,4,5,6-Tetrachloro-m-Xylene	84	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-04-2.5'	**18-01-0280-9-A**	**01/03/18 13:19**	**Solid**	**GC 58**	**01/08/18**	**01/09/18 20:11**	**180108L06**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	24-168	
2,4,5,6-Tetrachloro-m-Xylene	86	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-01-5.5'	**18-01-0280-12-A**	**01/04/18 08:15**	**Solid**	**GC 58**	**01/08/18**	**01/09/18 20:29**	**180108L06**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	105	24-168	
2,4,5,6-Tetrachloro-m-Xylene	79	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-02-5.5'	**18-01-0280-15-A**	**01/04/18 10:45**	**Solid**	**GC 58**	**01/08/18**	**01/09/18 20:47**	**180108L06**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	340	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	24-168	
2,4,5,6-Tetrachloro-m-Xylene	76	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-05-4'	**18-01-0280-17-A**	**01/04/18 13:40**	**Solid**	**GC 58**	**01/08/18**	**01/09/18 21:05**	**180108L06**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	24-168	
2,4,5,6-Tetrachloro-m-Xylene	81	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-06-5.5'	**18-01-0280-21-A**	**01/03/18 09:50**	**Solid**	**GC 58**	**01/08/18**	**01/09/18 21:23**	**180108L06**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	24-168	
2,4,5,6-Tetrachloro-m-Xylene	78	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-08-5'	**18-01-0280-23-A**	**01/04/18 15:37**	**Solid**	**GC 58**	**01/08/18**	**01/09/18 16:36**	**180108L06**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	109	24-168	
2,4,5,6-Tetrachloro-m-Xylene	81	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-10-10'	**18-01-0280-25-A**	**01/03/18 11:25**	**Solid**	**GC 58**	**01/08/18**	**01/09/18 21:41**	**180108L06**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	24-168	
2,4,5,6-Tetrachloro-m-Xylene	85	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15' DUP	**18-01-0280-28-AA**	**01/04/18 13:57**	**Solid**	**GC 58**	**01/08/18**	**01/09/18 21:59**	**180108L06**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	105	24-168	
2,4,5,6-Tetrachloro-m-Xylene	85	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-535-4506**	**N/A**	**Solid**	**GC 58**	**01/08/18**	**01/09/18 15:24**	**180108L06**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	104	24-168	
2,4,5,6-Tetrachloro-m-Xylene	91	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**18-01-0280-27-C**	**01/03/18 10:30**	**Aqueous**	**GC 58**	**01/09/18**	**01/11/18 22:26**	**180109L05H**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	0.96	1.00	
Aroclor-1221	ND	0.96	1.00	
Aroclor-1232	ND	0.96	1.00	
Aroclor-1242	ND	0.96	1.00	
Aroclor-1248	ND	0.96	1.00	
Aroclor-1254	ND	0.96	1.00	
Aroclor-1260	ND	0.96	1.00	
Aroclor-1262	ND	0.96	1.00	
Aroclor-1268	ND	0.96	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	50-135	
2,4,5,6-Tetrachloro-m-Xylene	97	50-135	

Method Blank	099-12-533-1356	N/A	Aqueous	GC 58	01/09/18	01/11/18 14:18	180109L05H

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	1.0	1.00	
Aroclor-1221	ND	1.0	1.00	
Aroclor-1232	ND	1.0	1.00	
Aroclor-1242	ND	1.0	1.00	
Aroclor-1248	ND	1.0	1.00	
Aroclor-1254	ND	1.0	1.00	
Aroclor-1260	ND	1.0	1.00	
Aroclor-1262	ND	1.0	1.00	
Aroclor-1268	ND	1.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	50-135	
2,4,5,6-Tetrachloro-m-Xylene	66	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**18-01-0280-27-E**	**01/03/18 10:30**	**Aqueous**	**GC 68**	**01/10/18**	**01/13/18 04:35**	**180110L10**

Parameter	Result	RL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	1.00	
Bolstar	ND	0.0050	1.00	
Chlorpyrifos	ND	0.0050	1.00	
Coumaphos	ND	0.0050	1.00	
Diazinon	ND	0.0050	1.00	
Dichlorvos	ND	0.0050	1.00	
Disulfoton	ND	0.0099	1.00	
Ethoprop	ND	0.0050	1.00	
Fensulfothion	ND	0.0050	1.00	
Fenthion	ND	0.0050	1.00	
Merphos	ND	0.0050	1.00	
Methyl Parathion	ND	0.0050	1.00	
Mevinphos	ND	0.0050	1.00	
Naled	ND	0.040	1.00	
Phorate	ND	0.0050	1.00	
Ronnel	ND	0.0050	1.00	
Stirophos	ND	0.020	1.00	
Tokuthion	ND	0.0050	1.00	
Trichloronate	ND	0.0050	1.00	
Demeton-o/s	ND	0.0050	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	86	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-963-225**	**N/A**	**Aqueous**	**GC 68**	**01/10/18**	**01/12/18 11:33**	**180110L10**

Parameter	Result	RL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	1.00	
Bolstar	ND	0.0050	1.00	
Chlorpyrifos	ND	0.0050	1.00	
Coumaphos	ND	0.0050	1.00	
Diazinon	ND	0.0050	1.00	
Dichlorvos	ND	0.0050	1.00	
Disulfoton	ND	0.010	1.00	
Ethoprop	ND	0.0050	1.00	
Fensulfothion	ND	0.0050	1.00	
Fenthion	ND	0.0050	1.00	
Merphos	ND	0.0050	1.00	
Methyl Parathion	ND	0.0050	1.00	
Mevinphos	ND	0.0050	1.00	
Naled	ND	0.040	1.00	
Phorate	ND	0.0050	1.00	
Ronnel	ND	0.0050	1.00	
Stirophos	ND	0.020	1.00	
Tokuthion	ND	0.0050	1.00	
Trichloronate	ND	0.0050	1.00	
Demeton-o/s	ND	0.0050	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	67	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15'	**18-01-0280-1-AA**	**01/04/18 13:57**	**Solid**	**GC 68**	**01/08/18**	**01/11/18 23:42**	**180108L08**

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	0.50	1.00	
Azinphos Methyl	ND	0.50	1.00	
Bolstar	ND	0.50	1.00	
Chlorpyrifos	ND	0.50	1.00	
Coumaphos	ND	0.50	1.00	
Diazinon	ND	0.50	1.00	
Dichlorvos	ND	0.50	1.00	
Disulfoton	ND	0.50	1.00	
Ethoprop	ND	0.50	1.00	
Fensulfothion	ND	0.50	1.00	
Fenthion	ND	0.50	1.00	
Merphos	ND	0.50	1.00	
Methyl Parathion	ND	0.50	1.00	
Mevinphos	ND	0.50	1.00	
Naled	ND	4.0	1.00	
Phorate	ND	0.50	1.00	
Ronnel	ND	0.50	1.00	
Stirophos	ND	2.0	1.00	
Tokuthion	ND	0.50	1.00	
Trichloronate	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	32	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-09-15.5'	**18-01-0280-6-A**	**01/04/18 14:45**	**Solid**	**GC 68**	**01/08/18**	**01/12/18 00:29**	**180108L08**

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	0.50	1.00	
Azinphos Methyl	ND	0.50	1.00	
Bolstar	ND	0.50	1.00	
Chlorpyrifos	ND	0.50	1.00	
Coumaphos	ND	0.50	1.00	
Diazinon	ND	0.50	1.00	
Dichlorvos	ND	0.50	1.00	
Disulfoton	ND	0.50	1.00	
Ethoprop	ND	0.50	1.00	
Fensulfothion	ND	0.50	1.00	
Fenthion	ND	0.50	1.00	
Merphos	ND	0.50	1.00	
Methyl Parathion	ND	0.50	1.00	
Mevinphos	ND	0.50	1.00	
Naled	ND	4.0	1.00	
Phorate	ND	0.50	1.00	
Ronnel	ND	0.50	1.00	
Stirophos	ND	2.0	1.00	
Tokuthion	ND	0.50	1.00	
Trichloronate	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	31	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-04-2.5'	**18-01-0280-9-A**	**01/03/18 13:19**	**Solid**	**GC 68**	**01/08/18**	**01/12/18 01:17**	**180108L08**

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	0.50	1.00	
Azinphos Methyl	ND	0.50	1.00	
Bolstar	ND	0.50	1.00	
Chlorpyrifos	ND	0.50	1.00	
Coumaphos	ND	0.50	1.00	
Diazinon	ND	0.50	1.00	
Dichlorvos	ND	0.50	1.00	
Disulfoton	ND	0.50	1.00	
Ethoprop	ND	0.50	1.00	
Fensulfothion	ND	0.50	1.00	
Fenthion	ND	0.50	1.00	
Merphos	ND	0.50	1.00	
Methyl Parathion	ND	0.50	1.00	
Mevinphos	ND	0.50	1.00	
Naled	ND	4.0	1.00	
Phorate	ND	0.50	1.00	
Ronnel	ND	0.50	1.00	
Stirophos	ND	2.0	1.00	
Tokuthion	ND	0.50	1.00	
Trichloronate	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	30	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-01-5.5'	**18-01-0280-12-A**	**01/04/18 08:15**	**Solid**	**GC 68**	**01/08/18**	**01/12/18 02:04**	**180108L08**

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	0.50	1.00	
Azinphos Methyl	ND	0.50	1.00	
Bolstar	ND	0.50	1.00	
Chlorpyrifos	ND	0.50	1.00	
Coumaphos	ND	0.50	1.00	
Diazinon	ND	0.50	1.00	
Dichlorvos	ND	0.50	1.00	
Disulfoton	ND	0.50	1.00	
Ethoprop	ND	0.50	1.00	
Fensulfothion	ND	0.50	1.00	
Fenthion	ND	0.50	1.00	
Merphos	ND	0.50	1.00	
Methyl Parathion	ND	0.50	1.00	
Mevinphos	ND	0.50	1.00	
Naled	ND	4.0	1.00	
Phorate	ND	0.50	1.00	
Ronnel	ND	0.50	1.00	
Stirophos	ND	2.0	1.00	
Tokuthion	ND	0.50	1.00	
Trichloronate	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	33	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-02-5.5'	**18-01-0280-15-A**	**01/04/18 10:45**	**Solid**	**GC 68**	**01/08/18**	**01/12/18 16:20**	**180108L08**

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	0.49	1.00	
Azinphos Methyl	ND	0.49	1.00	
Bolstar	ND	0.49	1.00	
Chlorpyrifos	ND	0.49	1.00	
Coumaphos	ND	0.49	1.00	
Diazinon	ND	0.49	1.00	
Dichlorvos	ND	0.49	1.00	
Disulfoton	ND	0.49	1.00	
Ethoprop	ND	0.49	1.00	
Fensulfothion	ND	0.49	1.00	
Fenthion	ND	0.49	1.00	
Merphos	ND	0.49	1.00	
Methyl Parathion	ND	0.49	1.00	
Mevinphos	ND	0.49	1.00	
Naled	ND	3.9	1.00	
Phorate	ND	0.49	1.00	
Ronnel	ND	0.49	1.00	
Stirophos	ND	2.0	1.00	
Tokuthion	ND	0.49	1.00	
Trichloronate	ND	0.49	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	108	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-05-4'	**18-01-0280-17-A**	**01/04/18 13:40**	**Solid**	**GC 68**	**01/08/18**	**01/12/18 02:52**	**180108L08**

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	0.50	1.00	
Azinphos Methyl	ND	0.50	1.00	
Bolstar	ND	0.50	1.00	
Chlorpyrifos	ND	0.50	1.00	
Coumaphos	ND	0.50	1.00	
Diazinon	ND	0.50	1.00	
Dichlorvos	ND	0.50	1.00	
Disulfoton	ND	0.50	1.00	
Ethoprop	ND	0.50	1.00	
Fensulfothion	ND	0.50	1.00	
Fenthion	ND	0.50	1.00	
Merphos	ND	0.50	1.00	
Methyl Parathion	ND	0.50	1.00	
Mevinphos	ND	0.50	1.00	
Naled	ND	4.0	1.00	
Phorate	ND	0.50	1.00	
Ronnel	ND	0.50	1.00	
Stirophos	ND	2.0	1.00	
Tokuthion	ND	0.50	1.00	
Trichloronate	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	34	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-06-5.5'	**18-01-0280-21-A**	**01/03/18 09:50**	**Solid**	**GC 68**	**01/08/18**	**01/12/18 17:07**	**180108L08**

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	0.50	1.00	
Azinphos Methyl	ND	0.50	1.00	
Bolstar	ND	0.50	1.00	
Chlorpyrifos	ND	0.50	1.00	
Coumaphos	ND	0.50	1.00	
Diazinon	ND	0.50	1.00	
Dichlorvos	ND	0.50	1.00	
Disulfoton	ND	0.50	1.00	
Ethoprop	ND	0.50	1.00	
Fensulfothion	ND	0.50	1.00	
Fenthion	ND	0.50	1.00	
Merphos	ND	0.50	1.00	
Methyl Parathion	ND	0.50	1.00	
Mevinphos	ND	0.50	1.00	
Naled	ND	4.0	1.00	
Phorate	ND	0.50	1.00	
Ronnel	ND	0.50	1.00	
Stirophos	ND	2.0	1.00	
Tokuthion	ND	0.50	1.00	
Trichloronate	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	82	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-08-5'	**18-01-0280-23-A**	**01/04/18 15:37**	**Solid**	**GC 68**	**01/08/18**	**01/12/18 03:40**	**180108L08**

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	0.50	1.00	
Azinphos Methyl	ND	0.50	1.00	
Bolstar	ND	0.50	1.00	
Chlorpyrifos	ND	0.50	1.00	
Coumaphos	ND	0.50	1.00	
Diazinon	ND	0.50	1.00	
Dichlorvos	ND	0.50	1.00	
Disulfoton	ND	0.50	1.00	
Ethoprop	ND	0.50	1.00	
Fensulfothion	ND	0.50	1.00	
Fenthion	ND	0.50	1.00	
Merphos	ND	0.50	1.00	
Methyl Parathion	ND	0.50	1.00	
Mevinphos	ND	0.50	1.00	
Naled	ND	4.0	1.00	
Phorate	ND	0.50	1.00	
Ronnel	ND	0.50	1.00	
Stirophos	ND	2.0	1.00	
Tokuthion	ND	0.50	1.00	
Trichloronate	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	34	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-10-10'	**18-01-0280-25-A**	**01/03/18 11:25**	**Solid**	**GC 68**	**01/08/18**	**01/12/18 04:28**	**180108L08**

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	0.50	1.00	
Azinphos Methyl	ND	0.50	1.00	
Bolstar	ND	0.50	1.00	
Chlorpyrifos	ND	0.50	1.00	
Coumaphos	ND	0.50	1.00	
Diazinon	ND	0.50	1.00	
Dichlorvos	ND	0.50	1.00	
Disulfoton	ND	0.50	1.00	
Ethoprop	ND	0.50	1.00	
Fensulfothion	ND	0.50	1.00	
Fenthion	ND	0.50	1.00	
Merphos	ND	0.50	1.00	
Methyl Parathion	ND	0.50	1.00	
Mevinphos	ND	0.50	1.00	
Naled	ND	4.0	1.00	
Phorate	ND	0.50	1.00	
Ronnel	ND	0.50	1.00	
Stirophos	ND	2.0	1.00	
Tokuthion	ND	0.50	1.00	
Trichloronate	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	36	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15' DUP	**18-01-0280-28-AA**	**01/04/18 13:57**	**Solid**	**GC 68**	**01/08/18**	**01/12/18 05:15**	**180108L08**

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	0.50	1.00	
Azinphos Methyl	ND	0.50	1.00	
Bolstar	ND	0.50	1.00	
Chlorpyrifos	ND	0.50	1.00	
Coumaphos	ND	0.50	1.00	
Diazinon	ND	0.50	1.00	
Dichlorvos	ND	0.50	1.00	
Disulfoton	ND	0.50	1.00	
Ethoprop	ND	0.50	1.00	
Fensulfothion	ND	0.50	1.00	
Fenthion	ND	0.50	1.00	
Merphos	ND	0.50	1.00	
Methyl Parathion	ND	0.50	1.00	
Mevinphos	ND	0.50	1.00	
Naled	ND	4.0	1.00	
Phorate	ND	0.50	1.00	
Ronnel	ND	0.50	1.00	
Stirophos	ND	2.0	1.00	
Tokuthion	ND	0.50	1.00	
Trichloronate	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	31	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-973-359**	**N/A**	**Solid**	**GC 68**	**01/08/18**	**01/11/18 22:54**	**180108L08**

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	0.50	1.00	
Azinphos Methyl	ND	0.50	1.00	
Bolstar	ND	0.50	1.00	
Chlorpyrifos	ND	0.50	1.00	
Coumaphos	ND	0.50	1.00	
Diazinon	ND	0.50	1.00	
Dichlorvos	ND	0.50	1.00	
Disulfoton	ND	0.50	1.00	
Ethoprop	ND	0.50	1.00	
Fensulfothion	ND	0.50	1.00	
Fenthion	ND	0.50	1.00	
Merphos	ND	0.50	1.00	
Methyl Parathion	ND	0.50	1.00	
Mevinphos	ND	0.50	1.00	
Naled	ND	4.0	1.00	
Phorate	ND	0.50	1.00	
Ronnel	ND	0.50	1.00	
Stirophos	ND	2.0	1.00	
Tokuthion	ND	0.50	1.00	
Trichloronate	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	35	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15'	**18-01-0280-1-AA**	**01/04/18 13:57**	**Solid**	**GC 40**	**01/12/18**	**01/16/18 00:35**	**180112L10**

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	250	1.00	
Dicamba	ND	10	1.00	
MCPP	ND	10000	1.00	
MCPA	ND	10000	1.00	
Dichlorprop	ND	100	1.00	
2,4-D	ND	100	1.00	
2,4,5-TP (Silvex)	ND	10	1.00	
2,4,5-T	ND	10	1.00	
2,4-DB	ND	100	1.00	
Dinoseb	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	102	44-146	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-09-15.5'	**18-01-0280-6-A**	**01/04/18 14:45**	**Solid**	**GC 40**	**01/12/18**	**01/16/18 07:07**	**180112L10**

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	250	1.00	
Dicamba	ND	10	1.00	
MCPP	ND	10000	1.00	
MCPA	ND	10000	1.00	
Dichlorprop	ND	100	1.00	
2,4-D	ND	100	1.00	
2,4,5-TP (Silvex)	ND	10	1.00	
2,4,5-T	ND	10	1.00	
2,4-DB	ND	100	1.00	
Dinoseb	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	105	44-146	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Project: Solana Torrance

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-04-2.5'	**18-01-0280-9-A**	**01/03/18 13:19**	**Solid**	**GC 40**	**01/12/18**	**01/16/18 00:58**	**180112L10**

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	250	1.00	
Dicamba	ND	9.9	1.00	
MCPP	ND	9900	1.00	
MCPA	ND	9900	1.00	
Dichlorprop	ND	99	1.00	
2,4-D	ND	99	1.00	
2,4,5-TP (Silvex)	ND	9.9	1.00	
2,4,5-T	ND	9.9	1.00	
2,4-DB	ND	99	1.00	
Dinoseb	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	106	44-146	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-01-5.5'	**18-01-0280-12-A**	**01/04/18 08:15**	**Solid**	**GC 40**	**01/12/18**	**01/16/18 01:21**	**180112L10**

Parameter	Result	RL	DF	Qualifiers
Dalapon	250	250	1.00	
Dicamba	ND	9.9	1.00	
MCPP	ND	9900	1.00	
MCPA	ND	9900	1.00	
Dichlorprop	ND	99	1.00	
2,4-D	ND	99	1.00	
2,4,5-TP (Silvex)	ND	9.9	1.00	
2,4,5-T	ND	9.9	1.00	
2,4-DB	ND	99	1.00	
Dinoseb	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	114	44-146	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-02-5.5'	**18-01-0280-15-A**	**01/04/18 10:45**	**Solid**	**GC 40**	**01/12/18**	**01/16/18 07:30**	**180112L10**

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	250	1.00	
Dicamba	ND	10	1.00	
MCPP	ND	10000	1.00	
MCPA	ND	10000	1.00	
Dichlorprop	ND	100	1.00	
2,4-D	ND	100	1.00	
2,4,5-TP (Silvex)	ND	10	1.00	
2,4,5-T	ND	10	1.00	
2,4-DB	ND	100	1.00	
Dinoseb	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	97	44-146	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-05-4'	**18-01-0280-17-A**	**01/04/18 13:40**	**Solid**	**GC 40**	**01/12/18**	**01/16/18 01:44**	**180112L10**

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	250	1.00	
Dicamba	ND	10	1.00	
MCPP	ND	10000	1.00	
MCPA	ND	10000	1.00	
Dichlorprop	ND	100	1.00	
2,4-D	ND	100	1.00	
2,4,5-TP (Silvex)	ND	10	1.00	
2,4,5-T	ND	10	1.00	
2,4-DB	ND	100	1.00	
Dinoseb	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	108	44-146	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-06-5.5'	**18-01-0280-21-A**	**01/03/18 09:50**	**Solid**	**GC 40**	**01/12/18**	**01/16/18 02:07**	**180112L10**

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	250	1.00	
Dicamba	ND	10	1.00	
MCPP	ND	10000	1.00	
MCPA	ND	10000	1.00	
Dichlorprop	ND	100	1.00	
2,4-D	ND	100	1.00	
2,4,5-TP (Silvex)	ND	10	1.00	
2,4,5-T	ND	10	1.00	
2,4-DB	ND	100	1.00	
Dinoseb	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	90	44-146	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-08-5'	**18-01-0280-23-A**	**01/04/18 15:37**	**Solid**	**GC 40**	**01/12/18**	**01/16/18 02:31**	**180112L10**

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	250	1.00	
Dicamba	ND	10	1.00	
MCPP	ND	10000	1.00	
MCPA	ND	10000	1.00	
Dichlorprop	ND	100	1.00	
2,4-D	ND	100	1.00	
2,4,5-TP (Silvex)	ND	10	1.00	
2,4,5-T	ND	10	1.00	
2,4-DB	ND	100	1.00	
Dinoseb	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	102	44-146	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-10-10'	**18-01-0280-25-A**	**01/03/18 11:25**	**Solid**	**GC 40**	**01/12/18**	**01/16/18 02:54**	**180112L10**

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	250	1.00	
Dicamba	ND	9.9	1.00	
MCPP	ND	9900	1.00	
MCPA	ND	9900	1.00	
Dichlorprop	ND	99	1.00	
2,4-D	ND	99	1.00	
2,4,5-TP (Silvex)	ND	9.9	1.00	
2,4,5-T	ND	9.9	1.00	
2,4-DB	ND	99	1.00	
Dinoseb	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	108	44-146	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15' DUP	**18-01-0280-28-AA**	**01/04/18 13:57**	**Solid**	**GC 40**	**01/12/18**	**01/16/18 03:17**	**180112L10**

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	250	1.00	
Dicamba	ND	10	1.00	
MCPP	ND	10000	1.00	
MCPA	ND	10000	1.00	
Dichlorprop	ND	100	1.00	
2,4-D	ND	100	1.00	
2,4,5-TP (Silvex)	ND	10	1.00	
2,4,5-T	ND	10	1.00	
2,4-DB	ND	100	1.00	
Dinoseb	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	104	44-146	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-033-1539**	**N/A**	**Solid**	**GC 40**	**01/12/18**	**01/15/18 23:49**	**180112L10**

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	250	1.00	
Dicamba	ND	10	1.00	
MCPP	ND	10000	1.00	
MCPA	ND	10000	1.00	
Dichlorprop	ND	100	1.00	
2,4-D	ND	100	1.00	
2,4,5-TP (Silvex)	ND	10	1.00	
2,4,5-T	ND	10	1.00	
2,4-DB	ND	100	1.00	
Dinoseb	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	98	44-146	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**18-01-0280-27-B**	**01/03/18 10:30**	**Aqueous**	**GC 40**	**01/10/18**	**01/15/18 15:45**	**180110L05**

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	12	1.00	
Dicamba	ND	0.48	1.00	
MCPP	ND	480	1.00	
MCPA	ND	480	1.00	
Dichlorprop	ND	4.8	1.00	
2,4-D	ND	4.8	1.00	
2,4,5-TP (Silvex)	ND	0.48	1.00	
2,4,5-T	ND	0.48	1.00	
2,4-DB	ND	4.8	1.00	
Dinoseb	ND	2.4	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	112	0-123	

Method Blank	095-01-034-784	N/A	Aqueous	GC 40	01/10/18	01/15/18 14:36	180110L05

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	13	1.00	
Dicamba	ND	0.50	1.00	
MCPP	ND	500	1.00	
MCPA	ND	500	1.00	
Dichlorprop	ND	5.0	1.00	
2,4-D	ND	5.0	1.00	
2,4,5-TP (Silvex)	ND	0.50	1.00	
2,4,5-T	ND	0.50	1.00	
2,4-DB	ND	5.0	1.00	
Dinoseb	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	92	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**18-01-0280-27-D**	**01/03/18 10:30**	**Aqueous**	**GC/MS SS**	**01/10/18**	**01/11/18 21:41**	**180110L11A**

Parameter	Result	RL	DF	Qualifiers
Carbazole	ND	9.5	1.00	
Acenaphthene	ND	9.5	1.00	
Acenaphthylene	ND	9.5	1.00	
Aniline	ND	9.5	1.00	
Anthracene	ND	9.5	1.00	
Azobenzene	ND	9.5	1.00	
Benzidine	ND	48	1.00	
Benzo (a) Anthracene	ND	9.5	1.00	
Benzo (a) Pyrene	ND	9.5	1.00	
Benzo (b) Fluoranthene	ND	9.5	1.00	
Benzo (g,h,i) Perylene	ND	9.5	1.00	
Benzo (k) Fluoranthene	ND	9.5	1.00	
Benzoic Acid	ND	48	1.00	
Benzyl Alcohol	ND	9.5	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	1.00	
Bis(2-Chloroethyl) Ether	ND	24	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	1.00	
Butyl Benzyl Phthalate	ND	9.5	1.00	
4-Chloro-3-Methylphenol	ND	9.5	1.00	
4-Chloroaniline	ND	9.5	1.00	
2-Chloronaphthalene	ND	9.5	1.00	
2-Chlorophenol	ND	9.5	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	1.00	
Chrysene	ND	9.5	1.00	
Di-n-Butyl Phthalate	ND	9.5	1.00	
Di-n-Octyl Phthalate	ND	9.5	1.00	
Dibenz (a,h) Anthracene	ND	9.5	1.00	
Dibenzofuran	ND	9.5	1.00	
1,2-Dichlorobenzene	ND	9.5	1.00	
1,3-Dichlorobenzene	ND	9.5	1.00	
1,4-Dichlorobenzene	ND	9.5	1.00	
3,3'-Dichlorobenzidine	ND	24	1.00	
2,4-Dichlorophenol	ND	9.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: Solana Torrance

Parameter	Result	RL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	1.00	
Dimethyl Phthalate	ND	9.5	1.00	
2,4-Dimethylphenol	ND	9.5	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	1.00	
2,4-Dinitrophenol	ND	48	1.00	
2,4-Dinitrotoluene	ND	9.5	1.00	
2,6-Dinitrotoluene	ND	9.5	1.00	
Fluoranthene	ND	9.5	1.00	
Fluorene	ND	9.5	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	1.00	
Hexachlorobenzene	ND	9.5	1.00	
Hexachlorocyclopentadiene	ND	24	1.00	
Hexachloroethane	ND	9.5	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	1.00	
Isophorone	ND	9.5	1.00	
2-Methylnaphthalene	ND	9.5	1.00	
1-Methylnaphthalene	ND	9.5	1.00	
2-Methylphenol	ND	9.5	1.00	
3/4-Methylphenol	ND	9.5	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	1.00	
N-Nitrosodimethylamine	ND	9.5	1.00	
N-Nitrosodiphenylamine	ND	9.5	1.00	
Naphthalene	ND	9.5	1.00	
4-Nitroaniline	ND	9.5	1.00	
3-Nitroaniline	ND	9.5	1.00	
2-Nitroaniline	ND	9.5	1.00	
Nitrobenzene	ND	24	1.00	
4-Nitrophenol	ND	9.5	1.00	
2-Nitrophenol	ND	9.5	1.00	
Pentachlorophenol	ND	9.5	1.00	
Phenanthrene	ND	9.5	1.00	
Phenol	ND	9.5	1.00	
Pyrene	ND	9.5	1.00	
Pyridine	ND	9.5	1.00	
1,2,4-Trichlorobenzene	ND	9.5	1.00	
2,4,6-Trichlorophenol	ND	9.5	1.00	
2,4,5-Trichlorophenol	ND	9.5	1.00	
2,6-Dichlorophenol	ND	9.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants	Date Received:	01/05/18
3210 El Camino Real, Suite 150	Work Order:	18-01-0280
Irvine, CA 92602-1365	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: Solana Torrance		Page 3 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	87	33-120	
2-Fluorophenol	61	24-120	
Nitrobenzene-d5	92	38-120	
p-Terphenyl-d14	111	41-137	
Phenol-d6	38	16-120	
2,4,6-Tribromophenol	93	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-4497**	**N/A**	**Aqueous**	**GC/MS SS**	**01/10/18**	**01/11/18 11:22**	**180110L11A**

Parameter	Result	RL	DF	Qualifiers
Carbazole	ND	10	1.00	
Acenaphthene	ND	10	1.00	
Acenaphthylene	ND	10	1.00	
Aniline	ND	10	1.00	
Anthracene	ND	10	1.00	
Azobenzene	ND	10	1.00	
Benzidine	ND	50	1.00	
Benzo (a) Anthracene	ND	10	1.00	
Benzo (a) Pyrene	ND	10	1.00	
Benzo (b) Fluoranthene	ND	10	1.00	
Benzo (g,h,i) Perylene	ND	10	1.00	
Benzo (k) Fluoranthene	ND	10	1.00	
Benzoic Acid	ND	50	1.00	
Benzyl Alcohol	ND	10	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	1.00	
Bis(2-Chloroethyl) Ether	ND	25	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	1.00	
Butyl Benzyl Phthalate	ND	10	1.00	
4-Chloro-3-Methylphenol	ND	10	1.00	
4-Chloroaniline	ND	10	1.00	
2-Chloronaphthalene	ND	10	1.00	
2-Chlorophenol	ND	10	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	1.00	
Chrysene	ND	10	1.00	
Di-n-Butyl Phthalate	ND	10	1.00	
Di-n-Octyl Phthalate	ND	10	1.00	
Dibenz (a,h) Anthracene	ND	10	1.00	
Dibenzofuran	ND	10	1.00	
1,2-Dichlorobenzene	ND	10	1.00	
1,3-Dichlorobenzene	ND	10	1.00	
1,4-Dichlorobenzene	ND	10	1.00	
3,3'-Dichlorobenzidine	ND	25	1.00	
2,4-Dichlorophenol	ND	10	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: Solana Torrance

Parameter	Result	RL	DF	Qualifiers
Diethyl Phthalate	ND	10	1.00	
Dimethyl Phthalate	ND	10	1.00	
2,4-Dimethylphenol	ND	10	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	1.00	
2,4-Dinitrophenol	ND	50	1.00	
2,4-Dinitrotoluene	ND	10	1.00	
2,6-Dinitrotoluene	ND	10	1.00	
Fluoranthene	ND	10	1.00	
Fluorene	ND	10	1.00	
Hexachloro-1,3-Butadiene	ND	10	1.00	
Hexachlorobenzene	ND	10	1.00	
Hexachlorocyclopentadiene	ND	25	1.00	
Hexachloroethane	ND	10	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	1.00	
Isophorone	ND	10	1.00	
2-Methylnaphthalene	ND	10	1.00	
1-Methylnaphthalene	ND	10	1.00	
2-Methylphenol	ND	10	1.00	
3/4-Methylphenol	ND	10	1.00	
N-Nitroso-di-n-propylamine	ND	10	1.00	
N-Nitrosodimethylamine	ND	10	1.00	
N-Nitrosodiphenylamine	ND	10	1.00	
Naphthalene	ND	10	1.00	
4-Nitroaniline	ND	10	1.00	
3-Nitroaniline	ND	10	1.00	
2-Nitroaniline	ND	10	1.00	
Nitrobenzene	ND	25	1.00	
4-Nitrophenol	ND	10	1.00	
2-Nitrophenol	ND	10	1.00	
Pentachlorophenol	ND	10	1.00	
Phenanthrene	ND	10	1.00	
Phenol	ND	10	1.00	
Pyrene	ND	10	1.00	
Pyridine	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	10	1.00	
2,4,6-Trichlorophenol	ND	10	1.00	
2,4,5-Trichlorophenol	ND	10	1.00	
2,6-Dichlorophenol	ND	10	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants	Date Received:	01/05/18
3210 El Camino Real, Suite 150	Work Order:	18-01-0280
Irvine, CA 92602-1365	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: Solana Torrance		Page 6 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	75	33-120	
2-Fluorophenol	55	24-120	
Nitrobenzene-d5	82	38-120	
p-Terphenyl-d14	96	41-137	
Phenol-d6	35	16-120	
2,4,6-Tribromophenol	86	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15'	**18-01-0280-1-A**	**01/04/18 13:57**	**Solid**	**GC/MS CCC**	**01/08/18**	**01/09/18 16:56**	**180108L07**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dichlorophenol	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants	Date Received:	01/05/18
3210 El Camino Real, Suite 150	Work Order:	18-01-0280
Irvine, CA 92602-1365	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Solana Torrance		Page 3 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	61	27-120	
2-Fluorophenol	62	25-120	
Nitrobenzene-d5	57	33-123	
p-Terphenyl-d14	83	27-159	
Phenol-d6	62	26-122	
2,4,6-Tribromophenol	83	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-09-15.5'	**18-01-0280-6-A**	**01/04/18 14:45**	**Solid**	**GC/MS CCC**	**01/08/18**	**01/09/18 17:14**	**180108L07**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dichlorophenol	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants	Date Received:	01/05/18
3210 El Camino Real, Suite 150	Work Order:	18-01-0280
Irvine, CA 92602-1365	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Solana Torrance		Page 6 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	47	27-120	
2-Fluorophenol	45	25-120	
Nitrobenzene-d5	44	33-123	
p-Terphenyl-d14	66	27-159	
Phenol-d6	47	26-122	
2,4,6-Tribromophenol	66	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-04-2.5'	**18-01-0280-9-A**	**01/03/18 13:19**	**Solid**	**GC/MS CCC**	**01/08/18**	**01/09/18 17:32**	**180108L07**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dichlorophenol	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants	Date Received:	01/05/18
3210 El Camino Real, Suite 150	Work Order:	18-01-0280
Irvine, CA 92602-1365	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Solana Torrance		Page 9 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	83	27-120	
2-Fluorophenol	83	25-120	
Nitrobenzene-d5	80	33-123	
p-Terphenyl-d14	102	27-159	
Phenol-d6	79	26-122	
2,4,6-Tribromophenol	87	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-01-5.5'	**18-01-0280-12-A**	**01/04/18 08:15**	**Solid**	**GC/MS CCC**	**01/08/18**	**01/09/18 17:50**	**180108L07**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	9.9	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	9.9	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dichlorophenol	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants	Date Received:	01/05/18
3210 El Camino Real, Suite 150	Work Order:	18-01-0280
Irvine, CA 92602-1365	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Solana Torrance		Page 12 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	45	27-120	
2-Fluorophenol	46	25-120	
Nitrobenzene-d5	40	33-123	
p-Terphenyl-d14	65	27-159	
Phenol-d6	48	26-122	
2,4,6-Tribromophenol	60	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-02-5.5'	**18-01-0280-15-A**	**01/04/18 10:45**	**Solid**	**GC/MS CCC**	**01/08/18**	**01/09/18 18:08**	**180108L07**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	1.5	0.50	1.00	
Benzo (a) Pyrene	1.1	0.50	1.00	
Benzo (b) Fluoranthene	1.2	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	1.3	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	1.7	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	0.53	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dichlorophenol	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	1.5	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	1.7	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants	Date Received:	01/05/18
3210 El Camino Real, Suite 150	Work Order:	18-01-0280
Irvine, CA 92602-1365	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Solana Torrance		Page 15 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	76	27-120	
2-Fluorophenol	71	25-120	
Nitrobenzene-d5	65	33-123	
p-Terphenyl-d14	108	27-159	
Phenol-d6	75	26-122	
2,4,6-Tribromophenol	100	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-05-4'	**18-01-0280-17-A**	**01/04/18 13:40**	**Solid**	**GC/MS CCC**	**01/08/18**	**01/09/18 18:27**	**180108L07**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	0.57	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dichlorophenol	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants	Date Received:	01/05/18
3210 El Camino Real, Suite 150	Work Order:	18-01-0280
Irvine, CA 92602-1365	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Solana Torrance		Page 18 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	58	27-120	
2-Fluorophenol	61	25-120	
Nitrobenzene-d5	52	33-123	
p-Terphenyl-d14	93	27-159	
Phenol-d6	68	26-122	
2,4,6-Tribromophenol	79	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-06-5.5'	**18-01-0280-21-A**	**01/03/18 09:50**	**Solid**	**GC/MS CCC**	**01/08/18**	**01/09/18 18:45**	**180108L07**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dichlorophenol	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants	Date Received:	01/05/18
3210 El Camino Real, Suite 150	Work Order:	18-01-0280
Irvine, CA 92602-1365	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Solana Torrance		Page 21 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	53	27-120	
2-Fluorophenol	51	25-120	
Nitrobenzene-d5	49	33-123	
p-Terphenyl-d14	77	27-159	
Phenol-d6	58	26-122	
2,4,6-Tribromophenol	67	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-08-5'	**18-01-0280-23-A**	**01/04/18 15:37**	**Solid**	**GC/MS CCC**	**01/08/18**	**01/09/18 19:03**	**180108L07**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	0.61	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dichlorophenol	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants	Date Received:	01/05/18
3210 El Camino Real, Suite 150	Work Order:	18-01-0280
Irvine, CA 92602-1365	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Solana Torrance		Page 24 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	76	27-120	
2-Fluorophenol	80	25-120	
Nitrobenzene-d5	72	33-123	
p-Terphenyl-d14	101	27-159	
Phenol-d6	81	26-122	
2,4,6-Tribromophenol	81	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-10-10'	**18-01-0280-25-A**	**01/03/18 11:25**	**Solid**	**GC/MS CCC**	**01/08/18**	**01/09/18 19:21**	**180108L07**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	0.54	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dichlorophenol	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants	Date Received:	01/05/18
3210 El Camino Real, Suite 150	Work Order:	18-01-0280
Irvine, CA 92602-1365	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Solana Torrance		Page 27 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	67	27-120	
2-Fluorophenol	70	25-120	
Nitrobenzene-d5	60	33-123	
p-Terphenyl-d14	96	27-159	
Phenol-d6	75	26-122	
2,4,6-Tribromophenol	82	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15' DUP	**18-01-0280-28-AA**	**01/04/18 13:57**	**Solid**	**GC/MS SS**	**01/08/18**	**01/11/18 12:47**	**180108L07**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dichlorophenol	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants	Date Received:	01/05/18
3210 El Camino Real, Suite 150	Work Order:	18-01-0280
Irvine, CA 92602-1365	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Solana Torrance		Page 30 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	44	27-120	
2-Fluorophenol	45	25-120	
Nitrobenzene-d5	37	33-123	
p-Terphenyl-d14	64	27-159	
Phenol-d6	49	26-122	
2,4,6-Tribromophenol	51	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-4089**	**N/A**	**Solid**	**GC/MS CCC**	**01/08/18**	**01/09/18 15:56**	**180108L07**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dichlorophenol	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants	Date Received:	01/05/18
3210 El Camino Real, Suite 150	Work Order:	18-01-0280
Irvine, CA 92602-1365	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Solana Torrance		Page 33 of 33

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	79	27-120	
2-Fluorophenol	76	25-120	
Nitrobenzene-d5	82	33-123	
p-Terphenyl-d14	88	27-159	
Phenol-d6	73	26-122	
2,4,6-Tribromophenol	88	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants		Date Received:	01/05/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0280
Irvine, CA 92602-1365		Preparation:	EPA 3060A
		Method:	EPA 7199
Project: Solana Torrance			Page 1 of 16

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
KJ-04-2.5'	**Sample**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 13:24**	**180106S01P**
KJ-04-2.5'	**Matrix Spike**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 14:36**	**180106S01P**
KJ-04-2.5'	**Matrix Spike Duplicate**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 14:45**	**180106S01P**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	ND	20000	19660	98	19700	98	75-125	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants		Date Received:	01/05/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0280
Irvine, CA 92602-1365		Preparation:	EPA 3545
		Method:	EPA 8310
Project: Solana Torrance			Page 2 of 16

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
KJ-08-5'	**Sample**	**Solid**	**HPLC 5**	**01/08/18**	**01/12/18 20:19**	**180108S04**
KJ-08-5'	**Matrix Spike**	**Solid**	**HPLC 5**	**01/08/18**	**01/12/18 04:50**	**180108S04**
KJ-08-5'	**Matrix Spike Duplicate**	**Solid**	**HPLC 5**	**01/08/18**	**01/12/18 05:22**	**180108S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Naphthalene	ND	100.0	66.82	67	62.67	63	23-167	6	0-46	
Acenaphthylene	ND	100.0	69.30	69	65.49	65	24-120	6	0-47	
Acenaphthene	ND	100.0	79.04	79	63.82	64	16-120	21	0-46	
Fluorene	ND	100.0	72.42	72	66.17	66	32-120	9	0-44	
Phenanthrene	ND	100.0	76.95	77	73.55	74	34-120	5	0-38	
Anthracene	ND	100.0	71.43	71	67.07	67	27-120	6	0-45	
Fluoranthene	ND	100.0	83.12	83	86.30	86	32-122	4	0-41	
Pyrene	ND	100.0	103.7	104	86.50	87	31-127	18	0-38	
Benzo (a) Anthracene	ND	100.0	82.65	83	79.82	80	32-122	3	0-43	
Chrysene	ND	100.0	84.86	85	83.54	84	30-132	2	0-42	
Benzo (b) Fluoranthene	ND	100.0	69.42	69	80.10	80	33-120	14	0-44	
Benzo (k) Fluoranthene	ND	100.0	75.86	76	75.54	76	23-149	0	0-44	
Benzo (a) Pyrene	ND	100.0	199.2	199	72.03	72	12-132	94	0-48	3,4
Dibenz (a,h) Anthracene	ND	100.0	196.1	196	75.54	76	29-125	89	0-43	3,4
Benzo (g,h,i) Perylene	ND	100.0	90.22	90	75.14	75	24-132	18	0-42	
Indeno (1,2,3-c,d) Pyrene	ND	100.0	87.37	87	80.69	81	29-143	8	0-42	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants	Date Received: 01/05/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0280
Irvine, CA 92602-1365	Preparation: EPA 3550B
	Method: EPA 8015B (M)
Project: Solana Torrance	Page 3 of 16

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-01-0124-1	**Sample**	**Solid**	**GC 46**	**01/09/18**	**01/09/18 19:34**	**180109S07**
18-01-0124-1	**Matrix Spike**	**Solid**	**GC 46**	**01/09/18**	**01/09/18 18:10**	**180109S07**
18-01-0124-1	**Matrix Spike Duplicate**	**Solid**	**GC 46**	**01/09/18**	**01/09/18 18:32**	**180109S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	15.10	400.0	334.9	80	328.3	78	64-130	2	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants		Date Received:	01/05/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0280
Irvine, CA 92602-1365		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: Solana Torrance			Page 4 of 16

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
KJ-03-11'	**Sample**	**Solid**	**GC 48**	**01/10/18**	**01/10/18 22:17**	**180110S07**
KJ-03-11'	**Matrix Spike**	**Solid**	**GC 48**	**01/10/18**	**01/10/18 21:36**	**180110S07**
KJ-03-11'	**Matrix Spike Duplicate**	**Solid**	**GC 48**	**01/10/18**	**01/10/18 21:56**	**180110S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	359.6	90	360.5	90	64-130	0	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants		Date Received:	01/05/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0280
Irvine, CA 92602-1365		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: Solana Torrance			Page 5 of 16

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-01-0243-11	**Sample**	**Solid**	**GC 48**	**01/12/18**	**01/15/18 14:27**	**180112S04**
18-01-0243-11	**Matrix Spike**	**Solid**	**GC 48**	**01/12/18**	**01/15/18 12:43**	**180112S04**
18-01-0243-11	**Matrix Spike Duplicate**	**Solid**	**GC 48**	**01/12/18**	**01/15/18 13:04**	**180112S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	6.723	400.0	369.0	91	359.1	88	64-130	3	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
KJ-02-25'	**Sample**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:01**	**180110S04**
KJ-02-25'	**Matrix Spike**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:02**	**180110S04**
KJ-02-25'	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:03**	**180110S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	1.368	25.00	4.366	12	3.571	9	50-115	20	0-20	3
Arsenic	28.26	25.00	51.44	93	51.77	94	75-125	1	0-20	
Barium	1568	25.00	1483	4X	1580	4X	75-125	4X	0-20	Q
Beryllium	0.7743	25.00	26.41	103	27.90	108	75-125	5	0-20	
Cadmium	1.573	25.00	28.75	109	30.03	114	75-125	4	0-20	
Chromium	50.06	25.00	75.77	103	77.31	109	75-125	2	0-20	
Cobalt	13.24	25.00	40.29	108	41.67	114	75-125	3	0-20	
Copper	29.84	25.00	58.93	116	59.64	119	75-125	1	0-20	
Lead	7.996	25.00	32.22	97	31.66	95	75-125	2	0-20	
Molybdenum	1.230	25.00	20.82	78	22.36	85	75-125	7	0-20	
Nickel	37.83	25.00	63.17	101	64.79	108	75-125	3	0-20	
Selenium	0.9087	25.00	23.27	89	27.10	105	75-125	15	0-20	
Silver	ND	12.50	13.57	109	14.23	114	75-125	5	0-20	
Thallium	ND	25.00	23.10	92	22.01	88	75-125	5	0-20	
Vanadium	101.3	25.00	126.9	4X	128.3	4X	75-125	4X	0-20	Q
Zinc	81.47	25.00	108.1	107	109.2	111	75-125	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3050B
Method: EPA 6010B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
KJ-07-19' DUP	**Sample**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:35**	**180110S05**
KJ-07-19' DUP	**Matrix Spike**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:36**	**180110S05**
KJ-07-19' DUP	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:37**	**180110S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	11.13	45	10.95	44	50-115	2	0-20	3
Arsenic	4.846	25.00	31.02	105	30.11	101	75-125	3	0-20	
Barium	458.1	25.00	459.3	4X	479.8	4X	75-125	4X	0-20	Q
Beryllium	ND	25.00	25.50	102	24.78	99	75-125	3	0-20	
Cadmium	1.025	25.00	28.70	111	28.03	108	75-125	2	0-20	
Chromium	24.38	25.00	46.93	90	46.02	87	75-125	2	0-20	
Cobalt	3.345	25.00	29.46	104	28.37	100	75-125	4	0-20	
Copper	12.90	25.00	39.43	106	38.20	101	75-125	3	0-20	
Lead	2.447	25.00	27.51	100	26.65	97	75-125	3	0-20	
Molybdenum	1.877	25.00	26.33	98	25.71	95	75-125	2	0-20	
Nickel	19.52	25.00	42.38	91	41.60	88	75-125	2	0-20	
Selenium	ND	25.00	27.27	109	25.90	104	75-125	5	0-20	
Silver	ND	12.50	13.28	106	12.97	104	75-125	2	0-20	
Thallium	ND	25.00	23.60	94	22.92	92	75-125	3	0-20	
Vanadium	38.80	25.00	63.65	99	64.49	103	75-125	1	0-20	
Zinc	35.80	25.00	58.66	91	59.32	94	75-125	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3010A Total
Method: EPA 6010B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-01-0857-1	**Sample**	**Aqueous**	**ICP 8300**	**01/15/18**	**01/15/18 18:15**	**180115SA3**
18-01-0857-1	**Matrix Spike**	**Aqueous**	**ICP 8300**	**01/15/18**	**01/15/18 18:16**	**180115SA3**
18-01-0857-1	**Matrix Spike Duplicate**	**Aqueous**	**ICP 8300**	**01/15/18**	**01/15/18 18:17**	**180115SA3**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.5000	0.4883	98	0.4943	99	72-132	1	0-10	
Arsenic	ND	0.5000	0.5465	109	0.5374	107	80-140	2	0-11	
Barium	0.06492	0.5000	0.6341	114	0.6380	115	87-123	1	0-6	
Beryllium	ND	0.5000	0.5589	112	0.5615	112	89-119	0	0-8	
Cadmium	ND	0.5000	0.5665	113	0.5738	115	82-124	1	0-7	
Chromium	ND	0.5000	0.5522	110	0.5561	111	86-122	1	0-8	
Cobalt	ND	0.5000	0.5645	113	0.5650	113	83-125	0	0-7	
Copper	ND	0.5000	0.5662	113	0.5699	114	78-126	1	0-7	
Lead	0.01529	0.5000	0.5747	112	0.5833	114	84-120	1	0-7	
Molybdenum	0.01546	0.5000	0.5766	112	0.5827	113	78-126	1	0-7	
Nickel	ND	0.5000	0.5273	105	0.5370	107	84-120	2	0-7	
Selenium	ND	0.5000	0.5468	109	0.5470	109	79-127	0	0-9	
Silver	ND	0.2500	0.2683	107	0.2696	108	86-128	0	0-7	
Thallium	ND	0.5000	0.5624	112	0.5747	115	79-121	2	0-8	
Vanadium	ND	0.5000	0.5437	109	0.5482	110	88-118	1	0-7	
Zinc	0.1538	0.5000	0.7202	113	0.7271	115	89-131	1	0-8	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants	Date Received:	01/05/18
3210 El Camino Real, Suite 150	Work Order:	18-01-0280
Irvine, CA 92602-1365	Preparation:	EPA 7470A Total
	Method:	EPA 7470A
Project: Solana Torrance		Page 9 of 16

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-01-0399-1	**Sample**	**Aqueous**	**Mercury 07**	**01/12/18**	**01/15/18 13:49**	**180112SA1**
18-01-0399-1	**Matrix Spike**	**Aqueous**	**Mercury 07**	**01/12/18**	**01/15/18 13:52**	**180112SA1**
18-01-0399-1	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 07**	**01/12/18**	**01/15/18 13:59**	**180112SA1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.01128	113	0.01113	111	55-133	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 7471A Total
Method: EPA 7471A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
17-10-0537-1	**Sample**	**Sediment**	**Mercury 07**	**01/09/18**	**01/09/18 17:28**	**180109S02**
17-10-0537-1	**Matrix Spike**	**Sediment**	**Mercury 07**	**01/09/18**	**01/09/18 17:30**	**180109S02**
17-10-0537-1	**Matrix Spike Duplicate**	**Sediment**	**Mercury 07**	**01/09/18**	**01/09/18 17:32**	**180109S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	1.046	0.8350	1.826	93	1.744	84	76-136	5	0-16	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants	Date Received: 01/05/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0280
Irvine, CA 92602-1365	Preparation: EPA 7471A Total
	Method: EPA 7471A
Project: Solana Torrance	Page 11 of 16

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
KJ-02-25'	**Sample**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 15:51**	**180111S02**
KJ-02-25'	**Matrix Spike**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 15:54**	**180111S02**
KJ-02-25'	**Matrix Spike Duplicate**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 15:56**	**180111S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	0.1680	0.8350	0.9098	89	0.9336	92	71-137	3	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants	Date Received: 01/05/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0280
Irvine, CA 92602-1365	Preparation: EPA 3545
	Method: EPA 8081A
Project: Solana Torrance	Page 12 of 16

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
KJ-08-5'	**Sample**	**Solid**	**GC 44**	**01/08/18**	**01/10/18 19:09**	**180108S05**
KJ-08-5'	**Matrix Spike**	**Solid**	**GC 44**	**01/08/18**	**01/10/18 18:12**	**180108S05**
KJ-08-5'	**Matrix Spike Duplicate**	**Solid**	**GC 44**	**01/08/18**	**01/10/18 18:27**	**180108S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	21.12	84	21.82	87	50-135	3	0-25	
Alpha-BHC	ND	25.00	20.96	84	21.64	87	50-135	3	0-25	
Beta-BHC	ND	25.00	20.83	83	21.70	87	50-135	4	0-25	
4,4'-DDD	ND	25.00	22.17	89	22.98	92	50-135	4	0-25	
4,4'-DDE	ND	25.00	22.32	89	23.20	93	50-135	4	0-25	
4,4'-DDT	ND	25.00	25.00	100	25.86	103	50-135	3	0-25	
Delta-BHC	ND	25.00	21.81	87	22.68	91	50-135	4	0-25	
Dieldrin	ND	25.00	21.98	88	22.69	91	50-135	3	0-25	
Endosulfan I	ND	25.00	22.70	91	23.44	94	50-135	3	0-25	
Endosulfan II	ND	25.00	24.76	99	25.51	102	50-135	3	0-25	
Endosulfan Sulfate	ND	25.00	20.80	83	21.46	86	50-135	3	0-25	
Endrin	ND	25.00	25.37	101	26.26	105	50-135	3	0-25	
Endrin Aldehyde	ND	25.00	20.69	83	21.26	85	50-135	3	0-25	
Gamma-BHC	ND	25.00	21.21	85	21.94	88	50-135	3	0-25	
Heptachlor	ND	25.00	22.78	91	23.58	94	50-135	3	0-25	
Heptachlor Epoxide	ND	25.00	20.46	82	21.14	85	50-135	3	0-25	
Methoxychlor	ND	25.00	24.08	96	24.68	99	50-135	3	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants		Date Received:	01/05/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0280
Irvine, CA 92602-1365		Preparation:	EPA 3545
		Method:	EPA 8082
Project: Solana Torrance			Page 13 of 16

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
KJ-08-5'	**Sample**	**Solid**	**GC 58**	**01/08/18**	**01/09/18 16:36**	**180108S06**
KJ-08-5'	**Matrix Spike**	**Solid**	**GC 58**	**01/08/18**	**01/09/18 16:00**	**180108S06**
KJ-08-5'	**Matrix Spike Duplicate**	**Solid**	**GC 58**	**01/08/18**	**01/09/18 16:18**	**180108S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	90.00	90	89.00	89	50-135	1	0-20	
Aroclor-1260	ND	100.0	85.00	85	86.00	86	50-135	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8141A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
KJ-08-5'	**Sample**	**Solid**	**GC 68**	**01/08/18**	**01/12/18 03:40**	**180108S08**
KJ-08-5'	**Matrix Spike**	**Solid**	**GC 68**	**01/08/18**	**01/12/18 14:44**	**180108S08**
KJ-08-5'	**Matrix Spike Duplicate**	**Solid**	**GC 68**	**01/08/18**	**01/12/18 15:32**	**180108S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	ND	4.000	3.072	77	3.279	82	30-130	7	0-30	
Bolstar	ND	4.000	3.273	82	3.273	82	30-130	0	0-30	
Chlorpyrifos	ND	4.000	2.553	64	2.685	67	30-130	5	0-30	
Coumaphos	ND	4.000	2.957	74	2.992	75	30-130	1	0-30	
Diazinon	ND	4.000	2.696	67	3.064	77	30-130	13	0-30	
Disulfoton	ND	4.000	2.911	73	3.063	77	30-130	5	0-30	
Ethoprop	ND	4.000	2.604	65	2.706	68	30-130	4	0-30	
Fensulfothion	ND	4.000	3.504	88	3.781	95	30-130	8	0-30	
Fenthion	ND	4.000	2.863	72	3.008	75	30-130	5	0-30	
Merphos	ND	4.000	3.024	76	3.037	76	30-130	0	0-30	
Methyl Parathion	ND	4.000	3.166	79	3.464	87	30-130	9	0-30	
Phorate	ND	4.000	3.380	84	3.466	87	30-130	3	0-30	
Ronnel	ND	4.000	2.652	66	2.717	68	30-130	2	0-30	
Stirophos	ND	4.000	2.958	74	3.126	78	30-130	6	0-30	
Tokuthion	ND	4.000	2.902	73	3.035	76	30-130	4	0-30	
Trichloronate	ND	4.000	2.530	63	2.749	69	30-130	8	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants		Date Received:	01/05/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0280
Irvine, CA 92602-1365		Preparation:	EPA 8151A
		Method:	EPA 8151A
Project: Solana Torrance			Page 15 of 16

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-01-0175-24	**Sample**	**Solid**	**GC 40**	**01/12/18**	**01/16/18 06:44**	**180112S10**
18-01-0175-24	**Matrix Spike**	**Solid**	**GC 40**	**01/12/18**	**01/16/18 05:12**	**180112S10**
18-01-0175-24	**Matrix Spike Duplicate**	**Solid**	**GC 40**	**01/12/18**	**01/16/18 05:35**	**180112S10**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	ND	400.0	427.0	107	411.0	103	32-146	4	0-37	
2,4,5-T	ND	40.00	32.00	80	33.00	82	27-147	3	0-37	
2,4-DB	ND	400.0	501.0	125	453.0	113	31-151	10	0-42	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
KJ-10-10'	**Sample**	**Solid**	**GC/MS CCC**	**01/08/18**	**01/09/18 19:21**	**180108S07**
KJ-10-10'	**Matrix Spike**	**Solid**	**GC/MS CCC**	**01/08/18**	**01/09/18 19:58**	**180108S07**
KJ-10-10'	**Matrix Spike Duplicate**	**Solid**	**GC/MS CCC**	**01/08/18**	**01/09/18 20:16**	**180108S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acenaphthene	ND	10.00	7.767	78	7.966	80	34-148	3	0-20	
Acenaphthylene	ND	10.00	7.236	72	7.377	74	53-120	2	0-20	
Butyl Benzyl Phthalate	ND	10.00	8.394	84	8.686	87	15-189	3	0-20	
4-Chloro-3-Methylphenol	ND	10.00	8.398	84	8.694	87	32-120	3	0-20	
2-Chlorophenol	ND	10.00	8.277	83	8.340	83	53-120	1	0-20	
1,4-Dichlorobenzene	ND	10.00	7.315	73	7.321	73	43-120	0	0-26	
Dimethyl Phthalate	0.5421	10.00	8.250	77	8.588	80	44-122	4	0-20	
2,4-Dinitrotoluene	ND	10.00	8.182	82	8.482	85	28-120	4	0-20	
Fluorene	ND	10.00	7.256	73	7.402	74	12-186	2	0-20	
N-Nitroso-di-n-propylamine	ND	10.00	7.829	78	7.692	77	38-140	2	0-20	
Naphthalene	ND	10.00	7.557	76	7.686	77	20-140	2	0-20	
4-Nitrophenol	ND	10.00	8.461	85	8.631	86	14-128	2	0-59	
Pentachlorophenol	ND	10.00	6.319	63	6.545	65	10-124	4	0-20	
Phenol	ND	10.00	7.871	79	8.020	80	22-124	2	0-20	
Pyrene	ND	10.00	8.959	90	9.091	91	31-169	1	0-20	
1,2,4-Trichlorobenzene	ND	10.00	7.790	78	8.077	81	56-120	4	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Kennedy/Jenks Consultants	Date Received: 01/05/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0280
Irvine, CA 92602-1365	Preparation: N/A
	Method: EPA 9045C
Project: Solana Torrance	Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
KJ-07-15'	**Sample**	**Solid**	**PH 4**	**01/05/18 00:00**	**01/05/18 20:00**	**I0105PHD3**
KJ-07-15'	**Sample Duplicate**	**Solid**	**PH 4**	**01/05/18 00:00**	**01/05/18 20:00**	**I0105PHD3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	7.840	7.850	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Kennedy/Jenks Consultants	Date Received: 01/05/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0280
Irvine, CA 92602-1365	Preparation: N/A
	Method: SM 4500 H+ B
Project: Solana Torrance	Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
18-01-0231-1	**Sample**	**Aqueous**	**PH 1**	**N/A**	**01/05/18 20:00**	**I0105PHD1**
18-01-0231-1	**Sample Duplicate**	**Aqueous**	**PH 1**	**N/A**	**01/05/18 20:00**	**I0105PHD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	6.810	6.720	1	0-25	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants	Date Received: 01/05/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0280
Irvine, CA 92602-1365	Preparation: EPA 3060A
	Method: EPA 7199
Project: Solana Torrance	Page 1 of 23

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-05-125-3204	**LCS**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 12:57**	**180106L01P**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Chromium, Hexavalent	20000	17390	87	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3510C
Method: EPA 8310

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-003-2029	**LCS**	**Aqueous**	**HPLC 5**	**01/08/18**	**01/10/18 18:12**	**180108L02**
099-07-003-2029	**LCSD**	**Aqueous**	**HPLC 5**	**01/08/18**	**01/10/18 18:45**	**180108L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Naphthalene	2.000	1.506	75	1.440	72	36-144	18-162	4	0-25	
Acenaphthylene	2.000	1.449	72	1.469	73	51-120	40-132	1	0-23	
Acenaphthene	2.000	1.406	70	1.409	70	44-120	31-133	0	0-20	
Fluorene	2.000	1.448	72	1.473	74	52-120	41-131	2	0-21	
Phenanthrene	2.000	1.483	74	1.509	75	58-120	48-130	2	0-21	
Anthracene	2.000	1.423	71	1.429	71	52-120	41-131	0	0-20	
Fluoranthene	2.000	1.503	75	1.519	76	57-120	46-130	1	0-20	
Pyrene	2.000	1.612	81	1.626	81	55-121	44-132	1	0-22	
Benzo (a) Anthracene	2.000	1.454	73	1.454	73	58-120	48-130	0	0-23	
Chrysene	2.000	1.488	74	1.484	74	58-120	48-130	0	0-20	
Benzo (b) Fluoranthene	2.000	1.422	71	1.413	71	55-121	44-132	1	0-23	
Benzo (k) Fluoranthene	2.000	1.494	75	1.418	71	56-122	45-133	5	0-22	
Benzo (a) Pyrene	2.000	1.359	68	1.333	67	43-120	30-133	2	0-24	
Dibenz (a,h) Anthracene	2.000	1.387	69	1.326	66	55-121	44-132	5	0-24	
Benzo (g,h,i) Perylene	2.000	1.533	77	1.515	76	58-120	48-130	1	0-23	
Indeno (1,2,3-c,d) Pyrene	2.000	1.435	72	1.445	72	63-123	53-133	1	0-21	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants		Date Received:	01/05/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0280
Irvine, CA 92602-1365		Preparation:	EPA 3545
		Method:	EPA 8310
Project: Solana Torrance			Page 3 of 23

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-07-002-1932	**LCS**	**Solid**	**HPLC 5**	**01/08/18**	**01/11/18 21:17**	**180108L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Naphthalene	100.0	98.55	99	17-203	0-234	
Acenaphthylene	100.0	95.03	95	50-120	38-132	
Acenaphthene	100.0	87.94	88	41-120	28-133	
Fluorene	100.0	93.72	94	51-120	40-132	
Phenanthrene	100.0	95.24	95	56-120	45-131	
Anthracene	100.0	92.52	93	49-120	37-132	
Fluoranthene	100.0	101.4	101	60-120	50-130	
Pyrene	100.0	105.7	106	61-121	51-131	
Benzo (a) Anthracene	100.0	98.13	98	61-121	51-131	
Chrysene	100.0	101.9	102	61-121	51-131	
Benzo (b) Fluoranthene	100.0	98.61	99	61-121	51-131	
Benzo (k) Fluoranthene	100.0	96.48	96	57-129	45-141	
Benzo (a) Pyrene	100.0	102.8	103	43-120	30-133	
Dibenz (a,h) Anthracene	100.0	95.44	95	59-125	48-136	
Benzo (g,h,i) Perylene	100.0	107.2	107	57-123	46-134	
Indeno (1,2,3-c,d) Pyrene	100.0	98.38	98	64-130	53-141	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3510C
Method: EPA 8015B (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-472-714	**LCS**	**Aqueous**	**GC 47**	**01/08/18**	**01/09/18 18:27**	**180108B03A**
099-15-472-714	**LCSD**	**Aqueous**	**GC 47**	**01/08/18**	**01/09/18 18:48**	**180108B03A**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	1774	89	1827	91	69-123	3	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants	Date Received: 01/05/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0280
Irvine, CA 92602-1365	Preparation: EPA 3550B
	Method: EPA 8015B (M)
Project: Solana Torrance	Page 5 of 23

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-490-2954	**LCS**	**Solid**	**GC 46**	**01/09/18**	**01/09/18 17:28**	**180109B07A**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	312.0	78	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants	Date Received: 01/05/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0280
Irvine, CA 92602-1365	Preparation: EPA 3550B
	Method: EPA 8015B (M)
Project: Solana Torrance	Page 6 of 23

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-490-2960	**LCS**	**Solid**	**GC 48**	**01/10/18**	**01/10/18 21:14**	**180110B07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	325.3	81	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants	Date Received: 01/05/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0280
Irvine, CA 92602-1365	Preparation: EPA 3550B
	Method: EPA 8015B (M)
Project: Solana Torrance	Page 7 of 23

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-490-2961	**LCS**	**Solid**	**GC 48**	**01/12/18**	**01/15/18 12:01**	**180112B04A**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	350.6	88	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants		Date Received:	01/05/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0280
Irvine, CA 92602-1365		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Solana Torrance			Page 8 of 23

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-25788	**LCS**	**Solid**	**ICP 8300**	**01/10/18**	**01/15/18 15:00**	**180110L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	20.72	83	80-120	73-127	
Arsenic	25.00	21.35	85	80-120	73-127	
Barium	25.00	24.79	99	80-120	73-127	
Beryllium	25.00	22.73	91	80-120	73-127	
Cadmium	25.00	23.80	95	80-120	73-127	
Chromium	25.00	23.54	94	80-120	73-127	
Cobalt	25.00	24.33	97	80-120	73-127	
Copper	25.00	23.66	95	80-120	73-127	
Lead	25.00	23.69	95	80-120	73-127	
Molybdenum	25.00	23.33	93	80-120	73-127	
Nickel	25.00	22.75	91	80-120	73-127	
Selenium	25.00	22.49	90	80-120	73-127	
Silver	12.50	11.41	91	80-120	73-127	
Thallium	25.00	24.26	97	80-120	73-127	
Vanadium	25.00	22.83	91	80-120	73-127	
Zinc	25.00	25.01	100	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants		Date Received:	01/05/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0280
Irvine, CA 92602-1365		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Solana Torrance			Page 9 of 23

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-25785	**LCS**	**Solid**	**ICP 8300**	**01/10/18**	**01/12/18 20:55**	**180110L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	24.01	96	80-120	73-127	
Arsenic	25.00	23.37	93	80-120	73-127	
Barium	25.00	26.50	106	80-120	73-127	
Beryllium	25.00	23.84	95	80-120	73-127	
Cadmium	25.00	25.51	102	80-120	73-127	
Chromium	25.00	25.63	103	80-120	73-127	
Cobalt	25.00	25.71	103	80-120	73-127	
Copper	25.00	25.33	101	80-120	73-127	
Lead	25.00	25.76	103	80-120	73-127	
Molybdenum	25.00	25.58	102	80-120	73-127	
Nickel	25.00	24.41	98	80-120	73-127	
Selenium	25.00	23.62	94	80-120	73-127	
Silver	12.50	12.11	97	80-120	73-127	
Thallium	25.00	25.27	101	80-120	73-127	
Vanadium	25.00	24.83	99	80-120	73-127	
Zinc	25.00	26.88	108	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants		Date Received:	01/05/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0280
Irvine, CA 92602-1365		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
Project: Solana Torrance			Page 10 of 23

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-003-16747	**LCS**	**Aqueous**	**ICP 8300**	**01/15/18**	**01/15/18 18:14**	**180115LA3**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.5000	0.4812	96	80-120	73-127	
Arsenic	0.5000	0.4697	94	80-120	73-127	
Barium	0.5000	0.5344	107	80-120	73-127	
Beryllium	0.5000	0.4889	98	80-120	73-127	
Cadmium	0.5000	0.5181	104	80-120	73-127	
Chromium	0.5000	0.5081	102	80-120	73-127	
Cobalt	0.5000	0.5229	105	80-120	73-127	
Copper	0.5000	0.5110	102	80-120	73-127	
Lead	0.5000	0.5208	104	80-120	73-127	
Molybdenum	0.5000	0.5146	103	80-120	73-127	
Nickel	0.5000	0.4908	98	80-120	73-127	
Selenium	0.5000	0.4828	97	80-120	73-127	
Silver	0.2500	0.2440	98	80-120	73-127	
Thallium	0.5000	0.5249	105	80-120	73-127	
Vanadium	0.5000	0.4956	99	80-120	73-127	
Zinc	0.5000	0.5017	100	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants	Date Received: 01/05/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0280
Irvine, CA 92602-1365	Preparation: EPA 7470A Total
	Method: EPA 7470A
Project: Solana Torrance	Page 11 of 23

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-04-008-8443	**LCS**	**Aqueous**	**Mercury 07**	**01/12/18**	**01/15/18 13:47**	**180112LA1**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.01000	0.01079	108	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants	Date Received: 01/05/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0280
Irvine, CA 92602-1365	Preparation: EPA 7471A Total
	Method: EPA 7471A
Project: Solana Torrance	Page 12 of 23

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-3575	**LCS**	**Solid**	**Mercury 07**	**01/09/18**	**01/10/18 17:19**	**180109L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7869	94	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants	Date Received: 01/05/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0280
Irvine, CA 92602-1365	Preparation: EPA 7471A Total
	Method: EPA 7471A
Project: Solana Torrance	Page 13 of 23

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-3580	**LCS**	**Solid**	**Mercury 07**	**01/11/18**	**01/11/18 15:49**	**180111L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7896	95	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants		Date Received:	01/05/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0280
Irvine, CA 92602-1365		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Solana Torrance			Page 14 of 23

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-2868	**LCS**	**Solid**	**GC 44**	**01/08/18**	**01/10/18 17:58**	**180108L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	23.13	93	50-135	36-149	
Alpha-BHC	25.00	23.55	94	50-135	36-149	
Beta-BHC	25.00	22.53	90	50-135	36-149	
4,4'-DDD	25.00	23.58	94	50-135	36-149	
4,4'-DDE	25.00	24.30	97	50-135	36-149	
4,4'-DDT	25.00	26.26	105	50-135	36-149	
Delta-BHC	25.00	23.48	94	50-135	36-149	
Dieldrin	25.00	24.12	96	50-135	36-149	
Endosulfan I	25.00	25.18	101	50-135	36-149	
Endosulfan II	25.00	26.83	107	50-135	36-149	
Endosulfan Sulfate	25.00	21.91	88	50-135	36-149	
Endrin	25.00	27.34	109	50-135	36-149	
Endrin Aldehyde	25.00	21.77	87	50-135	36-149	
Gamma-BHC	25.00	23.62	94	50-135	36-149	
Heptachlor	25.00	25.26	101	50-135	36-149	
Heptachlor Epoxide	25.00	23.17	93	50-135	36-149	
Methoxychlor	25.00	25.20	101	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3510C
Method: EPA 8081A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-1001	**LCS**	**Aqueous**	**GC 44**	**01/09/18**	**01/12/18 09:16**	**180109L05B**
099-12-529-1001	**LCSD**	**Aqueous**	**GC 44**	**01/09/18**	**01/12/18 09:30**	**180109L05B**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.5000	0.4577	92	0.4576	92	50-135	36-149	0	0-25	
Gamma-BHC	0.5000	0.4638	93	0.4617	92	50-135	36-149	0	0-25	
Beta-BHC	0.5000	0.4503	90	0.4488	90	50-135	36-149	0	0-25	
Heptachlor	0.5000	0.4915	98	0.5153	103	50-135	36-149	5	0-25	
Delta-BHC	0.5000	0.4949	99	0.4945	99	50-135	36-149	0	0-25	
Aldrin	0.5000	0.4182	84	0.4225	84	50-135	36-149	1	0-25	
Heptachlor Epoxide	0.5000	0.4465	89	0.4550	91	50-135	36-149	2	0-25	
Endosulfan I	0.5000	0.4937	99	0.4930	99	50-135	36-149	0	0-25	
Dieldrin	0.5000	0.4822	96	0.4820	96	50-135	36-149	0	0-25	
4,4'-DDE	0.5000	0.4662	93	0.4662	93	50-135	36-149	0	0-25	
Endrin	0.5000	0.4711	94	0.4814	96	50-135	36-149	2	0-25	
Endrin Aldehyde	0.5000	0.4711	94	0.4869	97	50-135	36-149	3	0-25	
4,4'-DDD	0.5000	0.4731	95	0.4802	96	50-135	36-149	1	0-25	
Endosulfan II	0.5000	0.5244	105	0.5296	106	50-135	36-149	1	0-25	
4,4'-DDT	0.5000	0.5047	101	0.5071	101	50-135	36-149	0	0-25	
Endosulfan Sulfate	0.5000	0.4441	89	0.4455	89	50-135	36-149	0	0-25	
Methoxychlor	0.5000	0.4829	97	0.4913	98	50-135	36-149	2	0-25	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants	Date Received: 01/05/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0280
Irvine, CA 92602-1365	Preparation: EPA 3545
	Method: EPA 8082
Project: Solana Torrance	Page 16 of 23

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-4506	**LCS**	**Solid**	**GC 58**	**01/08/18**	**01/09/18 15:41**	**180108L06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	97.00	97	50-135	
Aroclor-1260	100.0	89.00	89	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3510C
Method: EPA 8082

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-1356	**LCS**	**Aqueous**	**GC 58**	**01/09/18**	**01/11/18 14:36**	**180109L05H**
099-12-533-1356	**LCSD**	**Aqueous**	**GC 58**	**01/09/18**	**01/11/18 14:54**	**180109L05H**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2.000	1.870	94	1.880	94	50-135	1	0-25	
Aroclor-1260	2.000	1.650	82	1.710	86	50-135	4	0-25	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3510C
Method: EPA 8141A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-963-225	**LCS**	**Aqueous**	**GC 68**	**01/10/18**	**01/12/18 12:21**	**180110L10**
099-15-963-225	**LCSD**	**Aqueous**	**GC 68**	**01/10/18**	**01/12/18 13:09**	**180110L10**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	0.04000	0.02740	68	0.02297	57	30-130	13-147	18	0-30	
Bolstar	0.04000	0.02957	74	0.02533	63	30-130	13-147	15	0-30	
Chlorpyrifos	0.04000	0.02602	65	0.02165	54	30-130	13-147	18	0-30	
Coumaphos	0.04000	0.02644	66	0.02247	56	30-130	13-147	16	0-30	
Diazinon	0.04000	0.03225	81	0.02463	62	30-130	13-147	27	0-30	
Disulfoton	0.04000	0.03109	78	0.02595	65	30-130	13-147	18	0-30	
Ethoprop	0.04000	0.02886	72	0.02381	60	30-130	13-147	19	0-30	
Fensulfothion	0.04000	0.03038	76	0.02523	63	30-130	13-147	19	0-30	
Fenthion	0.04000	0.02795	70	0.02385	60	30-130	13-147	16	0-30	
Merphos	0.04000	0.02873	72	0.02261	57	30-130	13-147	24	0-30	
Methyl Parathion	0.04000	0.03063	77	0.02670	67	30-130	13-147	14	0-30	
Phorate	0.04000	0.03440	86	0.02883	72	30-130	13-147	18	0-30	
Ronnel	0.04000	0.02572	64	0.02150	54	30-130	13-147	18	0-30	
Stirophos	0.04000	0.02691	67	0.02311	58	30-130	13-147	15	0-30	
Tokuthion	0.04000	0.02762	69	0.02352	59	30-130	13-147	16	0-30	
Trichloronate	0.04000	0.02630	66	0.02023	51	30-130	13-147	26	0-30	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants	Date Received: 01/05/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0280
Irvine, CA 92602-1365	Preparation: EPA 3545
	Method: EPA 8141A
Project: Solana Torrance	Page 19 of 23

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-973-359	**LCS**	**Solid**	**GC 68**	**01/08/18**	**01/12/18 13:57**	**180108L08**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Azinphos Methyl	4.000	4.931	123	30-130	13-147	
Bolstar	4.000	4.685	117	30-130	13-147	
Chlorpyrifos	4.000	4.047	101	30-130	13-147	
Coumaphos	4.000	4.590	115	30-130	13-147	
Diazinon	4.000	4.518	113	30-130	13-147	
Disulfoton	4.000	4.687	117	30-130	13-147	
Ethoprop	4.000	4.334	108	30-130	13-147	
Fensulfothion	4.000	5.200	130	30-130	13-147	
Fenthion	4.000	4.633	116	30-130	13-147	
Merphos	4.000	4.480	112	30-130	13-147	
Methyl Parathion	4.000	5.096	127	30-130	13-147	
Phorate	4.000	5.310	133	30-130	13-147	ME
Ronnel	4.000	4.073	102	30-130	13-147	
Stirophos	4.000	4.626	116	30-130	13-147	
Tokuthion	4.000	4.404	110	30-130	13-147	
Trichloronate	4.000	4.183	105	30-130	13-147	

Total number of LCS compounds: 16
Total number of ME compounds: 1
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants	Date Received: 01/05/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0280
Irvine, CA 92602-1365	Preparation: EPA 8151A
	Method: EPA 8151A
Project: Solana Torrance	Page 20 of 23

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
095-01-033-1539	**LCS**	**Solid**	**GC 40**	**01/12/18**	**01/16/18 00:12**	**180112L10**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
2,4-D	400.0	365.0	91	49-127	
2,4,5-T	40.00	36.00	90	31-145	
2,4-DB	400.0	372.0	93	48-132	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 8151A
Method: EPA 8151A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-034-784	**LCS**	**Aqueous**	**GC 40**	**01/10/18**	**01/15/18 14:59**	**180110L05**
095-01-034-784	**LCSD**	**Aqueous**	**GC 40**	**01/10/18**	**01/15/18 15:22**	**180110L05**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	20.00	21.50	108	21.70	108	46-142	1	0-25	
2,4,5-T	2.000	2.050	102	2.100	105	45-153	2	0-28	
2,4-DB	20.00	22.20	111	22.25	111	44-146	0	0-28	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3510C
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-4497	**LCS**	**Aqueous**	**GC/MS SS**	**01/10/18**	**01/11/18 11:41**	**180110L11A**
095-01-003-4497	**LCSD**	**Aqueous**	**GC/MS SS**	**01/10/18**	**01/11/18 12:02**	**180110L11A**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acenaphthene	200.0	156.5	78	149.5	75	61-120	51-130	5	0-20	
Acenaphthylene	200.0	157.9	79	149.9	75	55-120	44-131	5	0-20	
Butyl Benzyl Phthalate	200.0	171.2	86	165.0	83	56-122	45-133	4	0-20	
4-Chloro-3-Methylphenol	200.0	155.1	78	152.8	76	52-120	41-131	2	0-20	
2-Chlorophenol	200.0	141.5	71	135.2	68	47-120	35-132	5	0-20	
1,4-Dichlorobenzene	200.0	141.7	71	137.1	69	36-120	22-134	3	0-20	
Dimethyl Phthalate	200.0	152.5	76	145.5	73	60-120	50-130	5	0-20	
2,4-Dinitrotoluene	200.0	175.9	88	168.8	84	61-121	51-131	4	0-20	
Fluorene	200.0	157.6	79	153.6	77	67-120	58-129	3	0-20	
N-Nitroso-di-n-propylamine	200.0	140.5	70	138.5	69	39-123	25-137	1	0-20	
Naphthalene	200.0	153.7	77	148.0	74	54-120	43-131	4	0-20	
4-Nitrophenol	200.0	44.59	22	41.39	21	14-120	0-138	7	0-20	
Pentachlorophenol	200.0	87.06	44	82.47	41	31-127	15-143	5	0-20	
Phenol	200.0	68.03	34	65.21	33	17-120	0-137	4	0-20	
Pyrene	200.0	171.1	86	165.9	83	58-124	47-135	3	0-20	
1,2,4-Trichlorobenzene	200.0	154.9	77	149.6	75	49-120	37-132	3	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants		Date Received:	01/05/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0280
Irvine, CA 92602-1365		Preparation:	EPA 3545
		Method:	EPA 8270C
Project: Solana Torrance			Page 23 of 23

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-549-4089	**LCS**	**Solid**	**GC/MS CCC**	**01/08/18**	**01/09/18 15:38**	**180108L07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acenaphthene	10.00	8.162	82	51-123	39-135	
Acenaphthylene	10.00	7.903	79	52-120	41-131	
Butyl Benzyl Phthalate	10.00	8.693	87	43-139	27-155	
4-Chloro-3-Methylphenol	10.00	8.295	83	55-121	44-132	
2-Chlorophenol	10.00	8.521	85	58-124	47-135	
1,4-Dichlorobenzene	10.00	7.928	79	42-132	27-147	
Dimethyl Phthalate	10.00	8.653	87	51-123	39-135	
2,4-Dinitrotoluene	10.00	9.010	90	51-129	38-142	
Fluorene	10.00	7.919	79	54-126	42-138	
N-Nitroso-di-n-propylamine	10.00	7.995	80	40-136	24-152	
Naphthalene	10.00	8.604	86	32-146	13-165	
4-Nitrophenol	10.00	7.952	80	24-126	7-143	
Pentachlorophenol	10.00	5.804	58	23-131	5-149	
Phenol	10.00	7.942	79	40-130	25-145	
Pyrene	10.00	8.245	82	47-143	31-159	
1,2,4-Trichlorobenzene	10.00	8.724	87	45-129	31-143	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 18-01-0280 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3010A Total	598	ICP 8300	1
EPA 6010B	EPA 3050B	598	ICP 8300	1
EPA 6010B	EPA 3050B	935	ICP 8300	1
EPA 7199	EPA 3060A	834	IC 11	1
EPA 7470A	EPA 7470A Total	868	Mercury 07	1
EPA 7471A	EPA 7471A Total	868	Mercury 07	1
EPA 8015B (M)	EPA 3510C	682	GC 47	1
EPA 8015B (M)	EPA 3550B	682	GC 46	1
EPA 8015B (M)	EPA 3550B	972	GC 48	1
EPA 8081A	EPA 3545	669	GC 44	1
EPA 8081A	EPA 3510C	669	GC 44	1
EPA 8082	EPA 3545	1028	GC 58	1
EPA 8082	EPA 3510C	1028	GC 58	1
EPA 8141A	EPA 3545	421	GC 68	1
EPA 8141A	EPA 3545	1096	GC 68	1
EPA 8141A	EPA 3510C	1096	GC 68	1
EPA 8151A	EPA 8151A	1096	GC 40	1
EPA 8270C	EPA 3545	923	GC/MS SS	1
EPA 8270C	EPA 3545	923	GC/MS CCC	1
EPA 8270C	EPA 3510C	923	GC/MS SS	1
EPA 8310	EPA 3545	684	HPLC 5	1
EPA 8310	EPA 3510C	684	HPLC 5	1
EPA 9045C	N/A	1139	PH 4	1
SM 4500 H+ B	N/A	1139	PH 1	1

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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

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Glossary of Terms and Qualifiers

Work Order: 18-01-0280 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY: **18-01-0280**

Date 01/05/18
Page 1 of 3

LABORATORY CLIENT: Kennedy Jenks
ADDRESS: 3210 El Camino Real Suite 150
CITY: Irvine STATE: CA ZIP:
TEL: E-MAIL: wesellis@kennedyjenks.com

CLIENT PROJECT NAME / NO.: Solana Torrance
PROJECT CONTACT: Ryan Strandberg
GLOBAL ID: LOG CODE:

P.O. NO.: 1583018*01
LAB CONTACT OR QUOTE NO:
SAMPLER(S): (PRINT) Wes Ellis

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
For Title 22 include lead in analyses
KJ-07-15' → Homogenize and dupliate
KJ-07-19' → Homogenize and duplicate

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☑ C6-C36 ☑ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM 8310	T22 Metals ☑ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☑ 7199 ☐ 218.6	Organophosphorus Pesticides 8141A	Chlorinated Herbicides 8151A	Asbestos OSHA Method 10-191	pH
1	KJ-07-15'	01/04/18	1357	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	KJ-07-19'	"	1418	Soil	1						✓										✓					
3	KJ-03-11'	"	1605	Soil	1						✓										✓					
4	KJ-03-5'	"	1558	Soil	1						✓										✓					
5	KJ-09-14.5'	"	1445	Soil	1																				✓	
6	KJ-09-15.5'	"	1445	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓		✓
7	KJ-09-25'	"	1459	Soil	1						✓										✓					
8	KJ-04-1.5'	01/03/18	1319	Soil	1																				✓	
9	KJ-04-2.5'	"	"	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓		✓
10	KJ-04-10'	"	1325	Soil	1						✓										✓					

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		1/5/18	1610
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN-OF-CUSTODY RECORD

Date 01/05/18
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WO NO. / LAB USE ONLY: 18-01-0280

LABORATORY CLIENT: Kennedy Jenks
ADDRESS: 3210 El Camino Real Suite 150
CITY: Irvine STATE: CA ZIP:
TEL: 812 893 0450 E-MAIL: wes ellis@kenedyjenks.com

CLIENT PROJECT NAME / NO.: Solana Torrance
PROJECT CONTACT: Ryan Strandberg
GLOBAL ID: LOG CODE:

P.O. NO.: 1583018*01
LAB CONTACT OR QUOTE NO:
SAMPLER(S): (PRINT) Wes Ellis

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
For Title 22 include lead in analyses

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☒ C6-C36 ☒ C6-C44	TPH _____	BTEX / MTBE ☐ 8260 ☐ _____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM 8310	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☒ 7199 ☐ 218.6	Organophosphorus Pesticides 8141A	Chlorinated Herbicides 8151A	Asbestos OSHA Method ID-191	H
11	KJ-01-4.5'	01/04/18	0815	Soil	1																			✓	
12	KJ-01-5.5'	01/04/18	0815	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓	✓
13	KJ-01-15'	01/04/18	0821	Soil	1						✓										✓				
14	KJ-02-4.5'	"	1045	Soil	1																			✓	
15	KJ-02-5.5'	"	1045	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓	✓
16	KJ-02-25'	"	1100	Soil	1						✓										✓				
17	KJ-05-4'	"	1340	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓	✓
18	KJ-05-4.5'	"	1343	Soil	1																			✓	
19	KJ-05-10'	"	1355	Soil	1						✓												✓		
20	KJ-06-4.5'	01/03/18	0960	Soil	1																			✓	

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 1/5/18	Time: 1610
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY: 18-01-0280

Date 01/05/18

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LABORATORY CLIENT: Kennedy Jenks

ADDRESS: 3210 El Camino Real Suite 150

CITY: Irvine STATE: CA ZIP:

TEL: 82 893 0450 E-MAIL: wesellis@kennedyjenks.com

CLIENT PROJECT NAME / NO.: Solana Torrance

PROJECT CONTACT: Ryan Strandberg

GLOBAL ID: LOG CODE:

P.O. NO.: 1583018 *01

LAB CONTACT OR QUOTE NO:

SAMPLER(S): (PRINT) Wes Ellis

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD

☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

For Title 22 include lead in analyses.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☒ C6-C36 ☒ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM 8310	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☒ 7199 ☐ 218.6	Organophosphorus Pesticides 8141A	Chlorinated Herbicides 8151A	Asbestos OSHA Method ID-191	pH
21	KJ-06-5.5'	01/03/18	0950	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓		✓
22	KJ-06-10'	01/03/18	1000	Soil	1						✓										✓					
23	KJ-08-5'	01/04/18	1537	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24	KJ-08-15'	01/04/18	1545	Soil	1						✓										✓					
25	KJ-10-10'	01/03/18	1125	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
26	KJ-10-15'	01/03/18	1132	Soil	1						✓										✓					
27	EB-1	01/03/18	1030	Water	7						✓							✓	✓	✓			✓	✓		✓
28	KJ-07-15' DUP	01/04/18	1357	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓		✓
29	KJ-07-19' DUP	01/04/18	1418	Soil	1						✓										✓					

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 1/5/18	Time: 1610
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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Linda Ta

From: Wes Ellis <WesEllis@kennedyjenks.com>
Sent: Wednesday, January 10, 2018 7:46 AM
To: Linda Ta; Ryan Strandberg
Cc: Richard Villafania
Subject: RE: Sample Receipt for Solana Torrance / ECI 18-01-0280

Categories: Important

Hi Linda, the sample was collected on 01/04/18 @ 1459 and should be ran for asbestos only.

Thank you,

Weston Ellis | Senior Staff Geologist
Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150 | Irvine, CA 92602-1365
P: 949.261.2181 | C: 812.893.0450 |
wesellis@KennedyJenks.com

From: Linda Ta [mailto:LindaTa@eurofinsUS.com]
Sent: Monday, January 08, 2018 9:48 AM
To: Ryan Strandberg <RyanStrandberg@KennedyJenks.com>; Wes Ellis <WesEllis@kennedyjenks.com>
Cc: Richard Villafania <RichardVillafania@eurofinsUS.com>
Subject: Sample Receipt for Solana Torrance / ECI 18-01-0280

Good Morning Ryan,

The lab received a sample that was not listed on the COC; refer to the sample anomaly form for more information and please advise.

Thanks!

Linda Ta
Project Manager Assistant

Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841
USA
P: +1 714 895 5494
F: +1 714 894 7501

Email: LindaTa@eurofinsus.com
Website: www.eurofinsUS.com/Calscience

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Linda Ta

From: Richard Villafania
Sent: Wednesday, January 10, 2018 9:48 AM
To: Linda Ta
Subject: FW: Solana Torrance

Categories: Important

From: Ryan Strandberg [mailto:RyanStrandberg@KennedyJenks.com]
Sent: Wednesday, January 10, 2018 9:47 AM
To: Richard Villafania
Subject: Solana Torrance

Richard,

The equipment blanks samples for COC Work Numbers 18-01-0365 and 18-01-0280 were missing a few analytical requirements. If you have extra sample volume, please add the following analytical methods for the below referenced samples:

- 18-01-0365, Lab Use ID 21, EB-2 – SVOCs, Title 22 Metals including lead, and Hexavalent Chromium.
- 18-01-0280, Lab Use ID 27, EB-1 – SVOCs, Title 22 Metals including lead, and Hexavalent Chromium.

Regards,

Ryan

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Richard Villafania

From: Wes Ellis <WesEllis@kennedyjenks.com>
Sent: Thursday, January 18, 2018 4:00 PM
To: Richard Villafania; Ryan Strandberg
Cc: Linda Ta
Subject: RE: Question for Solana Torrance / ECI 18-01-0280

Hi Richard,

The sample mentioned should be ran for T22 metals to include lead.

Thanks,
Wes

From: Richard Villafania [mailto:RichardVillafania@eurofinsUS.com]
Sent: Thursday, January 18, 2018 3:00 PM
To: Ryan Strandberg <RyanStrandberg@KennedyJenks.com>; Wes Ellis <WesEllis@kennedyjenks.com>
Cc: Linda Ta <LindaTa@eurofinsUS.com>
Subject: Question for Solana Torrance / ECI 18-01-0280

Greetings All,

Looking at the lab report draft – would like to confirm that you do need Method 7199 HexCr for sample (-19) **KJ-05-10'** instead of 6010B/7471 T22 metals; COC is attached for reference. Thanks.

Regards.

Richard Villafania
Project Manager

Eurofins Calscience
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494
Website: www.eurofinsUS.com/Calscience

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WORK ORDER NUMBER: 18-01-0280

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Kennedy Jenks

DATE: 01/05/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: +0.2°C); Temperature (w/o CF): 2.8 °C (w/ CF): 3.0 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SJG

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SJG

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SJG

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☑ 125PB (-27) ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☑ 500AGJ (-27) ☐ 500AGJ**s** (pH__2) ☐ 500PB

☑ 1AGB (5) (-27) ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ (-27) ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (P/S*) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

*(-17), (-18), (-19)

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: SJG

Reviewed by: SC

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WORK ORDER NUMBER: 18-01- 0280

SAMPLE ANOMALY REPORT

DATE: 01 / 05 / 2018

SAMPLES, CONTAINERS, AND LABELS:

- ☐ Sample(s) NOT RECEIVED but listed on COC
- ☑ Sample(s) received but NOT LISTED on COC
- ☐ Holding time expired (list client or ECI sample ID and analysis)
- ☐ Insufficient sample amount for requested analysis (list analysis)
- ☐ Improper container(s) used (list analysis)
- ☐ Improper preservative used (list analysis)
- ☐ pH outside acceptable range (list analysis)
- ☐ No preservative noted on COC or label (list analysis and notify lab)
- ☐ Sample container(s) not labeled
- ☐ Client sample label(s) illegible (list container type and analysis)
- ☐ Client sample label(s) do not match COC (comment)
  - ☐ Project information
  - ☐ Client sample ID
  - ☐ Sampling date and/or time
  - ☐ Number of container(s)
  - ☐ Requested analysis
- ☐ Sample container(s) compromised (comment)
  - ☐ Broken
  - ☐ Water present in sample container
- ☐ Air sample container(s) compromised (comment)
  - ☐ Flat
  - ☐ Very low in volume
  - ☐ Leaking (not transferred; duplicate bag submitted)
  - ☐ Leaking (transferred into ECI Tedlar™ bags*)
  - ☐ Leaking (transferred into client's Tedlar™ bags*)

* Transferred at client's request.

Comments

(-30) Received 1-plastic sleeve, labeled as KJ-09-24, no collection date/time on label, not on COC.

MISCELLANEOUS: (Describe)

Comments

HEADSPACE:

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

ECI Sample ID	ECI Container ID	Total Number**	ECI Sample ID	ECI Container ID	Total Number**

(Containers with bubble for other analysis)

ECI Sample ID	ECI Container ID	Total Number**	Requested Analysis

Comments: _____

Reported by: _____

Reviewed by: _____

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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Supplemental Report 2

Subcontract analyses are reported as a stand-alone report.

WORK ORDER NUMBER: 18-01-0280

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Kennedy/Jenks Consultants

Client Project Name: Solana Torrance

Attention: Ryan Strandberg
3210 El Camino Real
Suite 150
Irvine, CA 92602-1365

Approved for release on 01/23/2018 by:
Richard Villafania
Project Manager

ResultLink ▸

Email your PM ▸

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Contents

Client Project Name: Solana Torrance
Work Order Number: 18-01-0280

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Work Order Narrative

Work Order: 18-01-0280 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 01/05/18. They were assigned to Work Order 18-01-0280.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Glossary of Terms and Qualifiers

Work Order: 18-01-0280 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY: **18-01-0280**

Date 01/05/18
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LABORATORY CLIENT: Kennedy Jenks
ADDRESS: 3210 El Camino Real Suite 150
CITY: Irvine STATE: CA ZIP:
TEL:
E-MAIL: wesellis@kennedyjenks.com

CLIENT PROJECT NAME / NO.: Solana Torrance
P.O. NO.: 1583018*01
PROJECT CONTACT: Ryan Strandberg
LAB CONTACT OR QUOTE NO:
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Wes Ellis

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
For Title 22 include lead in analyses
KJ-07-15' → Homogenize and dupliate
KJ-07-19' → Homogenize and duplicate

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☑ C6-C36 ☑ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM 8310	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☑ 7199 ☐ 218.6	Organophosphorus Pesticides 8141A	Chlorinated Herbicides 8151A	Asbestos OSHA Method 10-191	pH
1	KJ-07-15'	01/04/18	1357	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	KJ-07-19'	"	1418	Soil	1						✓										✓					
3	KJ-03-11'	"	1605	Soil	1						✓										✓					
4	KJ-03-5'	"	1558	Soil	1						✓										✓					
5	KJ-09-14.5'	"	1445	Soil	1																				✓	
6	KJ-09-15.5'	"	1445	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓		✓
7	KJ-09-25'	"	1459	Soil	1						✓										✓					
8	KJ-04-1.5'	01/03/18	1319	Soil	1																				✓	
9	KJ-04-2.5'	"	"	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓		✓
10	KJ-04-10'	"	1325	Soil	1						✓										✓					

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		1/5/18	1610
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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CHAIN-OF-CUSTODY RECORD

Date 01/05/18
Page 2 of 3

WO NO. / LAB USE ONLY: 18-01-0280

LABORATORY CLIENT: Kennedy Jenks
ADDRESS: 3210 El Camino Real Suite 150
CITY: Irvine STATE: CA ZIP:
TEL: 812 893 0450 E-MAIL: wes ellis@kennedyjenks.com

CLIENT PROJECT NAME / NO.: Solana Torrance
PROJECT CONTACT: Ryan Strandberg
GLOBAL ID: LOG CODE:
P.O. NO.: 1583018*01
LAB CONTACT OR QUOTE NO:
SAMPLER(S): (PRINT) Wes Ellis

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
For Title 22 include lead in analyses

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☒ C6-C36 ☒ C6-C44	TPH	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM 8310	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☒ 7199 ☐ 218.6	Organophosphorus Pesticides 8141A	Chlorinated Herbicides 8151A	Asbestos OSHA Method ID-191	H
11	KJ-01-4.5'	01/04/18	0815	Soil	1																				✓	
12	KJ-01-5.5'	01/04/18	0815	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓		✓
13	KJ-01-15'	01/04/18	0821	Soil	1						✓										✓					
14	KJ-02-4.5'	"	1045	Soil	1																				✓	
15	KJ-02-5.5'	"	1045	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓		✓
16	KJ-02-25'	"	1100	Soil	1						✓										✓					
17	KJ-05-4'	"	1340	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓		✓
18	KJ-05-4.5'	"	1343	Soil	1																				✓	
19	KJ-05-10'	"	1355	Soil	1						✓											✓				
20	KJ-06-4.5'	01/03/18	0960	Soil	1																				✓	

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 1/5/18	Time: 1650
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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CHAIN-OF-CUSTODY RECORD

Date 01/05/18
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WO NO. / LAB USE ONLY: 18-01-0280

LABORATORY CLIENT: Kennedy Jenks
ADDRESS: 3210 El Camino Real Suite 150
CITY: Irvine STATE: CA ZIP:
TEL: 82 893 0450 E-MAIL: wesellis@kennedyjenks.com

CLIENT PROJECT NAME / NO.: Solana Terrace
PROJECT CONTACT: Ryan Strandberg
GLOBAL ID: LOG CODE:
P.O. NO.: 1583018 *01
LAB CONTACT OR QUOTE NO:
SAMPLER(S): (PRINT) Wes Ellis

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
For Title 22 include lead in analyses.

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☒ C6-C36 ☒ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM 8310	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☒ 7199 ☐ 218.6	Organophosphorus Pesticides 8141A	Chlorinated Herbicides 8151A	Asbestos OSHA Method ID-191	pH
21	KJ-06-5.5'	01/03/18	0950	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓		✓
22	KJ-06-10'	01/03/18	1000	Soil	1						✓										✓					
23	KJ-08-5'	01/04/18	1537	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24	KJ-08-15'	01/04/18	1545	Soil	1						✓										✓					
25	KJ-10-10'	01/03/18	1125	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
26	KJ-10-15'	01/03/18	1132	Soil	1						✓										✓					
27	EB-1	01/03/18	1030	Water	7						✓							✓	✓	✓			✓	✓		✓
28	KJ-07-15' DUP	01/04/18	1357	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓		✓
29	KJ-07-19' DUP	01/04/18	1418	Soil	1						✓										✓					

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 1/5/18	Time: 1610
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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Linda Ta

From: Wes Ellis <WesEllis@kennedyjenks.com>
Sent: Wednesday, January 10, 2018 7:46 AM
To: Linda Ta; Ryan Strandberg
Cc: Richard Villafania
Subject: RE: Sample Receipt for Solana Torrance / ECI 18-01-0280

Categories: Important

Hi Linda, the sample was collected on 01/04/18 @ 1459 and should be ran for asbestos only.

Thank you,

Weston Ellis | Senior Staff Geologist
Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150 | Irvine, CA 92602-1365
P: 949.261.2181 | C: 812.893.0450 |
wesellis@KennedyJenks.com

From: Linda Ta [mailto:LindaTa@eurofinsUS.com]
Sent: Monday, January 08, 2018 9:48 AM
To: Ryan Strandberg <RyanStrandberg@KennedyJenks.com>; Wes Ellis <WesEllis@kennedyjenks.com>
Cc: Richard Villafania <RichardVillafania@eurofinsUS.com>
Subject: Sample Receipt for Solana Torrance / ECI 18-01-0280

Good Morning Ryan,

The lab received a sample that was not listed on the COC; refer to the sample anomaly form for more information and please advise.

Thanks!

Linda Ta
Project Manager Assistant

Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841
USA
P: +1 714 895 5494
F: +1 714 894 7501

Email: LindaTa@eurofinsus.com
Website: www.eurofinsUS.com/Calscience

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Linda Ta

From: Richard Villafania
Sent: Wednesday, January 10, 2018 9:48 AM
To: Linda Ta
Subject: FW: Solana Torrance

Categories: Important

From: Ryan Strandberg [mailto:RyanStrandberg@KennedyJenks.com]
Sent: Wednesday, January 10, 2018 9:47 AM
To: Richard Villafania
Subject: Solana Torrance

Richard,

The equipment blanks samples for COC Work Numbers 18-01-0365 and 18-01-0280 were missing a few analytical requirements. If you have extra sample volume, please add the following analytical methods for the below referenced samples:

- 18-01-0365, Lab Use ID 21, EB-2 – SVOCs, Title 22 Metals including lead, and Hexavalent Chromium.
- 18-01-0280, Lab Use ID 27, EB-1 – SVOCs, Title 22 Metals including lead, and Hexavalent Chromium.

Regards,

Ryan

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Richard Villafania

From: Wes Ellis <WesEllis@kennedyjenks.com>
Sent: Thursday, January 18, 2018 4:00 PM
To: Richard Villafania; Ryan Strandberg
Cc: Linda Ta
Subject: RE: Question for Solana Torrance / ECI 18-01-0280

Hi Richard,

The sample mentioned should be ran for T22 metals to include lead.

Thanks,
Wes

From: Richard Villafania [mailto:RichardVillafania@eurofinsUS.com]
Sent: Thursday, January 18, 2018 3:00 PM
To: Ryan Strandberg <RyanStrandberg@KennedyJenks.com>; Wes Ellis <WesEllis@kennedyjenks.com>
Cc: Linda Ta <LindaTa@eurofinsUS.com>
Subject: Question for Solana Torrance / ECI 18-01-0280

Greetings All,

Looking at the lab report draft – would like to confirm that you do need Method 7199 HexCr for sample (-19) **KJ-05-10'** instead of 6010B/7471 T22 metals; COC is attached for reference. Thanks.

Regards.

Richard Villafania
Project Manager

Eurofins Calscience
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494
Website: www.eurofinsUS.com/Calscience

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WORK ORDER NUMBER: 18-01-0280

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Kennedy Jenks

DATE: 01/05/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: +0.2°C); Temperature (w/o CF): 2.8 °C (w/ CF): 3.0 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SJG

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SJG

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SJG

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☑ 125PB (-27) ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☑ 500AGJ (-27) ☐ 500AGJ**s** (pH__2) ☐ 500PB

☑ 1AGB (5) (-27) ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ (-27) ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve P/S* (-17) (-18) (-19) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: SJG

Reviewed by: SC2

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WORK ORDER NUMBER: 18-01- 0280

SAMPLE ANOMALY REPORT

DATE: 01 / 05 / 2018

SAMPLES, CONTAINERS, AND LABELS:

- ☐ Sample(s) NOT RECEIVED but listed on COC
- ☑ Sample(s) received but NOT LISTED on COC
- ☐ Holding time expired (list client or ECI sample ID and analysis)
- ☐ Insufficient sample amount for requested analysis (list analysis)
- ☐ Improper container(s) used (list analysis)
- ☐ Improper preservative used (list analysis)
- ☐ pH outside acceptable range (list analysis)
- ☐ No preservative noted on COC or label (list analysis and notify lab)
- ☐ Sample container(s) not labeled
- ☐ Client sample label(s) illegible (list container type and analysis)
- ☐ Client sample label(s) do not match COC (comment)
  - ☐ Project information
  - ☐ Client sample ID
  - ☐ Sampling date and/or time
  - ☐ Number of container(s)
  - ☐ Requested analysis
- ☐ Sample container(s) compromised (comment)
  - ☐ Broken
  - ☐ Water present in sample container
- ☐ Air sample container(s) compromised (comment)
  - ☐ Flat
  - ☐ Very low in volume
  - ☐ Leaking (not transferred; duplicate bag submitted)
  - ☐ Leaking (transferred into ECI Tedlar™ bags*)
  - ☐ Leaking (transferred into client's Tedlar™ bags*)

* Transferred at client's request.

Comments

(-30) Received 1-plastic sleeve, labeled as KJ-09-24, no collection date/time on label, not on COC.

MISCELLANEOUS: (Describe)

Comments

HEADSPACE:

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

ECI Sample ID	ECI Container ID	Total Number**	ECI Sample ID	ECI Container ID	Total Number**

(Containers with bubble for other analysis)

ECI Sample ID	ECI Container ID	Total Number**	Requested Analysis

Comments: _____

Reported by: DSG

Reviewed by: SRL

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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Subcontractor Analysis Report

Work Order: 18-01-0280 Page 1 of 1

One or more samples in this work order have tests that were subcontracted. The subcontract report(s) follows.

For subcontracted tests, please reference the laboratory information noted below.

1. EMSL - LA Testing - South Pasadena,CA CA ELAP 2283
   Asbestos

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LA Testing
520 Mission Street, South Pasadena, CA 91030
Phone: (800) 303-0047 Fax: (323) 254-9982 Email: Pasadenalab@latesting.com

Attn: **Richard Villafania**
Eurofins Calscience, Inc
7440 Lincoln Way
Garden Grove, CA 92841

Fax: 714-894-7501 Phone: 714-895-5494
Project: 18-01-0280

Customer ID: 32CALS51
Customer PO:
Received: 01/09/2018 15:15
LA Testing Order: 321800535
LA Testing Proj:
Analysis Date: 1/23/2017

Test Report: Asbestos Analysis of Soil Materials via OSHA ID 191 Method using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
KJ-07-15'		Brown			100% Non-fibrous (other)	**None Detected**
321800535-0001		Non-Fibrous Homogeneous				
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
KJ-09-14.5'		Brown			100% Non-fibrous (other)	**None Detected**
321800535-0002		Non-Fibrous Homogeneous				
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
KJ-04-1.5'		Brown			100% Non-fibrous (other)	**None Detected**
321800535-0003		Non-Fibrous Homogeneous				
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
KJ-01-4.5'		Brown			100% Non-fibrous (other)	**None Detected**
321800535-0004		Non-Fibrous Homogeneous				
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
KJ-02-4.5'		Tan			100% Non-fibrous (other)	**None Detected**
321800535-0005		Non-Fibrous Homogeneous				
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
KJ-05-4.5'		Tan			100% Non-fibrous (other)	**None Detected**
321800535-0006		Non-Fibrous Homogeneous				

Analyst(s)
Casas, Arturo (10)
Espinoza, Humberto (1)

Jerry Drapala Ph.D, Laboratory Manager
or other approved signatory

Some samples may contain asbestos fibers present in dimensions below PLM resolution limits.The limit of detection as stated in the method is 0.1%. EMSL Analytical Inc suggests that samples reported as <0.1% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc. bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc liability is limited to the cost of sample analysis.The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are

Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0, CA ELAP 2283

This is a qualitative soil analysis method. Due to the heterogeneity of the samples there is a significant chance for quantification errors and/or false negatives with this method.

Initial report from 06/29/2016 14:00

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LA Testing
520 Mission Street, South Pasadena, CA 91030
Phone: (800) 303-0047 Fax: (323) 254-9982 Email: Pasadenalab@latesting.com

Attn: **Richard Villafania**
Eurofins Calscience, Inc
7440 Lincoln Way
Garden Grove, CA 92841

Fax: 714-894-7501 Phone: 714-895-5494
Project: 18-01-0280

Customer ID: 32CALS51
Customer PO:
Received: 01/09/2018 15:15
LA Testing Order: 321800535
LA Testing Proj:
Analysis Date: 1/23/2017

Test Report: Asbestos Analysis of Soil Materials via OSHA ID 191 Method using Polarized Light Microscopy

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
KJ-06-4.5'		Brown		100% Non-fibrous (other)	None Detected
321800535-0007		Non-Fibrous Homogeneous			
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
KJ-08-5'		Tan		100% Non-fibrous (other)	None Detected
321800535-0008		Non-Fibrous Homogeneous			
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
KJ-10-10'		Brown		100% Non-fibrous (other)	None Detected
321800535-0009		Non-Fibrous Homogeneous			
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
KJ-09-24'		Brown		100% Non-fibrous (other)	None Detected
321800535-0010		Non-Fibrous Homogeneous			
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
KJ-07-15' DUP		Brown		100% Non-fibrous (other)	None Detected
321800535-0011		Non-Fibrous Homogeneous			

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Analyst(s)
Casas, Arturo (10)
Espinoza, Humberto (1)

Jerry Drapala Ph.D, Laboratory Manager
or other approved signatory

Some samples may contain asbestos fibers present in dimensions below PLM resolution limits.The limit of detection as stated in the method is 0.1%. EMSL Analytical Inc suggests that samples reported as <0.1% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc. bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc liability is limited to the cost of sample analysis.The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are

Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0, CA ELAP 2283

This is a qualitative soil analysis method. Due to the heterogeneity of the samples there is a significant chance for quantification errors and/or false negatives with this method.

Initial report from 06/29/2016 14:00

321800535#

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

TO: EMSL Analytical, Inc.
520 Mission St.
South Pasadena, CA 91030
P: (800) 303-0047

CHAIN OF CUSTODY RECORD

DATE: 01/08/18

PAGE: 1 OF 1

LABORATORY CLIENT: EUROFINS CALSCIENCE, INC.

ADDRESS: 7440 LINCOLN WAY

CITY: GARDEN GROVE STATE: CA ZIP: 92841-1432

TEL: (714) 895-5494 E-MAIL: RichardVillafania@eurofinsUS.com

CLIENT PROJECT NAME / NUMBER: 18-01-0280

P.O. NO.: 18-01-0280

PROJECT CONTACT: Richard Villafania

SAMPLER(S): (PRINT)

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
X STANDARD o 24 HR o 48 HR o 72 HR o 5 DAYS

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	Asbestos by ID 191	CONTAINER TYPE
	KJ-07-15'	01/04/18	13:57	S	1	X			X	
	KJ-09-14.5'	01/04/18	14:45	S	1	X			X	
	KJ-04-1.5'	01/03/18	13:19	S	1	X			X	
	KJ-01-4.5'	01/04/18	8:15	S	1	X			X	
	KJ-02-4.5'	01/04/18	10:45	S	1	X			X	
	KJ-05-4.5'	01/04/18	13:43	S	1	X			X	
	KJ-06-4.5'	01/03/18	9:50	S	1	X			X	
	KJ-08-5'	01/04/18	15:37	S	1	X			X	
	KJ-10-10'	01/03/18	11:25	S	1	X			X	

Relinquished by: (Signature)	Received by: (Signature/Affiliation) GSO # 539018417	Date: 1/8/18	Time: 1630
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 1/9/18	Time: 1575
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

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Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

TO: EMSL Analytical, Inc.
520 Mission St.
South Pasadena, CA 91030
P: (800) 303-0047

CHAIN OF CUSTODY RECORD

DATE: 01/10/18

PAGE: 1 OF 1

OrderID: 321800535

LABORATORY CLIENT: EUROFINS CALSCIENCE, INC.

ADDRESS: 7440 LINCOLN WAY

CITY: GARDEN GROVE STATE: CA ZIP: 92841-1432

TEL: (714) 895-5494 E-MAIL: RichardVillafania@eurofinsUS.com

CLIENT PROJECT NAME / NUMBER: **18-01-0280**

P.O. NO.: 18-01-0280

PROJECT CONTACT: **Richard Villafania**

SAMPLER(S): (PRINT)

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
X STANDARD o 24 HR o 48 HR o 72 HR o 5 DAYS

☐ COELT EDF

GLOBAL ID:

LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	Asbestos by ID 191	CONTAINER TYPE
	KJ-09-24'	01/04/18	14:59	S	1	X			X	

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

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Supplemental Report 3

WORK ORDER NUMBER: 18-01-0280

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Kennedy/Jenks Consultants

Client Project Name: Solana Torrance

Attention: Ryan Strandberg
3210 El Camino Real
Suite 150
Irvine, CA 92602-1365

Approved for release on 01/31/2018 by:
Richard Villafania
Project Manager

ResultLink ▸

Email your PM ▸

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Contents

Client Project Name: Solana Torrance
Work Order Number: 18-01-0280

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Work Order Narrative

Work Order: 18-01-0280 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 01/05/18. They were assigned to Work Order 18-01-0280.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	Kennedy/Jenks Consultants 3210 El Camino Real, Suite 150 Irvine, CA 92602-1365	Work Order:	18-01-0280
		Project Name:	Solana Torrance
		PO Number:	1583018*01
		Date/Time Received:	01/05/18 16:10
		Number of Containers:	36
Attn:	Ryan Strandberg		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
KJ-07-15	18-01-0280-1	01/04/18 13:57	1	Solid
KJ-07-19	18-01-0280-2	01/04/18 14:18	1	Solid
KJ-03-11	18-01-0280-3	01/04/18 16:05	1	Solid
KJ-03-5	18-01-0280-4	01/04/18 15:58	1	Solid
KJ-09-14.5	18-01-0280-5	01/04/18 14:45	1	Solid
KJ-09-15.5	18-01-0280-6	01/04/18 14:45	1	Solid
KJ-09-25	18-01-0280-7	01/04/18 14:59	1	Solid
KJ-04-1.5	18-01-0280-8	01/03/18 13:19	1	Solid
KJ-04-2.5	18-01-0280-9	01/03/18 13:19	1	Solid
KJ-04-10	18-01-0280-10	01/03/18 13:25	1	Solid
KJ-01-4.5	18-01-0280-11	01/04/18 08:15	1	Solid
KJ-01-5.5	18-01-0280-12	01/04/18 08:15	1	Solid
KJ-01-15	18-01-0280-13	01/04/18 08:21	1	Solid
KJ-02-4.5	18-01-0280-14	01/04/18 10:45	1	Solid
KJ-02-5.5	18-01-0280-15	01/04/18 10:45	1	Solid
KJ-02-25	18-01-0280-16	01/04/18 11:00	1	Solid
KJ-05-4	18-01-0280-17	01/04/18 13:40	1	Solid
KJ-05-4.5	18-01-0280-18	01/04/18 13:43	1	Solid
KJ-05-10	18-01-0280-19	01/04/18 13:55	1	Solid
KJ-06-4.5	18-01-0280-20	01/03/18 09:50	1	Solid
KJ-06-5.5	18-01-0280-21	01/03/18 09:50	1	Solid
KJ-06-10	18-01-0280-22	01/03/18 10:00	1	Solid
KJ-08-5	18-01-0280-23	01/04/18 15:37	1	Solid
KJ-08-15	18-01-0280-24	01/04/18 15:45	1	Solid
KJ-10-10	18-01-0280-25	01/03/18 11:25	1	Solid
KJ-10-15	18-01-0280-26	01/03/18 11:32	1	Solid
EB-1	18-01-0280-27	01/03/18 10:30	7	Aqueous
KJ-07-15 DUP	18-01-0280-28	01/04/18 13:57	1	Solid
KJ-07-19 DUP	18-01-0280-29	01/04/18 14:18	1	Solid
KJ-09-24	18-01-0280-30	01/04/18 14:59	1	Solid

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3060A
Method: EPA 7199
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15	**18-01-0280-1-AA**	**01/04/18 13:57**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 13:06**	**180106L01P**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chromium, Hexavalent	800	400	200	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-09-15.5	**18-01-0280-6-A**	**01/04/18 14:45**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 13:15**	**180106L01P**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chromium, Hexavalent	470	400	200	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-04-2.5	**18-01-0280-9-A**	**01/03/18 13:19**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 13:24**	**180106L01P**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chromium, Hexavalent	ND	400	200	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-01-5.5	**18-01-0280-12-A**	**01/04/18 08:15**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 13:33**	**180106L01P**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chromium, Hexavalent	470	400	200	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-02-5.5	**18-01-0280-15-A**	**01/04/18 10:45**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 13:42**	**180106L01P**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chromium, Hexavalent	310	400	200	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-05-4	**18-01-0280-17-A**	**01/04/18 13:40**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 13:51**	**180106L01P**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chromium, Hexavalent	230	400	200	1.00	J

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/05/18
Work Order: 18-01-0280
Preparation: EPA 3060A
Method: EPA 7199
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-06-5.5	**18-01-0280-21-A**	**01/03/18 09:50**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 14:00**	**180106L01P**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chromium, Hexavalent	340	400	200	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-08-5	**18-01-0280-23-A**	**01/04/18 15:37**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 14:09**	**180106L01P**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chromium, Hexavalent	ND	400	200	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-10-10	**18-01-0280-25-A**	**01/03/18 11:25**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 14:18**	**180106L01P**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chromium, Hexavalent	ND	400	200	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
KJ-07-15 DUP	**18-01-0280-28-AA**	**01/04/18 13:57**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 14:27**	**180106L01P**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chromium, Hexavalent	1100	400	200	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-125-3204**	**N/A**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 12:49**	**180106L01P**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chromium, Hexavalent	ND	400	200	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants		Date Received:	01/05/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0280
Irvine, CA 92602-1365		Preparation:	EPA 3060A
		Method:	EPA 7199
Project: Solana Torrance			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
KJ-04-2.5	**Sample**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 13:24**	**180106S01P**
KJ-04-2.5	**Matrix Spike**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 14:36**	**180106S01P**
KJ-04-2.5	**Matrix Spike Duplicate**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 14:45**	**180106S01P**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	ND	20000	19660	98	19700	98	75-125	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants	Date Received: 01/05/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0280
Irvine, CA 92602-1365	Preparation: EPA 3060A
	Method: EPA 7199
Project: Solana Torrance	Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-05-125-3204	**LCS**	**Solid**	**IC 11**	**01/06/18**	**01/06/18 12:57**	**180106L01P**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Chromium, Hexavalent	20000	17390	87	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 18-01-0280 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 7199	EPA 3060A	834	IC 11	1

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Glossary of Terms and Qualifiers

Work Order: 18-01-0280 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY: **18-01-0280**

Date 01/05/18
Page 1 of 3

LABORATORY CLIENT: Kennedy Jenks
ADDRESS: 3210 El Camino Real Suite 150
CITY: Irvine STATE: CA ZIP:
TEL:
E-MAIL: wesellis@kennedyjenks.com

CLIENT PROJECT NAME / NO.: Solana Torrance
P.O. NO.: 1583018*01
PROJECT CONTACT: Ryan Strandberg
LAB CONTACT OR QUOTE NO:
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Wes Ellis

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
For Title 22 include lead in analyses
KJ-07-15' → Homogenize and dupliate
KJ-07-19' → Homogenize and duplicate

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☑ C6-C36 ☑ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM 8310	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☑ 7199 ☐ 218.6	Organophosphorus Pesticides 8141A	Chlorinated Herbicides 8151A	Asbestos OSHA Method 10-191	Pb
1	KJ-07-15'	01/04/18	1357	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	KJ-07-19'	"	1418	Soil	1						✓										✓					
3	KJ-03-11'	"	1605	Soil	1						✓										✓					
4	KJ-03-5'	"	1558	Soil	1						✓										✓					
5	KJ-09-14.5'	"	1445	Soil	1																				✓	
6	KJ-09-15.5'	"	1445	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓		✓
7	KJ-09-25'	"	1459	Soil	1						✓										✓					
8	KJ-04-1.5'	01/03/18	1319	Soil	1																				✓	
9	KJ-04-2.5'	"	"	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓		✓
10	KJ-04-10'	"	1325	Soil	1						✓										✓					

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		1/5/18	1610
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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CHAIN-OF-CUSTODY RECORD

Date 01/05/18

WO NO. / LAB USE ONLY: 18-01-0280

LABORATORY CLIENT: Kennedy Jenks
ADDRESS: 3210 El Camino Real Suite 150
CITY: Irvine STATE: CA ZIP:
TEL: 812 893 0450 E-MAIL: wes ellis@kennedyjenks.com

CLIENT PROJECT NAME / NO.: Solana Torrance
PROJECT CONTACT: Ryan Strandberg
GLOBAL ID: LOG CODE:

P.O. NO.: 1583018*01
LAB CONTACT OR QUOTE NO:
SAMPLER(S): (PRINT): Wes Ellis

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
For Title 22 include lead in analyses

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☒ C6-C36 ☒ C6-C44	TPH	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM 8310	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☒ 7199 ☐ 218.6	Organophosphorus Pesticides 8141A	Chlorinated Herbicides 8151A	Asbestos OSHA Method ID-191	H
11	KJ-01-4.5'	01/04/18	0815	Soil	1																				✓	
12	KJ-01-5.5'	01/04/18	0815	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓		✓
13	KJ-01-15'	01/04/18	0821	Soil	1						✓										✓					
14	KJ-02-4.5'	"	1045	Soil	1																				✓	
15	KJ-02-5.5'	"	1045	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓		✓
16	KJ-02-25'	"	1100	Soil	1						✓										✓					
17	KJ-05-4'	"	1340	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓		✓
18	KJ-05-4.5'	"	1343	Soil	1																				✓	
19	KJ-05-10'	"	1355	Soil	1						✓											✓				
20	KJ-06-4.5'	01/03/18	0960	Soil	1																				✓	

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 1/5/18	Time: 1650
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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CHAIN-OF-CUSTODY RECORD

Date 01/05/18
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WO NO. / LAB USE ONLY: 18-01-0280

LABORATORY CLIENT: Kennedy Jenks
ADDRESS: 3210 El Camino Real Suite 150
CITY: Irvine STATE: CA ZIP:
TEL: 82 893 0450 E-MAIL: wesellis@kennedyjenks.com

CLIENT PROJECT NAME / NO.: Solana Terrace
PROJECT CONTACT: Ryan Strandberg
GLOBAL ID: LOG CODE:
P.O. NO.: 1583018 *01
LAB CONTACT OR QUOTE NO:
SAMPLER(S): (PRINT) Wes Ellis

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
For Title 22 include lead in analyses.

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☒ C6-C36 ☒ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM 8310	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☒ 7199 ☐ 218.6	Organophosphorus Pesticides 8141A	Chlorinated Herbicides 8151A	Asbestos OSHA Method ID-191	pH
21	KJ-06-5.5'	01/03/18	0950	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓		✓
22	KJ-06-10'	01/03/18	1000	Soil	1						✓										✓					
23	KJ-08-5'	01/04/18	1537	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24	KJ-08-15'	01/04/18	1545	Soil	1						✓										✓					
25	KJ-10-10'	01/03/18	1125	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
26	KJ-10-15'	01/03/18	1132	Soil	1						✓										✓					
27	EB-1	01/03/18	1030	Water	7						✓							✓	✓	✓			✓	✓		✓
28	KJ-07-15' DUP	01/04/18	1357	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓		✓
29	KJ-07-19' DUP	01/04/18	1418	Soil	1						✓										✓					

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 1/5/18	Time: 1610
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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Linda Ta

From: Wes Ellis <WesEllis@kennedyjenks.com>
Sent: Wednesday, January 10, 2018 7:46 AM
To: Linda Ta; Ryan Strandberg
Cc: Richard Villafania
Subject: RE: Sample Receipt for Solana Torrance / ECI 18-01-0280

Categories: Important

Hi Linda, the sample was collected on 01/04/18 @ 1459 and should be ran for asbestos only.

Thank you,

Weston Ellis | Senior Staff Geologist
Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150 | Irvine, CA 92602-1365
P: 949.261.2181 | C: 812.893.0450 |
wesellis@KennedyJenks.com

From: Linda Ta [mailto:LindaTa@eurofinsUS.com]
Sent: Monday, January 08, 2018 9:48 AM
To: Ryan Strandberg <RyanStrandberg@KennedyJenks.com>; Wes Ellis <WesEllis@kennedyjenks.com>
Cc: Richard Villafania <RichardVillafania@eurofinsUS.com>
Subject: Sample Receipt for Solana Torrance / ECI 18-01-0280

Good Morning Ryan,

The lab received a sample that was not listed on the COC; refer to the sample anomaly form for more information and please advise.

Thanks!

Linda Ta
Project Manager Assistant

Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841
USA
P: +1 714 895 5494
F: +1 714 894 7501

Email: LindaTa@eurofinsus.com
Website: www.eurofinsUS.com/Calscience

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Richard Villafania

From: Ryan Strandberg <RyanStrandberg@KennedyJenks.com>
Sent: Wednesday, January 10, 2018 8:55 AM
To: Linda Ta; Wes Ellis
Cc: Richard Villafania
Subject: RE: Sample Receipt for Solana Torrance / ECI 18-01-0280

Linda,

For this on the below referenced COC (18-01-0280) please note the following (if it's not too late):

- Please ensure the TPH-CCID is just reported for the C6-C44 range (it appears both the C6-C36 and C6-C44 options were marked).
- Please also run sample 28 (Sample ID KJ-07-15-DUP for Asbestos by OSHA Method ID-191.

Thanks,

Ryan

From: Linda Ta [mailto:LindaTa@eurofinsUS.com]
Sent: Monday, January 8, 2018 9:48 AM
To: Ryan Strandberg <RyanStrandberg@KennedyJenks.com>; Wes Ellis <WesEllis@kennedyjenks.com>
Cc: Richard Villafania <RichardVillafania@eurofinsUS.com>
Subject: Sample Receipt for Solana Torrance / ECI 18-01-0280

Good Morning Ryan,

The lab received a sample that was not listed on the COC; refer to the sample anomaly form for more information and please advise.

Thanks!

Linda Ta
Project Manager Assistant

Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841
USA
P: +1 714 895 5494
F: +1 714 894 7501

Email: LindaTa@eurofinsus.com
Website: www.eurofinsUS.com/Calscience

❖2017 Holiday Schedule❖

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Linda Ta

From: Richard Villafania
Sent: Wednesday, January 10, 2018 9:48 AM
To: Linda Ta
Subject: FW: Solana Torrance

Categories: Important

From: Ryan Strandberg [mailto:RyanStrandberg@KennedyJenks.com]
Sent: Wednesday, January 10, 2018 9:47 AM
To: Richard Villafania
Subject: Solana Torrance

Richard,

The equipment blanks samples for COC Work Numbers 18-01-0365 and 18-01-0280 were missing a few analytical requirements. If you have extra sample volume, please add the following analytical methods for the below referenced samples:

- 18-01-0365, Lab Use ID 21, EB-2 – SVOCs, Title 22 Metals including lead, and Hexavalent Chromium.
- 18-01-0280, Lab Use ID 27, EB-1 – SVOCs, Title 22 Metals including lead, and Hexavalent Chromium.

Regards,

Ryan

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Richard Villafania

From: Wes Ellis <WesEllis@kennedyjenks.com>
Sent: Thursday, January 18, 2018 4:00 PM
To: Richard Villafania; Ryan Strandberg
Cc: Linda Ta
Subject: RE: Question for Solana Torrance / ECI 18-01-0280

Hi Richard,

The sample mentioned should be ran for T22 metals to include lead.

Thanks,
Wes

From: Richard Villafania [mailto:RichardVillafania@eurofinsUS.com]
Sent: Thursday, January 18, 2018 3:00 PM
To: Ryan Strandberg <RyanStrandberg@KennedyJenks.com>; Wes Ellis <WesEllis@kennedyjenks.com>
Cc: Linda Ta <LindaTa@eurofinsUS.com>
Subject: Question for Solana Torrance / ECI 18-01-0280

Greetings All,

Looking at the lab report draft – would like to confirm that you do need Method 7199 HexCr for sample (-19) **KJ-05-10'** instead of 6010B/7471 T22 metals; COC is attached for reference. Thanks.

Regards.

Richard Villafania
Project Manager

Eurofins Calscience
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494
Website: www.eurofinsUS.com/Calscience

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WORK ORDER NUMBER: 18-01-0280

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Kennedy Jenks

DATE: 01/05/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: +0.2°C); Temperature (w/o CF): 2.8 °C (w/ CF): 3.0 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SJG

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SJG

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SJG

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☑ 125PB (-27) ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☑ 500AGJ (-27) ☐ 500AGJ**s** (pH__2) ☐ 500PB

☑ 1AGB (5) (-27) ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ (-27) ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve P/S* (-17) (-18) (-19) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: SJG

Reviewed by: SC

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WORK ORDER NUMBER: 18-01- 0280

SAMPLE ANOMALY REPORT

DATE: 01 / 05 / 2018

SAMPLES, CONTAINERS, AND LABELS:

- ☐ Sample(s) NOT RECEIVED but listed on COC
- ☑ Sample(s) received but NOT LISTED on COC
- ☐ Holding time expired (list client or ECI sample ID and analysis)
- ☐ Insufficient sample amount for requested analysis (list analysis)
- ☐ Improper container(s) used (list analysis)
- ☐ Improper preservative used (list analysis)
- ☐ pH outside acceptable range (list analysis)
- ☐ No preservative noted on COC or label (list analysis and notify lab)
- ☐ Sample container(s) not labeled
- ☐ Client sample label(s) illegible (list container type and analysis)
- ☐ Client sample label(s) do not match COC (comment)
  - ☐ Project information
  - ☐ Client sample ID
  - ☐ Sampling date and/or time
  - ☐ Number of container(s)
  - ☐ Requested analysis
- ☐ Sample container(s) compromised (comment)
  - ☐ Broken
  - ☐ Water present in sample container
- ☐ Air sample container(s) compromised (comment)
  - ☐ Flat
  - ☐ Very low in volume
  - ☐ Leaking (not transferred; duplicate bag submitted)
  - ☐ Leaking (transferred into ECI Tedlar™ bags*)
  - ☐ Leaking (transferred into client's Tedlar™ bags*)

* Transferred at client's request.

Comments

(-30) Received 1-plastic sleeve, labeled as KJ-09-24, no collection date/time on label, not on COC.

MISCELLANEOUS: (Describe)

Comments

HEADSPACE:

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

ECI Sample ID	ECI Container ID	Total Number**	ECI Sample ID	ECI Container ID	Total Number**

(Containers with bubble for other analysis)

ECI Sample ID	ECI Container ID	Total Number**	Requested Analysis

Comments: _____

Reported by: _____

Reviewed by: _____

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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Subcontractor Analysis Report

Work Order: 18-01-0280 Page 1 of 1

One or more samples in this work order have tests that were subcontracted. The subcontract report(s) follows.

For subcontracted tests, please reference the laboratory information noted below.

1. EMSL - LA Testing - South Pasadena,CA CA ELAP 2283
   Asbestos

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WORK ORDER NUMBER: 18-01-0365

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Kennedy/Jenks Consultants

Client Project Name: Solana Torrance

Attention: Ryan Strandberg
3210 El Camino Real
Suite 150
Irvine, CA 92602-1365

Approved for release on 01/23/2018 by:
Richard Villafania
Project Manager

ResultLink ▸

Email your PM ▸

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Contents

Client Project Name: Solana Torrance
Work Order Number: 18-01-0365

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Work Order Narrative

Work Order: 18-01-0365 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 01/08/18. They were assigned to Work Order 18-01-0365.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	Kennedy/Jenks Consultants 3210 El Camino Real, Suite 150 Irvine, CA 92602-1365	Work Order:	18-01-0365
		Project Name:	Solana Torrance
		PO Number:	
		Date/Time Received:	01/08/18 18:00
		Number of Containers:	27
Attn:	Ryan Strandberg		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
SV-02C-15'	18-01-0365-1	01/06/18 11:12	1	Solid
SV-02C-6-5'	18-01-0365-2	01/06/18 09:55	1	Solid
SV-02C-4-15'	18-01-0365-3	01/06/18 14:04	1	Solid
SV-02C-1-15'	18-01-0365-4	01/06/18 08:42	1	Solid
SV-02C-5-5'	18-01-0365-5	01/06/18 13:24	1	Solid
SV-02C-1-25'	18-01-0365-6	01/06/18 15:58	1	Solid
SV-02C-5-15'	18-01-0365-7	01/06/18 13:35	1	Solid
SV-02C-2-15'	18-01-0365-8	01/06/18 15:59	1	Solid
SV-02C-3-5'	18-01-0365-9	01/06/18 09:19	1	Solid
SV-02C-1-5.5'	18-01-0365-10	01/06/18 08:34	1	Solid
SV-02C-2-25'	18-01-0365-11	01/06/18 16:30	1	Solid
SV-02C-1-35'	18-01-0365-12	01/06/18 15:58	1	Solid
SV-02C-35'	18-01-0365-13	01/06/18 11:39	1	Solid
SV-02C-5'	18-01-0365-14	01/06/18 11:05	1	Solid
SV-02C-3-15'	18-01-0365-15	01/06/18 09:25	1	Solid
SV-02C-25'	18-01-0365-16	01/06/18 11:33	1	Solid
SV-02C-1-4.5'	18-01-0365-17	01/06/18 08:34	1	Solid
SV-02C-6-15'	18-01-0365-18	01/06/18 10:00	1	Solid
SV-02C-2-5'	18-01-0365-19	01/06/18 15:52	1	Solid
SV-02C-4-5'	18-01-0365-20	01/06/18 13:55	1	Solid
EB-2	18-01-0365-21	01/06/18 10:20	7	Aqueous

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3060A
Method: EPA 7199
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-02C-15'	**18-01-0365-1-A**	**01/06/18 11:12**	**Solid**	**IC 11**	**01/09/18**	**01/09/18 18:18**	**180109L01P**

Parameter	Result	RL	DF	Qualifiers
Chromium, Hexavalent	ND	400	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-125-3205**	**N/A**	**Solid**	**IC 11**	**01/09/18**	**01/09/18 17:53**	**180109L01P**

Parameter	Result	RL	DF	Qualifiers
Chromium, Hexavalent	ND	400	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3510C
Method: EPA 8310
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**18-01-0365-21-A**	**01/06/18 10:20**	**Aqueous**	**HPLC 5**	**01/10/18**	**01/13/18 03:52**	**180110L09**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.95	1.00	
Acenaphthylene	ND	0.95	1.00	
Acenaphthene	ND	0.95	1.00	
Fluorene	ND	0.95	1.00	
Phenanthrene	ND	0.95	1.00	
Anthracene	ND	0.95	1.00	
Fluoranthene	ND	0.95	1.00	
Pyrene	ND	0.95	1.00	
Benzo (a) Anthracene	ND	0.95	1.00	
Chrysene	ND	0.95	1.00	
Benzo (b) Fluoranthene	ND	0.95	1.00	
Benzo (k) Fluoranthene	ND	0.95	1.00	
Benzo (a) Pyrene	ND	0.19	1.00	
Dibenz (a,h) Anthracene	ND	0.95	1.00	
Benzo (g,h,i) Perylene	ND	0.95	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decafluorobiphenyl	70	14-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3510C
Method: EPA 8310
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-07-003-2028**	**N/A**	**Aqueous**	**HPLC 5**	**01/10/18**	**01/12/18 21:56**	**180110L09**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	1.0	1.00	
Acenaphthylene	ND	1.0	1.00	
Acenaphthene	ND	1.0	1.00	
Fluorene	ND	1.0	1.00	
Phenanthrene	ND	1.0	1.00	
Anthracene	ND	1.0	1.00	
Fluoranthene	ND	1.0	1.00	
Pyrene	ND	1.0	1.00	
Benzo (a) Anthracene	ND	1.0	1.00	
Chrysene	ND	1.0	1.00	
Benzo (b) Fluoranthene	ND	1.0	1.00	
Benzo (k) Fluoranthene	ND	1.0	1.00	
Benzo (a) Pyrene	ND	0.20	1.00	
Dibenz (a,h) Anthracene	ND	1.0	1.00	
Benzo (g,h,i) Perylene	ND	1.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	1.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decafluorobiphenyl	64	14-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3545
Method: EPA 8310
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-02C-15'	**18-01-0365-1-A**	**01/06/18 11:12**	**Solid**	**HPLC 5**	**01/10/18**	**01/12/18 15:08**	**180110L03**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	15	1.00	
Acenaphthylene	ND	30	1.00	
Acenaphthene	ND	15	1.00	
Fluorene	ND	10	1.00	
Phenanthrene	ND	10	1.00	
Anthracene	ND	10	1.00	
Fluoranthene	ND	10	1.00	
Pyrene	ND	10	1.00	
Benzo (a) Anthracene	ND	10	1.00	
Chrysene	ND	10	1.00	
Benzo (b) Fluoranthene	ND	10	1.00	
Benzo (k) Fluoranthene	ND	10	1.00	
Benzo (a) Pyrene	ND	10	1.00	
Dibenz (a,h) Anthracene	ND	10	1.00	
Benzo (g,h,i) Perylene	ND	10	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decafluorobiphenyl	51	8-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3545
Method: EPA 8310
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-07-002-1933**	**N/A**	**Solid**	**HPLC 5**	**01/10/18**	**01/11/18 19:40**	**180110L03**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	15	1.00	
Acenaphthylene	ND	30	1.00	
Acenaphthene	ND	15	1.00	
Fluorene	ND	10	1.00	
Phenanthrene	ND	10	1.00	
Anthracene	ND	10	1.00	
Fluoranthene	ND	10	1.00	
Pyrene	ND	10	1.00	
Benzo (a) Anthracene	ND	10	1.00	
Chrysene	ND	10	1.00	
Benzo (b) Fluoranthene	ND	10	1.00	
Benzo (k) Fluoranthene	ND	10	1.00	
Benzo (a) Pyrene	ND	10	1.00	
Dibenz (a,h) Anthracene	ND	10	1.00	
Benzo (g,h,i) Perylene	ND	10	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decafluorobiphenyl	73	8-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	N/A
		Method:	EPA 9045C
		Units:	pH units
Project: Solana Torrance			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-02C-15'	**18-01-0365-1-A**	**01/06/18 11:12**	**Solid**	**PH 4**	**01/08/18**	**01/08/18 19:30**	**I0108PHD3**

Parameter	Result	RL	DF	Qualifiers
pH	8.37	0.01	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	N/A
		Method:	SM 4500 H+ B
		Units:	pH units
Project: Solana Torrance			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**18-01-0365-21-G**	**01/06/18 10:20**	**Aqueous**	**PH 1**	**N/A**	**01/08/18 20:00**	**I0108PHD1**

Parameter	Result	RL	DF	Qualifiers
pH	7.51	0.01	1.00	BV,BU

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**18-01-0365-21-F**	**01/06/18 10:20**	**Aqueous**	**GC 48**	**01/09/18**	**01/10/18 01:30**	**180109B01A**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	45	1.00	
C7	ND	45	1.00	
C8	ND	45	1.00	
C9-C10	ND	45	1.00	
C11-C12	ND	45	1.00	
C13-C14	ND	45	1.00	
C15-C16	ND	45	1.00	
C17-C18	ND	45	1.00	
C19-C20	ND	45	1.00	
C21-C22	ND	45	1.00	
C23-C24	ND	45	1.00	
C25-C28	ND	45	1.00	
C29-C32	ND	45	1.00	
C33-C36	ND	45	1.00	
C37-C40	ND	45	1.00	
C41-C44	ND	45	1.00	
C6-C44 Total	47	45	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	95	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-472-713**	**N/A**	**Aqueous**	**GC 48**	**01/09/18**	**01/09/18 10:03**	**180109B01A**

Parameter	Result	RL	DF	Qualifiers
C6	ND	50	1.00	
C7	ND	50	1.00	
C8	ND	50	1.00	
C9-C10	ND	50	1.00	
C11-C12	ND	50	1.00	
C13-C14	ND	50	1.00	
C15-C16	ND	50	1.00	
C17-C18	ND	50	1.00	
C19-C20	ND	50	1.00	
C21-C22	ND	50	1.00	
C23-C24	ND	50	1.00	
C25-C28	ND	50	1.00	
C29-C32	ND	50	1.00	
C33-C36	ND	50	1.00	
C37-C40	ND	50	1.00	
C41-C44	ND	50	1.00	
C6-C44 Total	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	113	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-02C-15'	**18-01-0365-1-A**	**01/06/18 11:12**	**Solid**	**GC 49**	**01/10/18**	**01/10/18 16:49**	**180110B05A**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	6.5	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	98	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

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Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-490-2959**	**N/A**	**Solid**	**GC 49**	**01/10/18**	**01/10/18 15:50**	**180110B05A**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	87	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-02C-15'	**18-01-0365-1-A**	**01/06/18 11:12**	**Solid**	**ICP 7300**	**01/19/18**	**01/22/18 11:34**	**180119L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Arsenic	3.17	0.735	0.980	
Barium	260	0.490	0.980	
Beryllium	ND	0.245	0.980	
Cadmium	0.663	0.490	0.980	
Chromium	18.5	0.245	0.980	
Cobalt	3.75	0.245	0.980	
Copper	8.77	0.490	0.980	
Lead	2.81	0.490	0.980	
Molybdenum	1.78	0.245	0.980	
Nickel	14.6	0.245	0.980	
Selenium	ND	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	32.7	0.245	0.980	
Zinc	30.3	0.980	0.980	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-25802**	**N/A**	**Solid**	**ICP 7300**	**01/19/18**	**01/22/18 11:30**	**180119L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.721	0.962	
Arsenic	ND	0.721	0.962	
Barium	ND	0.481	0.962	
Beryllium	ND	0.240	0.962	
Cadmium	ND	0.481	0.962	
Chromium	ND	0.240	0.962	
Cobalt	ND	0.240	0.962	
Copper	ND	0.481	0.962	
Lead	ND	0.481	0.962	
Molybdenum	ND	0.240	0.962	
Nickel	ND	0.240	0.962	
Selenium	ND	0.721	0.962	
Silver	ND	0.240	0.962	
Thallium	ND	0.721	0.962	
Vanadium	ND	0.240	0.962	
Zinc	ND	0.962	0.962	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3010A Total
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**18-01-0365-21-G**	**01/06/18 10:20**	**Aqueous**	**ICP 8300**	**01/15/18**	**01/16/18 17:56**	**180115LA3**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.0150	1.00	
Arsenic	ND	0.0100	1.00	
Barium	ND	0.0100	1.00	
Beryllium	ND	0.0100	1.00	
Cadmium	ND	0.0100	1.00	
Chromium	ND	0.0100	1.00	
Cobalt	ND	0.0100	1.00	
Copper	ND	0.0100	1.00	
Lead	ND	0.0100	1.00	
Molybdenum	ND	0.0100	1.00	
Nickel	ND	0.0100	1.00	
Selenium	ND	0.0150	1.00	
Silver	ND	0.00500	1.00	
Thallium	ND	0.0150	1.00	
Vanadium	ND	0.0100	1.00	
Zinc	ND	0.0100	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3010A Total
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-003-16747**	**N/A**	**Aqueous**	**ICP 8300**	**01/15/18**	**01/15/18 18:10**	**180115LA3**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.0150	1.00	
Arsenic	ND	0.0100	1.00	
Barium	ND	0.0100	1.00	
Beryllium	ND	0.0100	1.00	
Cadmium	ND	0.0100	1.00	
Chromium	ND	0.0100	1.00	
Cobalt	ND	0.0100	1.00	
Copper	ND	0.0100	1.00	
Lead	ND	0.0100	1.00	
Molybdenum	ND	0.0100	1.00	
Nickel	ND	0.0100	1.00	
Selenium	ND	0.0150	1.00	
Silver	ND	0.00500	1.00	
Thallium	ND	0.0150	1.00	
Vanadium	ND	0.0100	1.00	
Zinc	ND	0.0100	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 7470A Total
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**18-01-0365-21-G**	**01/06/18 10:20**	**Aqueous**	**Mercury 07**	**01/13/18**	**01/16/18 17:30**	**180112LA1**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.000500	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-04-008-8443**	**N/A**	**Aqueous**	**Mercury 07**	**01/12/18**	**01/15/18 13:45**	**180112LA1**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.000500	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-02C-15'	**18-01-0365-1-A**	**01/06/18 11:12**	**Solid**	**Mercury 08**	**01/18/18**	**01/18/18 18:39**	**180118L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0781	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-3591**	**N/A**	**Solid**	**Mercury 08**	**01/18/18**	**01/18/18 18:21**	**180118L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

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3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-02C-15'	**18-01-0365-1-A**	**01/06/18 11:12**	**Solid**	**GC 41**	**01/11/18**	**01/12/18 17:50**	**180111L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	92	24-168	
2,4,5,6-Tetrachloro-m-Xylene	80	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

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3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-2870**	**N/A**	**Solid**	**GC 41**	**01/11/18**	**01/12/18 12:32**	**180111L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	97	24-168	
2,4,5,6-Tetrachloro-m-Xylene	92	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**18-01-0365-21-C**	**01/06/18 10:20**	**Aqueous**	**GC 44**	**01/09/18**	**01/12/18 15:55**	**180109L05B**

Parameter	Result	RL	DF	Qualifiers
Alpha-BHC	ND	0.095	1.00	
Gamma-BHC	ND	0.095	1.00	
Beta-BHC	ND	0.095	1.00	
Heptachlor	ND	0.095	1.00	
Delta-BHC	ND	0.095	1.00	
Aldrin	ND	0.095	1.00	
Heptachlor Epoxide	ND	0.095	1.00	
Endosulfan I	ND	0.095	1.00	
Dieldrin	ND	0.095	1.00	
4,4'-DDE	ND	0.095	1.00	
Endrin	ND	0.095	1.00	
Endrin Aldehyde	ND	0.095	1.00	
4,4'-DDD	ND	0.095	1.00	
Endosulfan II	ND	0.095	1.00	
4,4'-DDT	ND	0.095	1.00	
Endosulfan Sulfate	ND	0.095	1.00	
Methoxychlor	ND	0.095	1.00	
Chlordane	ND	0.95	1.00	
Toxaphene	ND	1.9	1.00	
Endrin Ketone	ND	0.095	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	68	50-135	
2,4,5,6-Tetrachloro-m-Xylene	75	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-529-1001**	**N/A**	**Aqueous**	**GC 44**	**01/09/18**	**01/12/18 09:01**	**180109L05B**

Parameter	Result	RL	DF	Qualifiers
Alpha-BHC	ND	0.10	1.00	
Gamma-BHC	ND	0.10	1.00	
Beta-BHC	ND	0.10	1.00	
Heptachlor	ND	0.10	1.00	
Delta-BHC	ND	0.10	1.00	
Aldrin	ND	0.10	1.00	
Heptachlor Epoxide	ND	0.10	1.00	
Endosulfan I	ND	0.10	1.00	
Dieldrin	ND	0.10	1.00	
4,4'-DDE	ND	0.10	1.00	
Endrin	ND	0.10	1.00	
Endrin Aldehyde	ND	0.10	1.00	
4,4'-DDD	ND	0.10	1.00	
Endosulfan II	ND	0.10	1.00	
4,4'-DDT	ND	0.10	1.00	
Endosulfan Sulfate	ND	0.10	1.00	
Methoxychlor	ND	0.10	1.00	
Chlordane	ND	1.0	1.00	
Toxaphene	ND	2.0	1.00	
Endrin Ketone	ND	0.10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	79	50-135	
2,4,5,6-Tetrachloro-m-Xylene	63	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-02C-15'	**18-01-0365-1-A**	**01/06/18 11:12**	**Solid**	**GC 58**	**01/11/18**	**01/12/18 02:01**	**180111L04**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	85	24-168	
2,4,5,6-Tetrachloro-m-Xylene	77	25-145	

Method Blank	099-12-535-4508	N/A	Solid	GC 58	01/11/18	01/11/18 23:01	180111L04

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	86	24-168	
2,4,5,6-Tetrachloro-m-Xylene	84	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**18-01-0365-21-C**	**01/06/18 10:20**	**Aqueous**	**GC 58**	**01/09/18**	**01/11/18 22:43**	**180109L05H**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	0.95	1.00	
Aroclor-1221	ND	0.95	1.00	
Aroclor-1232	ND	0.95	1.00	
Aroclor-1242	ND	0.95	1.00	
Aroclor-1248	ND	0.95	1.00	
Aroclor-1254	ND	0.95	1.00	
Aroclor-1260	ND	0.95	1.00	
Aroclor-1262	ND	0.95	1.00	
Aroclor-1268	ND	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	50-135	
2,4,5,6-Tetrachloro-m-Xylene	84	50-135	

Method Blank	099-12-533-1356	N/A	Aqueous	GC 58	01/09/18	01/11/18 14:18	180109L05H

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	1.0	1.00	
Aroclor-1221	ND	1.0	1.00	
Aroclor-1232	ND	1.0	1.00	
Aroclor-1242	ND	1.0	1.00	
Aroclor-1248	ND	1.0	1.00	
Aroclor-1254	ND	1.0	1.00	
Aroclor-1260	ND	1.0	1.00	
Aroclor-1262	ND	1.0	1.00	
Aroclor-1268	ND	1.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	50-135	
2,4,5,6-Tetrachloro-m-Xylene	66	50-135	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**18-01-0365-21-B**	**01/06/18 10:20**	**Aqueous**	**GC 68**	**01/10/18**	**01/13/18 03:47**	**180110L10**

Parameter	Result	RL	DF	Qualifiers
Azinphos Methyl	ND	0.0048	1.00	
Bolstar	ND	0.0048	1.00	
Chlorpyrifos	ND	0.0048	1.00	
Coumaphos	ND	0.0048	1.00	
Diazinon	ND	0.0048	1.00	
Dichlorvos	ND	0.0048	1.00	
Disulfoton	ND	0.0095	1.00	
Ethoprop	ND	0.0048	1.00	
Fensulfothion	ND	0.0048	1.00	
Fenthion	ND	0.0048	1.00	
Merphos	ND	0.0048	1.00	
Methyl Parathion	ND	0.0048	1.00	
Mevinphos	ND	0.0048	1.00	
Naled	ND	0.038	1.00	
Phorate	ND	0.0048	1.00	
Ronnel	ND	0.0048	1.00	
Stirophos	ND	0.019	1.00	
Tokuthion	ND	0.0048	1.00	
Trichloronate	ND	0.0048	1.00	
Demeton-o/s	ND	0.0048	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	87	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-963-225**	**N/A**	**Aqueous**	**GC 68**	**01/10/18**	**01/12/18 11:33**	**180110L10**

Parameter	Result	RL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	1.00	
Bolstar	ND	0.0050	1.00	
Chlorpyrifos	ND	0.0050	1.00	
Coumaphos	ND	0.0050	1.00	
Diazinon	ND	0.0050	1.00	
Dichlorvos	ND	0.0050	1.00	
Disulfoton	ND	0.010	1.00	
Ethoprop	ND	0.0050	1.00	
Fensulfothion	ND	0.0050	1.00	
Fenthion	ND	0.0050	1.00	
Merphos	ND	0.0050	1.00	
Methyl Parathion	ND	0.0050	1.00	
Mevinphos	ND	0.0050	1.00	
Naled	ND	0.040	1.00	
Phorate	ND	0.0050	1.00	
Ronnel	ND	0.0050	1.00	
Stirophos	ND	0.020	1.00	
Tokuthion	ND	0.0050	1.00	
Trichloronate	ND	0.0050	1.00	
Demeton-o/s	ND	0.0050	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	67	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-02C-15'	**18-01-0365-1-A**	**01/06/18 11:12**	**Solid**	**GC 68**	**01/10/18**	**01/13/18 02:59**	**180110L02**

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	0.50	1.00	
Azinphos Methyl	ND	0.50	1.00	
Bolstar	ND	0.50	1.00	
Chlorpyrifos	ND	0.50	1.00	
Coumaphos	ND	0.50	1.00	
Diazinon	ND	0.50	1.00	
Dichlorvos	ND	0.50	1.00	
Disulfoton	ND	0.50	1.00	
Ethoprop	ND	0.50	1.00	
Fensulfothion	ND	0.50	1.00	
Fenthion	ND	0.50	1.00	
Merphos	ND	0.50	1.00	
Methyl Parathion	ND	0.50	1.00	
Mevinphos	ND	0.50	1.00	
Naled	ND	4.0	1.00	
Phorate	ND	0.50	1.00	
Ronnel	ND	0.50	1.00	
Stirophos	ND	2.0	1.00	
Tokuthion	ND	0.50	1.00	
Trichloronate	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	73	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-973-360**	**N/A**	**Solid**	**GC 68**	**01/10/18**	**01/13/18 00:36**	**180110L02**

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	0.50	1.00	
Azinphos Methyl	ND	0.50	1.00	
Bolstar	ND	0.50	1.00	
Chlorpyrifos	ND	0.50	1.00	
Coumaphos	ND	0.50	1.00	
Diazinon	ND	0.50	1.00	
Dichlorvos	ND	0.50	1.00	
Disulfoton	ND	0.50	1.00	
Ethoprop	ND	0.50	1.00	
Fensulfothion	ND	0.50	1.00	
Fenthion	ND	0.50	1.00	
Merphos	ND	0.50	1.00	
Methyl Parathion	ND	0.50	1.00	
Mevinphos	ND	0.50	1.00	
Naled	ND	4.0	1.00	
Phorate	ND	0.50	1.00	
Ronnel	ND	0.50	1.00	
Stirophos	ND	2.0	1.00	
Tokuthion	ND	0.50	1.00	
Trichloronate	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	66	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-02C-15'	**18-01-0365-1-A**	**01/06/18 11:12**	**Solid**	**GC 40**	**01/12/18**	**01/16/18 04:49**	**180112L10**

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	250	1.00	
Dicamba	ND	10	1.00	
MCPP	ND	10000	1.00	
MCPA	ND	10000	1.00	
Dichlorprop	ND	100	1.00	
2,4-D	ND	100	1.00	
2,4,5-TP (Silvex)	ND	10	1.00	
2,4,5-T	ND	10	1.00	
2,4-DB	ND	100	1.00	
Dinoseb	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	108	44-146	

Method Blank	**095-01-033-1539**	**N/A**	**Solid**	**GC 40**	**01/12/18**	**01/15/18 23:49**	**180112L10**

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	250	1.00	
Dicamba	ND	10	1.00	
MCPP	ND	10000	1.00	
MCPA	ND	10000	1.00	
Dichlorprop	ND	100	1.00	
2,4-D	ND	100	1.00	
2,4,5-TP (Silvex)	ND	10	1.00	
2,4,5-T	ND	10	1.00	
2,4-DB	ND	100	1.00	
Dinoseb	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	98	44-146	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**18-01-0365-21-E**	**01/06/18 10:20**	**Aqueous**	**GC 40**	**01/10/18**	**01/15/18 16:08**	**180110L05**

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	13	1.00	
Dicamba	ND	0.50	1.00	
MCPP	ND	500	1.00	
MCPA	ND	500	1.00	
Dichlorprop	ND	5.0	1.00	
2,4-D	ND	5.0	1.00	
2,4,5-TP (Silvex)	ND	0.50	1.00	
2,4,5-T	ND	0.50	1.00	
2,4-DB	ND	5.0	1.00	
Dinoseb	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	107	0-123	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-034-784**	**N/A**	**Aqueous**	**GC 40**	**01/10/18**	**01/15/18 14:36**	**180110L05**

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	13	1.00	
Dicamba	ND	0.50	1.00	
MCPP	ND	500	1.00	
MCPA	ND	500	1.00	
Dichlorprop	ND	5.0	1.00	
2,4-D	ND	5.0	1.00	
2,4,5-TP (Silvex)	ND	0.50	1.00	
2,4,5-T	ND	0.50	1.00	
2,4-DB	ND	5.0	1.00	
Dinoseb	ND	2.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	92	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**18-01-0365-21-E**	**01/06/18 10:20**	**Aqueous**	**GC/MS SS**	**01/10/18**	**01/12/18 13:33**	**180110L11A**

Parameter	Result	RL	DF	Qualifiers
Carbazole	ND	9.1	1.00	
Acenaphthene	ND	9.1	1.00	
Acenaphthylene	ND	9.1	1.00	
Aniline	ND	9.1	1.00	
Anthracene	ND	9.1	1.00	
Azobenzene	ND	9.1	1.00	
Benzidine	ND	45	1.00	
Benzo (a) Anthracene	ND	9.1	1.00	
Benzo (a) Pyrene	ND	9.1	1.00	
Benzo (b) Fluoranthene	ND	9.1	1.00	
Benzo (g,h,i) Perylene	ND	9.1	1.00	
Benzo (k) Fluoranthene	ND	9.1	1.00	
Benzoic Acid	ND	45	1.00	
Benzyl Alcohol	ND	9.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.1	1.00	
Bis(2-Chloroethyl) Ether	ND	23	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.1	1.00	
Butyl Benzyl Phthalate	ND	9.1	1.00	
4-Chloro-3-Methylphenol	ND	9.1	1.00	
4-Chloroaniline	ND	9.1	1.00	
2-Chloronaphthalene	ND	9.1	1.00	
2-Chlorophenol	ND	9.1	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.1	1.00	
Chrysene	ND	9.1	1.00	
Di-n-Butyl Phthalate	ND	9.1	1.00	
Di-n-Octyl Phthalate	ND	9.1	1.00	
Dibenz (a,h) Anthracene	ND	9.1	1.00	
Dibenzofuran	ND	9.1	1.00	
1,2-Dichlorobenzene	ND	9.1	1.00	
1,3-Dichlorobenzene	ND	9.1	1.00	
1,4-Dichlorobenzene	ND	9.1	1.00	
3,3'-Dichlorobenzidine	ND	23	1.00	
2,4-Dichlorophenol	ND	9.1	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: Solana Torrance

Parameter	Result	RL	DF	Qualifiers
Diethyl Phthalate	ND	9.1	1.00	
Dimethyl Phthalate	ND	9.1	1.00	
2,4-Dimethylphenol	ND	9.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	45	1.00	
2,4-Dinitrophenol	ND	45	1.00	
2,4-Dinitrotoluene	ND	9.1	1.00	
2,6-Dinitrotoluene	ND	9.1	1.00	
Fluoranthene	ND	9.1	1.00	
Fluorene	ND	9.1	1.00	
Hexachloro-1,3-Butadiene	ND	9.1	1.00	
Hexachlorobenzene	ND	9.1	1.00	
Hexachlorocyclopentadiene	ND	23	1.00	
Hexachloroethane	ND	9.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.1	1.00	
Isophorone	ND	9.1	1.00	
2-Methylnaphthalene	ND	9.1	1.00	
1-Methylnaphthalene	ND	9.1	1.00	
2-Methylphenol	ND	9.1	1.00	
3/4-Methylphenol	ND	9.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.1	1.00	
N-Nitrosodimethylamine	ND	9.1	1.00	
N-Nitrosodiphenylamine	ND	9.1	1.00	
Naphthalene	ND	9.1	1.00	
4-Nitroaniline	ND	9.1	1.00	
3-Nitroaniline	ND	9.1	1.00	
2-Nitroaniline	ND	9.1	1.00	
Nitrobenzene	ND	23	1.00	
4-Nitrophenol	ND	9.1	1.00	
2-Nitrophenol	ND	9.1	1.00	
Pentachlorophenol	ND	9.1	1.00	
Phenanthrene	ND	9.1	1.00	
Phenol	ND	9.1	1.00	
Pyrene	ND	9.1	1.00	
Pyridine	ND	9.1	1.00	
1,2,4-Trichlorobenzene	ND	9.1	1.00	
2,4,6-Trichlorophenol	ND	9.1	1.00	
2,4,5-Trichlorophenol	ND	9.1	1.00	
2,6-Dichlorophenol	ND	9.1	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants	Date Received:	01/08/18
3210 El Camino Real, Suite 150	Work Order:	18-01-0365
Irvine, CA 92602-1365	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: Solana Torrance		Page 3 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	68	33-120	
2-Fluorophenol	61	24-120	
Nitrobenzene-d5	72	38-120	
p-Terphenyl-d14	80	41-137	
Phenol-d6	45	16-120	
2,4,6-Tribromophenol	76	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: Solana Torrance

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-4497**	**N/A**	**Aqueous**	**GC/MS SS**	**01/10/18**	**01/11/18 11:22**	**180110L11A**

Parameter	Result	RL	DF	Qualifiers
Carbazole	ND	10	1.00	
Acenaphthene	ND	10	1.00	
Acenaphthylene	ND	10	1.00	
Aniline	ND	10	1.00	
Anthracene	ND	10	1.00	
Azobenzene	ND	10	1.00	
Benzidine	ND	50	1.00	
Benzo (a) Anthracene	ND	10	1.00	
Benzo (a) Pyrene	ND	10	1.00	
Benzo (b) Fluoranthene	ND	10	1.00	
Benzo (g,h,i) Perylene	ND	10	1.00	
Benzo (k) Fluoranthene	ND	10	1.00	
Benzoic Acid	ND	50	1.00	
Benzyl Alcohol	ND	10	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	1.00	
Bis(2-Chloroethyl) Ether	ND	25	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	1.00	
Butyl Benzyl Phthalate	ND	10	1.00	
4-Chloro-3-Methylphenol	ND	10	1.00	
4-Chloroaniline	ND	10	1.00	
2-Chloronaphthalene	ND	10	1.00	
2-Chlorophenol	ND	10	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	1.00	
Chrysene	ND	10	1.00	
Di-n-Butyl Phthalate	ND	10	1.00	
Di-n-Octyl Phthalate	ND	10	1.00	
Dibenz (a,h) Anthracene	ND	10	1.00	
Dibenzofuran	ND	10	1.00	
1,2-Dichlorobenzene	ND	10	1.00	
1,3-Dichlorobenzene	ND	10	1.00	
1,4-Dichlorobenzene	ND	10	1.00	
3,3'-Dichlorobenzidine	ND	25	1.00	
2,4-Dichlorophenol	ND	10	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: Solana Torrance

Parameter	Result	RL	DF	Qualifiers
Diethyl Phthalate	ND	10	1.00	
Dimethyl Phthalate	ND	10	1.00	
2,4-Dimethylphenol	ND	10	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	1.00	
2,4-Dinitrophenol	ND	50	1.00	
2,4-Dinitrotoluene	ND	10	1.00	
2,6-Dinitrotoluene	ND	10	1.00	
Fluoranthene	ND	10	1.00	
Fluorene	ND	10	1.00	
Hexachloro-1,3-Butadiene	ND	10	1.00	
Hexachlorobenzene	ND	10	1.00	
Hexachlorocyclopentadiene	ND	25	1.00	
Hexachloroethane	ND	10	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	1.00	
Isophorone	ND	10	1.00	
2-Methylnaphthalene	ND	10	1.00	
1-Methylnaphthalene	ND	10	1.00	
2-Methylphenol	ND	10	1.00	
3/4-Methylphenol	ND	10	1.00	
N-Nitroso-di-n-propylamine	ND	10	1.00	
N-Nitrosodimethylamine	ND	10	1.00	
N-Nitrosodiphenylamine	ND	10	1.00	
Naphthalene	ND	10	1.00	
4-Nitroaniline	ND	10	1.00	
3-Nitroaniline	ND	10	1.00	
2-Nitroaniline	ND	10	1.00	
Nitrobenzene	ND	25	1.00	
4-Nitrophenol	ND	10	1.00	
2-Nitrophenol	ND	10	1.00	
Pentachlorophenol	ND	10	1.00	
Phenanthrene	ND	10	1.00	
Phenol	ND	10	1.00	
Pyrene	ND	10	1.00	
Pyridine	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	10	1.00	
2,4,6-Trichlorophenol	ND	10	1.00	
2,4,5-Trichlorophenol	ND	10	1.00	
2,6-Dichlorophenol	ND	10	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants	Date Received:	01/08/18
3210 El Camino Real, Suite 150	Work Order:	18-01-0365
Irvine, CA 92602-1365	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: Solana Torrance		Page 6 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	75	33-120	
2-Fluorophenol	55	24-120	
Nitrobenzene-d5	82	38-120	
p-Terphenyl-d14	96	41-137	
Phenol-d6	35	16-120	
2,4,6-Tribromophenol	86	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-02C-15'	**18-01-0365-1-A**	**01/06/18 11:12**	**Solid**	**GC/MS SS**	**01/11/18**	**01/11/18 17:55**	**170111L05**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dichlorophenol	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants	Date Received:	01/08/18
3210 El Camino Real, Suite 150	Work Order:	18-01-0365
Irvine, CA 92602-1365	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Solana Torrance		Page 3 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	70	27-120	
2-Fluorophenol	66	25-120	
Nitrobenzene-d5	69	33-123	
p-Terphenyl-d14	93	27-159	
Phenol-d6	66	26-122	
2,4,6-Tribromophenol	84	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-4090**	**N/A**	**Solid**	**GC/MS SS**	**01/11/18**	**01/11/18 16:10**	**170111L05**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dichlorophenol	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Kennedy/Jenks Consultants	Date Received:	01/08/18
3210 El Camino Real, Suite 150	Work Order:	18-01-0365
Irvine, CA 92602-1365	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: Solana Torrance		Page 6 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	82	27-120	
2-Fluorophenol	85	25-120	
Nitrobenzene-d5	86	33-123	
p-Terphenyl-d14	93	27-159	
Phenol-d6	86	26-122	
2,4,6-Tribromophenol	90	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3060A
Method: EPA 7199

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SV-02C-15'	**Sample**	**Solid**	**IC 11**	**01/09/18**	**01/09/18 18:18**	**180109S01P**
SV-02C-15'	**Matrix Spike**	**Solid**	**IC 11**	**01/09/18**	**01/09/18 18:27**	**180109S01P**
SV-02C-15'	**Matrix Spike Duplicate**	**Solid**	**IC 11**	**01/09/18**	**01/09/18 18:36**	**180109S01P**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	ND	20000	9161	46	7819	39	75-125	16	0-25	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 3545
		Method:	EPA 8310
Project: Solana Torrance			Page 2 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-01-0373-2	**Sample**	**Solid**	**HPLC 5**	**01/10/18**	**01/12/18 05:54**	**180110S03**
18-01-0373-2	**Matrix Spike**	**Solid**	**HPLC 5**	**01/10/18**	**01/12/18 03:45**	**180110S03**
18-01-0373-2	**Matrix Spike Duplicate**	**Solid**	**HPLC 5**	**01/10/18**	**01/12/18 04:17**	**180110S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Naphthalene	1539	100.0	1428	0	1193	0	23-167	18	0-46	3
Acenaphthylene	305.2	100.0	369.7	65	342.7	37	24-120	8	0-47	
Acenaphthene	ND	100.0	231.3	231	490.3	490	16-120	72	0-46	3,4
Fluorene	77.86	100.0	148.2	70	143.5	66	32-120	3	0-44	
Phenanthrene	1752	100.0	1609	0	1362	0	34-120	17	0-38	3
Anthracene	150.3	100.0	189.5	39	224.8	74	27-120	17	0-45	
Fluoranthene	3768	100.0	3044	0	2757	0	32-122	10	0-41	3
Pyrene	5270	100.0	4295	0	3953	0	31-127	8	0-38	3
Benzo (a) Anthracene	962.0	100.0	801.2	0	763.8	0	32-122	5	0-43	3
Chrysene	1222	100.0	959.4	0	940.4	0	30-132	2	0-42	3
Benzo (b) Fluoranthene	1291	100.0	1438	147	1327	36	33-120	8	0-44	3
Benzo (k) Fluoranthene	689.9	100.0	784.9	95	749.0	59	23-149	5	0-44	
Benzo (a) Pyrene	1993	100.0	1779	0	2047	54	12-132	14	0-48	3
Dibenz (a,h) Anthracene	102.1	100.0	263.0	161	1090	987	29-125	122	0-43	3,4
Benzo (g,h,i) Perylene	3177	100.0	2444	0	2721	0	24-132	11	0-42	3
Indeno (1,2,3-c,d) Pyrene	2256	100.0	1709	0	1783	0	29-143	4	0-42	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: Solana Torrance			Page 3 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-01-0413-1	**Sample**	**Solid**	**GC 49**	**01/10/18**	**01/10/18 18:56**	**180110S05**
18-01-0413-1	**Matrix Spike**	**Solid**	**GC 49**	**01/10/18**	**01/10/18 17:29**	**180110S05**
18-01-0413-1	**Matrix Spike Duplicate**	**Solid**	**GC 49**	**01/10/18**	**01/10/18 17:48**	**180110S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	113.7	400.0	338.2	56	333.8	55	64-130	1	0-15	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3050B
Method: EPA 6010B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SV-02C-15'	**Sample**	**Solid**	**ICP 7300**	**01/19/18**	**01/22/18 11:34**	**180119S01**
SV-02C-15'	**Matrix Spike**	**Solid**	**ICP 7300**	**01/19/18**	**01/22/18 11:34**	**180119S01**
SV-02C-15'	**Matrix Spike Duplicate**	**Solid**	**ICP 7300**	**01/19/18**	**01/22/18 11:35**	**180119S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	13.14	53	14.27	57	50-115	8	0-20	
Arsenic	3.174	25.00	29.87	107	31.15	112	75-125	4	0-20	
Barium	260.4	25.00	329.3	4X	329.0	4X	75-125	4X	0-20	Q
Beryllium	ND	25.00	27.45	110	27.44	110	75-125	0	0-20	
Cadmium	0.6626	25.00	27.17	106	27.14	106	75-125	0	0-20	
Chromium	18.54	25.00	48.78	121	48.77	121	75-125	0	0-20	
Cobalt	3.753	25.00	29.71	104	30.52	107	75-125	3	0-20	
Copper	8.765	25.00	37.61	115	37.85	116	75-125	1	0-20	
Lead	2.814	25.00	29.24	106	30.13	109	75-125	3	0-20	
Molybdenum	1.781	25.00	28.83	108	29.62	111	75-125	3	0-20	
Nickel	14.57	25.00	43.76	117	44.98	122	75-125	3	0-20	
Selenium	ND	25.00	26.58	106	27.98	112	75-125	5	0-20	
Silver	ND	12.50	13.48	108	13.46	108	75-125	0	0-20	
Thallium	ND	25.00	25.90	104	26.07	104	75-125	1	0-20	
Vanadium	32.68	25.00	70.90	153	70.88	153	75-125	0	0-20	3
Zinc	30.26	25.00	58.65	114	58.29	112	75-125	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
Project: Solana Torrance			Page 5 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-01-0857-1	**Sample**	**Aqueous**	**ICP 8300**	**01/15/18**	**01/15/18 18:15**	**180115SA3**
18-01-0857-1	**Matrix Spike**	**Aqueous**	**ICP 8300**	**01/15/18**	**01/15/18 18:16**	**180115SA3**
18-01-0857-1	**Matrix Spike Duplicate**	**Aqueous**	**ICP 8300**	**01/15/18**	**01/15/18 18:17**	**180115SA3**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.5000	0.4883	98	0.4943	99	72-132	1	0-10	
Arsenic	ND	0.5000	0.5465	109	0.5374	107	80-140	2	0-11	
Barium	0.06492	0.5000	0.6341	114	0.6380	115	87-123	1	0-6	
Beryllium	ND	0.5000	0.5589	112	0.5615	112	89-119	0	0-8	
Cadmium	ND	0.5000	0.5665	113	0.5738	115	82-124	1	0-7	
Chromium	ND	0.5000	0.5522	110	0.5561	111	86-122	1	0-8	
Cobalt	ND	0.5000	0.5645	113	0.5650	113	83-125	0	0-7	
Copper	ND	0.5000	0.5662	113	0.5699	114	78-126	1	0-7	
Lead	0.01529	0.5000	0.5747	112	0.5833	114	84-120	1	0-7	
Molybdenum	0.01546	0.5000	0.5766	112	0.5827	113	78-126	1	0-7	
Nickel	ND	0.5000	0.5273	105	0.5370	107	84-120	2	0-7	
Selenium	ND	0.5000	0.5468	109	0.5470	109	79-127	0	0-9	
Silver	ND	0.2500	0.2683	107	0.2696	108	86-128	0	0-7	
Thallium	ND	0.5000	0.5624	112	0.5747	115	79-121	2	0-8	
Vanadium	ND	0.5000	0.5437	109	0.5482	110	88-118	1	0-7	
Zinc	0.1538	0.5000	0.7202	113	0.7271	115	89-131	1	0-8	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 7470A Total
		Method:	EPA 7470A
Project: Solana Torrance			Page 6 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-01-0399-1	**Sample**	**Aqueous**	**Mercury 07**	**01/12/18**	**01/15/18 13:49**	**180112SA1**
18-01-0399-1	**Matrix Spike**	**Aqueous**	**Mercury 07**	**01/12/18**	**01/15/18 13:52**	**180112SA1**
18-01-0399-1	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 07**	**01/12/18**	**01/15/18 13:59**	**180112SA1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.01128	113	0.01113	111	55-133	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Solana Torrance			Page 7 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-01-0904-1	**Sample**	**Sludge**	**Mercury 08**	**01/18/18**	**01/18/18 18:25**	**180118S02**
18-01-0904-1	**Matrix Spike**	**Sludge**	**Mercury 08**	**01/18/18**	**01/18/18 18:27**	**180118S02**
18-01-0904-1	**Matrix Spike Duplicate**	**Sludge**	**Mercury 08**	**01/18/18**	**01/18/18 18:30**	**180118S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.7333	88	0.7740	93	71-137	5	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3545
Method: EPA 8081A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
17-12-2138-2	**Sample**	**Solid**	**GC 41**	**01/11/18**	**01/12/18 15:02**	**180111S03**
17-12-2138-2	**Matrix Spike**	**Solid**	**GC 41**	**01/11/18**	**01/12/18 13:32**	**180111S03**
17-12-2138-2	**Matrix Spike Duplicate**	**Solid**	**GC 41**	**01/11/18**	**01/12/18 13:47**	**180111S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	19.29	77	18.17	73	50-135	6	0-25	
Alpha-BHC	ND	25.00	19.25	77	17.74	71	50-135	8	0-25	
Beta-BHC	ND	25.00	18.99	76	18.63	75	50-135	2	0-25	
4,4'-DDD	ND	25.00	27.12	108	27.09	108	50-135	0	0-25	
4,4'-DDE	ND	25.00	21.97	88	21.55	86	50-135	2	0-25	
4,4'-DDT	ND	25.00	15.79	63	18.32	73	50-135	15	0-25	
Delta-BHC	ND	25.00	20.38	82	19.55	78	50-135	4	0-25	
Dieldrin	ND	25.00	22.67	91	22.04	88	50-135	3	0-25	
Endosulfan I	ND	25.00	19.30	77	18.60	74	50-135	4	0-25	
Endosulfan II	ND	25.00	20.95	84	20.82	83	50-135	1	0-25	
Endosulfan Sulfate	ND	25.00	20.17	81	21.06	84	50-135	4	0-25	
Endrin	ND	25.00	20.50	82	20.29	81	50-135	1	0-25	
Endrin Aldehyde	ND	25.00	18.19	73	18.06	72	50-135	1	0-25	
Gamma-BHC	ND	25.00	19.58	78	18.20	73	50-135	7	0-25	
Heptachlor	ND	25.00	17.84	71	16.93	68	50-135	5	0-25	
Heptachlor Epoxide	ND	25.00	19.52	78	18.48	74	50-135	5	0-25	
Methoxychlor	ND	25.00	11.35	45	13.23	53	50-135	15	0-25	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 3545
		Method:	EPA 8082
Project: Solana Torrance			Page 9 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
17-12-2138-6	**Sample**	**Solid**	**GC 58**	**01/11/18**	**01/12/18 01:07**	**180111S04**
17-12-2138-6	**Matrix Spike**	**Solid**	**GC 58**	**01/11/18**	**01/11/18 23:37**	**180111S04**
17-12-2138-6	**Matrix Spike Duplicate**	**Solid**	**GC 58**	**01/11/18**	**01/11/18 23:55**	**180111S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	393.5	394	306.5	306	50-135	25	0-20	3,4
Aroclor-1260	ND	100.0	112.0	112	90.50	90	50-135	21	0-20	4

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 3545
		Method:	EPA 8141A
Project: Solana Torrance			Page 10 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SV-02C-15'	**Sample**	**Solid**	**GC 68**	**01/10/18**	**01/13/18 02:59**	**180110S02**
SV-02C-15'	**Matrix Spike**	**Solid**	**GC 68**	**01/10/18**	**01/13/18 01:24**	**180110S02**
SV-02C-15'	**Matrix Spike Duplicate**	**Solid**	**GC 68**	**01/10/18**	**01/13/18 02:12**	**180110S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	ND	4.000	3.433	86	3.493	87	30-130	2	0-30	
Bolstar	ND	4.000	3.415	85	3.391	85	30-130	1	0-30	
Chlorpyrifos	ND	4.000	2.866	72	2.842	71	30-130	1	0-30	
Coumaphos	ND	4.000	3.082	77	3.084	77	30-130	0	0-30	
Diazinon	ND	4.000	3.238	81	3.161	79	30-130	2	0-30	
Disulfoton	ND	4.000	3.280	82	3.244	81	30-130	1	0-30	
Ethoprop	ND	4.000	2.930	73	2.854	71	30-130	3	0-30	
Fensulfothion	ND	4.000	3.746	94	3.806	95	30-130	2	0-30	
Fenthion	ND	4.000	3.163	79	3.174	79	30-130	0	0-30	
Merphos	ND	4.000	3.059	76	3.106	78	30-130	2	0-30	
Methyl Parathion	ND	4.000	3.473	87	3.505	88	30-130	1	0-30	
Phorate	ND	4.000	3.578	89	3.576	89	30-130	0	0-30	
Ronnel	ND	4.000	2.777	69	2.827	71	30-130	2	0-30	
Stirophos	ND	4.000	3.204	80	3.203	80	30-130	0	0-30	
Tokuthion	ND	4.000	3.099	77	3.095	77	30-130	0	0-30	
Trichloronate	ND	4.000	3.119	78	2.954	74	30-130	5	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 8151A
		Method:	EPA 8151A
Project: Solana Torrance			Page 11 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-01-0175-24	**Sample**	**Solid**	**GC 40**	**01/12/18**	**01/16/18 06:44**	**180112S10**
18-01-0175-24	**Matrix Spike**	**Solid**	**GC 40**	**01/12/18**	**01/16/18 05:12**	**180112S10**
18-01-0175-24	**Matrix Spike Duplicate**	**Solid**	**GC 40**	**01/12/18**	**01/16/18 05:35**	**180112S10**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	ND	400.0	427.0	107	411.0	103	32-146	4	0-37	
2,4,5-T	ND	40.00	32.00	80	33.00	82	27-147	3	0-37	
2,4-DB	ND	400.0	501.0	125	453.0	113	31-151	10	0-42	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 3545
		Method:	EPA 8270C
Project: Solana Torrance			Page 12 of 12

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
17-12-2138-3	**Sample**	**Solid**	**GC/MS SS**	**01/11/18**	**01/11/18 18:33**	**180111S05**
17-12-2138-3	**Matrix Spike**	**Solid**	**GC/MS SS**	**01/11/18**	**01/11/18 20:07**	**180111S05**
17-12-2138-3	**Matrix Spike Duplicate**	**Solid**	**GC/MS SS**	**01/11/18**	**01/11/18 20:26**	**180111S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acenaphthene	ND	10.00	5.780	58	5.526	55	34-148	4	0-20	
Acenaphthylene	ND	10.00	5.787	58	5.483	55	53-120	5	0-20	
Butyl Benzyl Phthalate	ND	10.00	9.257	93	8.621	86	15-189	7	0-20	
4-Chloro-3-Methylphenol	ND	10.00	6.845	68	6.579	66	32-120	4	0-20	
2-Chlorophenol	ND	10.00	3.878	39	3.830	38	53-120	1	0-20	3
1,4-Dichlorobenzene	ND	10.00	2.706	27	2.708	27	43-120	0	0-26	3
Dimethyl Phthalate	0.5383	10.00	6.986	64	6.645	61	44-122	5	0-20	
2,4-Dinitrotoluene	ND	10.00	7.646	76	7.446	74	28-120	3	0-20	
Fluorene	ND	10.00	6.457	65	6.174	62	12-186	4	0-20	
N-Nitroso-di-n-propylamine	ND	10.00	4.153	42	4.142	41	38-140	0	0-20	
Naphthalene	ND	10.00	3.743	37	3.578	36	20-140	5	0-20	
4-Nitrophenol	ND	10.00	6.427	64	6.669	67	14-128	4	0-59	
Pentachlorophenol	ND	10.00	6.693	67	6.662	67	10-124	0	0-20	
Phenol	ND	10.00	4.055	41	4.094	41	22-124	1	0-20	
Pyrene	ND	10.00	8.865	89	8.150	81	31-169	8	0-20	
1,2,4-Trichlorobenzene	ND	10.00	3.564	36	3.429	34	56-120	4	0-20	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Kennedy/Jenks Consultants	Date Received: 01/08/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0365
Irvine, CA 92602-1365	Preparation: N/A
	Method: EPA 9045C
Project: Solana Torrance	Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
18-01-0317-1	**Sample**	**Solid**	**PH 4**	**01/08/18 00:00**	**01/08/18 19:30**	**I0108PHD3**
18-01-0317-1	**Sample Duplicate**	**Solid**	**PH 4**	**01/08/18 00:00**	**01/08/18 19:30**	**I0108PHD3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	7.010	7.160	2	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Kennedy/Jenks Consultants	Date Received: 01/08/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0365
Irvine, CA 92602-1365	Preparation: N/A
	Method: SM 4500 H+ B
Project: Solana Torrance	Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
18-01-0316-1	**Sample**	**Aqueous**	**PH 1**	**N/A**	**01/08/18 20:00**	**I0108PHD1**
18-01-0316-1	**Sample Duplicate**	**Aqueous**	**PH 1**	**N/A**	**01/08/18 20:00**	**I0108PHD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	6.770	6.490	4	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants	Date Received: 01/08/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0365
Irvine, CA 92602-1365	Preparation: EPA 3060A
	Method: EPA 7199
Project: Solana Torrance	Page 1 of 19

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-05-125-3205	**LCS**	**Solid**	**IC 11**	**01/09/18**	**01/09/18 18:01**	**180109L01P**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Chromium, Hexavalent	20000	19700	98	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Kennedy/Jenks Consultants	Date Received: 01/08/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0365
Irvine, CA 92602-1365	Preparation: EPA 3510C
	Method: EPA 8310
Project: Solana Torrance	Page 2 of 19

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-003-2028	**LCS**	**Aqueous**	**HPLC 5**	**01/10/18**	**01/12/18 22:29**	**180110L09**
099-07-003-2028	**LCSD**	**Aqueous**	**HPLC 5**	**01/10/18**	**01/12/18 23:01**	**180110L09**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Naphthalene	2.000	1.381	69	1.475	74	36-144	18-162	7	0-25	
Acenaphthylene	2.000	1.355	68	1.335	67	51-120	40-132	1	0-23	
Acenaphthene	2.000	1.291	65	1.390	69	44-120	31-133	7	0-20	
Fluorene	2.000	1.386	69	1.477	74	52-120	41-131	6	0-21	
Phenanthrene	2.000	1.506	75	1.556	78	58-120	48-130	3	0-21	
Anthracene	2.000	1.301	65	1.320	66	52-120	41-131	1	0-20	
Fluoranthene	2.000	1.705	85	1.745	87	57-120	46-130	2	0-20	
Pyrene	2.000	1.838	92	1.705	85	55-121	44-132	8	0-22	
Benzo (a) Anthracene	2.000	1.531	77	1.554	78	58-120	48-130	1	0-23	
Chrysene	2.000	1.609	80	1.626	81	58-120	48-130	1	0-20	
Benzo (b) Fluoranthene	2.000	1.527	76	1.545	77	55-121	44-132	1	0-23	
Benzo (k) Fluoranthene	2.000	1.552	78	1.569	78	56-122	45-133	1	0-22	
Benzo (a) Pyrene	2.000	1.236	62	1.269	63	43-120	30-133	3	0-24	
Dibenz (a,h) Anthracene	2.000	1.548	77	1.561	78	55-121	44-132	1	0-24	
Benzo (g,h,i) Perylene	2.000	1.569	78	1.588	79	58-120	48-130	1	0-23	
Indeno (1,2,3-c,d) Pyrene	2.000	1.563	78	1.593	80	63-123	53-133	2	0-21	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 3545
		Method:	EPA 8310
Project: Solana Torrance			Page 3 of 19

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-07-002-1933	**LCS**	**Solid**	**HPLC 5**	**01/10/18**	**01/11/18 20:12**	**180110L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Naphthalene	100.0	87.43	87	17-203	0-234	
Acenaphthylene	100.0	86.52	87	50-120	38-132	
Acenaphthene	100.0	82.67	83	41-120	28-133	
Fluorene	100.0	83.91	84	51-120	40-132	
Phenanthrene	100.0	85.06	85	56-120	45-131	
Anthracene	100.0	82.56	83	49-120	37-132	
Fluoranthene	100.0	86.98	87	60-120	50-130	
Pyrene	100.0	92.09	92	61-121	51-131	
Benzo (a) Anthracene	100.0	85.49	85	61-121	51-131	
Chrysene	100.0	87.25	87	61-121	51-131	
Benzo (b) Fluoranthene	100.0	85.40	85	61-121	51-131	
Benzo (k) Fluoranthene	100.0	84.80	85	57-129	45-141	
Benzo (a) Pyrene	100.0	89.17	89	43-120	30-133	
Dibenz (a,h) Anthracene	100.0	83.89	84	59-125	48-136	
Benzo (g,h,i) Perylene	100.0	93.65	94	57-123	46-134	
Indeno (1,2,3-c,d) Pyrene	100.0	87.46	87	64-130	53-141	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Kennedy/Jenks Consultants	Date Received: 01/08/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0365
Irvine, CA 92602-1365	Preparation: EPA 3510C
	Method: EPA 8015B (M)
Project: Solana Torrance	Page 4 of 19

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-472-713	**LCS**	**Aqueous**	**GC 48**	**01/09/18**	**01/09/18 10:24**	**180109B01A**
099-15-472-713	**LCSD**	**Aqueous**	**GC 48**	**01/09/18**	**01/09/18 10:46**	**180109B01A**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	1960	98	1942	97	69-123	1	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: Solana Torrance			Page 5 of 19

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-490-2959	**LCS**	**Solid**	**GC 49**	**01/10/18**	**01/10/18 16:10**	**180110B05A**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	330.0	82	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Solana Torrance			Page 6 of 19

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-25802	**LCS**	**Solid**	**ICP 7300**	**01/19/18**	**01/22/18 11:31**	**180119L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	24.22	97	80-120	73-127	
Arsenic	25.00	24.29	97	80-120	73-127	
Barium	25.00	25.93	104	80-120	73-127	
Beryllium	25.00	24.23	97	80-120	73-127	
Cadmium	25.00	25.53	102	80-120	73-127	
Chromium	25.00	25.26	101	80-120	73-127	
Cobalt	25.00	26.09	104	80-120	73-127	
Copper	25.00	25.61	102	80-120	73-127	
Lead	25.00	26.13	105	80-120	73-127	
Molybdenum	25.00	25.05	100	80-120	73-127	
Nickel	25.00	26.06	104	80-120	73-127	
Selenium	25.00	24.62	98	80-120	73-127	
Silver	12.50	12.31	98	80-120	73-127	
Thallium	25.00	26.01	104	80-120	73-127	
Vanadium	25.00	24.58	98	80-120	73-127	
Zinc	25.00	25.75	103	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
Project: Solana Torrance			Page 7 of 19

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-003-16747	**LCS**	**Aqueous**	**ICP 8300**	**01/15/18**	**01/15/18 18:14**	**180115LA3**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.5000	0.4812	96	80-120	73-127	
Arsenic	0.5000	0.4697	94	80-120	73-127	
Barium	0.5000	0.5344	107	80-120	73-127	
Beryllium	0.5000	0.4889	98	80-120	73-127	
Cadmium	0.5000	0.5181	104	80-120	73-127	
Chromium	0.5000	0.5081	102	80-120	73-127	
Cobalt	0.5000	0.5229	105	80-120	73-127	
Copper	0.5000	0.5110	102	80-120	73-127	
Lead	0.5000	0.5208	104	80-120	73-127	
Molybdenum	0.5000	0.5146	103	80-120	73-127	
Nickel	0.5000	0.4908	98	80-120	73-127	
Selenium	0.5000	0.4828	97	80-120	73-127	
Silver	0.2500	0.2440	98	80-120	73-127	
Thallium	0.5000	0.5249	105	80-120	73-127	
Vanadium	0.5000	0.4956	99	80-120	73-127	
Zinc	0.5000	0.5017	100	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 7470A Total
		Method:	EPA 7470A
Project: Solana Torrance			Page 8 of 19

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-04-008-8443	**LCS**	**Aqueous**	**Mercury 07**	**01/12/18**	**01/15/18 13:47**	**180112LA1**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.01000	0.01079	108	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Solana Torrance			Page 9 of 19

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-3591	**LCS**	**Solid**	**Mercury 08**	**01/18/18**	**01/18/18 18:23**	**180118L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7133	85	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Solana Torrance			Page 10 of 19

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-2870	**LCS**	**Solid**	**GC 41**	**01/11/18**	**01/12/18 12:47**	**180111L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	23.92	96	50-135	36-149	
Alpha-BHC	25.00	24.39	98	50-135	36-149	
Beta-BHC	25.00	23.47	94	50-135	36-149	
4,4'-DDD	25.00	25.09	100	50-135	36-149	
4,4'-DDE	25.00	25.12	100	50-135	36-149	
4,4'-DDT	25.00	25.41	102	50-135	36-149	
Delta-BHC	25.00	24.96	100	50-135	36-149	
Dieldrin	25.00	25.59	102	50-135	36-149	
Endosulfan I	25.00	25.80	103	50-135	36-149	
Endosulfan II	25.00	26.94	108	50-135	36-149	
Endosulfan Sulfate	25.00	25.35	101	50-135	36-149	
Endrin	25.00	24.57	98	50-135	36-149	
Endrin Aldehyde	25.00	25.22	101	50-135	36-149	
Gamma-BHC	25.00	24.87	99	50-135	36-149	
Heptachlor	25.00	24.64	99	50-135	36-149	
Heptachlor Epoxide	25.00	23.99	96	50-135	36-149	
Methoxychlor	25.00	24.75	99	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3510C
Method: EPA 8081A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-1001	**LCS**	**Aqueous**	**GC 44**	**01/09/18**	**01/12/18 09:16**	**180109L05B**
099-12-529-1001	**LCSD**	**Aqueous**	**GC 44**	**01/09/18**	**01/12/18 09:30**	**180109L05B**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.5000	0.4577	92	0.4576	92	50-135	36-149	0	0-25	
Gamma-BHC	0.5000	0.4638	93	0.4617	92	50-135	36-149	0	0-25	
Beta-BHC	0.5000	0.4503	90	0.4488	90	50-135	36-149	0	0-25	
Heptachlor	0.5000	0.4915	98	0.5153	103	50-135	36-149	5	0-25	
Delta-BHC	0.5000	0.4949	99	0.4945	99	50-135	36-149	0	0-25	
Aldrin	0.5000	0.4182	84	0.4225	84	50-135	36-149	1	0-25	
Heptachlor Epoxide	0.5000	0.4465	89	0.4550	91	50-135	36-149	2	0-25	
Endosulfan I	0.5000	0.4937	99	0.4930	99	50-135	36-149	0	0-25	
Dieldrin	0.5000	0.4822	96	0.4820	96	50-135	36-149	0	0-25	
4,4'-DDE	0.5000	0.4662	93	0.4662	93	50-135	36-149	0	0-25	
Endrin	0.5000	0.4711	94	0.4814	96	50-135	36-149	2	0-25	
Endrin Aldehyde	0.5000	0.4711	94	0.4869	97	50-135	36-149	3	0-25	
4,4'-DDD	0.5000	0.4731	95	0.4802	96	50-135	36-149	1	0-25	
Endosulfan II	0.5000	0.5244	105	0.5296	106	50-135	36-149	1	0-25	
4,4'-DDT	0.5000	0.5047	101	0.5071	101	50-135	36-149	0	0-25	
Endosulfan Sulfate	0.5000	0.4441	89	0.4455	89	50-135	36-149	0	0-25	
Methoxychlor	0.5000	0.4829	97	0.4913	98	50-135	36-149	2	0-25	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 3545
		Method:	EPA 8082
Project: Solana Torrance			Page 12 of 19

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-4508	**LCS**	**Solid**	**GC 58**	**01/11/18**	**01/11/18 23:19**	**180111L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	92.50	92	50-135	
Aroclor-1260	100.0	82.00	82	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Kennedy/Jenks Consultants	Date Received: 01/08/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0365
Irvine, CA 92602-1365	Preparation: EPA 3510C
	Method: EPA 8082
Project: Solana Torrance	Page 13 of 19

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-1356	**LCS**	**Aqueous**	**GC 58**	**01/09/18**	**01/11/18 14:36**	**180109L05H**
099-12-533-1356	**LCSD**	**Aqueous**	**GC 58**	**01/09/18**	**01/11/18 14:54**	**180109L05H**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2.000	1.870	94	1.880	94	50-135	1	0-25	
Aroclor-1260	2.000	1.650	82	1.710	86	50-135	4	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 3510C
		Method:	EPA 8141A
Project: Solana Torrance			Page 14 of 19

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-963-225	**LCS**	**Aqueous**	**GC 68**	**01/10/18**	**01/12/18 12:21**	**180110L10**
099-15-963-225	**LCSD**	**Aqueous**	**GC 68**	**01/10/18**	**01/12/18 13:09**	**180110L10**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	0.04000	0.02740	68	0.02297	57	30-130	13-147	18	0-30	
Bolstar	0.04000	0.02957	74	0.02533	63	30-130	13-147	15	0-30	
Chlorpyrifos	0.04000	0.02602	65	0.02165	54	30-130	13-147	18	0-30	
Coumaphos	0.04000	0.02644	66	0.02247	56	30-130	13-147	16	0-30	
Diazinon	0.04000	0.03225	81	0.02463	62	30-130	13-147	27	0-30	
Disulfoton	0.04000	0.03109	78	0.02595	65	30-130	13-147	18	0-30	
Ethoprop	0.04000	0.02886	72	0.02381	60	30-130	13-147	19	0-30	
Fensulfothion	0.04000	0.03038	76	0.02523	63	30-130	13-147	19	0-30	
Fenthion	0.04000	0.02795	70	0.02385	60	30-130	13-147	16	0-30	
Merphos	0.04000	0.02873	72	0.02261	57	30-130	13-147	24	0-30	
Methyl Parathion	0.04000	0.03063	77	0.02670	67	30-130	13-147	14	0-30	
Phorate	0.04000	0.03440	86	0.02883	72	30-130	13-147	18	0-30	
Ronnel	0.04000	0.02572	64	0.02150	54	30-130	13-147	18	0-30	
Stirophos	0.04000	0.02691	67	0.02311	58	30-130	13-147	15	0-30	
Tokuthion	0.04000	0.02762	69	0.02352	59	30-130	13-147	16	0-30	
Trichloronate	0.04000	0.02630	66	0.02023	51	30-130	13-147	26	0-30	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 3545
		Method:	EPA 8141A
Project: Solana Torrance			Page 15 of 19

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-973-360	**LCS**	**Solid**	**GC 68**	**01/10/18**	**01/12/18 23:49**	**180110L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Azinphos Methyl	4.000	2.976	74	30-130	13-147	
Bolstar	4.000	3.172	79	30-130	13-147	
Chlorpyrifos	4.000	2.610	65	30-130	13-147	
Coumaphos	4.000	2.879	72	30-130	13-147	
Diazinon	4.000	2.917	73	30-130	13-147	
Disulfoton	4.000	2.997	75	30-130	13-147	
Ethoprop	4.000	2.767	69	30-130	13-147	
Fensulfothion	4.000	3.150	79	30-130	13-147	
Fenthion	4.000	2.823	71	30-130	13-147	
Merphos	4.000	2.987	75	30-130	13-147	
Methyl Parathion	4.000	3.065	77	30-130	13-147	
Phorate	4.000	3.404	85	30-130	13-147	
Ronnel	4.000	2.639	66	30-130	13-147	
Stirophos	4.000	2.835	71	30-130	13-147	
Tokuthion	4.000	2.841	71	30-130	13-147	
Trichloronate	4.000	2.697	67	30-130	13-147	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 8151A
		Method:	EPA 8151A
Project: Solana Torrance			Page 16 of 19

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
095-01-033-1539	**LCS**	**Solid**	**GC 40**	**01/12/18**	**01/16/18 00:12**	**180112L10**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
2,4-D	400.0	365.0	91	49-127	
2,4,5-T	40.00	36.00	90	31-145	
2,4-DB	400.0	372.0	93	48-132	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Kennedy/Jenks Consultants	Date Received: 01/08/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0365
Irvine, CA 92602-1365	Preparation: EPA 8151A
	Method: EPA 8151A
Project: Solana Torrance	Page 17 of 19

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-034-784	**LCS**	**Aqueous**	**GC 40**	**01/10/18**	**01/15/18 14:59**	**180110L05**
095-01-034-784	**LCSD**	**Aqueous**	**GC 40**	**01/10/18**	**01/15/18 15:22**	**180110L05**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	20.00	21.50	108	21.70	108	46-142	1	0-25	
2,4,5-T	2.000	2.050	102	2.100	105	45-153	2	0-28	
2,4-DB	20.00	22.20	111	22.25	111	44-146	0	0-28	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3510C
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-4497	**LCS**	**Aqueous**	**GC/MS SS**	**01/10/18**	**01/11/18 11:41**	**180110L11A**
095-01-003-4497	**LCSD**	**Aqueous**	**GC/MS SS**	**01/10/18**	**01/11/18 12:02**	**180110L11A**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acenaphthene	200.0	156.5	78	149.5	75	61-120	51-130	5	0-20	
Acenaphthylene	200.0	157.9	79	149.9	75	55-120	44-131	5	0-20	
Butyl Benzyl Phthalate	200.0	171.2	86	165.0	83	56-122	45-133	4	0-20	
4-Chloro-3-Methylphenol	200.0	155.1	78	152.8	76	52-120	41-131	2	0-20	
2-Chlorophenol	200.0	141.5	71	135.2	68	47-120	35-132	5	0-20	
1,4-Dichlorobenzene	200.0	141.7	71	137.1	69	36-120	22-134	3	0-20	
Dimethyl Phthalate	200.0	152.5	76	145.5	73	60-120	50-130	5	0-20	
2,4-Dinitrotoluene	200.0	175.9	88	168.8	84	61-121	51-131	4	0-20	
Fluorene	200.0	157.6	79	153.6	77	67-120	58-129	3	0-20	
N-Nitroso-di-n-propylamine	200.0	140.5	70	138.5	69	39-123	25-137	1	0-20	
Naphthalene	200.0	153.7	77	148.0	74	54-120	43-131	4	0-20	
4-Nitrophenol	200.0	44.59	22	41.39	21	14-120	0-138	7	0-20	
Pentachlorophenol	200.0	87.06	44	82.47	41	31-127	15-143	5	0-20	
Phenol	200.0	68.03	34	65.21	33	17-120	0-137	4	0-20	
Pyrene	200.0	171.1	86	165.9	83	58-124	47-135	3	0-20	
1,2,4-Trichlorobenzene	200.0	154.9	77	149.6	75	49-120	37-132	3	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants		Date Received:	01/08/18
3210 El Camino Real, Suite 150		Work Order:	18-01-0365
Irvine, CA 92602-1365		Preparation:	EPA 3545
		Method:	EPA 8270C
Project: Solana Torrance			Page 19 of 19

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-549-4090	**LCS**	**Solid**	**GC/MS SS**	**01/11/18**	**01/11/18 16:36**	**170111L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acenaphthene	10.00	8.242	82	51-123	39-135	
Acenaphthylene	10.00	8.207	82	52-120	41-131	
Butyl Benzyl Phthalate	10.00	9.085	91	43-139	27-155	
4-Chloro-3-Methylphenol	10.00	9.164	92	55-121	44-132	
2-Chlorophenol	10.00	8.983	90	58-124	47-135	
1,4-Dichlorobenzene	10.00	7.858	79	42-132	27-147	
Dimethyl Phthalate	10.00	8.120	81	51-123	39-135	
2,4-Dinitrotoluene	10.00	9.310	93	51-129	38-142	
Fluorene	10.00	8.261	83	54-126	42-138	
N-Nitroso-di-n-propylamine	10.00	8.135	81	40-136	24-152	
Naphthalene	10.00	8.486	85	32-146	13-165	
4-Nitrophenol	10.00	7.677	77	24-126	7-143	
Pentachlorophenol	10.00	7.948	79	23-131	5-149	
Phenol	10.00	8.660	87	40-130	25-145	
Pyrene	10.00	8.790	88	47-143	31-159	
1,2,4-Trichlorobenzene	10.00	8.788	88	45-129	31-143	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 18-01-0365 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3010A Total	598	ICP 8300	1
EPA 6010B	EPA 3050B	935	ICP 7300	1
EPA 7199	EPA 3060A	834	IC 11	1
EPA 7470A	EPA 7470A Total	868	Mercury 07	1
EPA 7471A	EPA 7471A Total	868	Mercury 08	1
EPA 8015B (M)	EPA 3510C	682	GC 48	1
EPA 8015B (M)	EPA 3550B	972	GC 49	1
EPA 8081A	EPA 3545	1096	GC 41	1
EPA 8081A	EPA 3510C	669	GC 44	1
EPA 8082	EPA 3545	1028	GC 58	1
EPA 8082	EPA 3510C	1028	GC 58	1
EPA 8141A	EPA 3545	1096	GC 68	1
EPA 8141A	EPA 3510C	1096	GC 68	1
EPA 8151A	EPA 8151A	1096	GC 40	1
EPA 8270C	EPA 3545	923	GC/MS SS	1
EPA 8270C	EPA 3510C	923	GC/MS SS	1
EPA 8310	EPA 3545	684	HPLC 5	1
EPA 8310	EPA 3510C	684	HPLC 5	1
EPA 9045C	N/A	1086	PH 4	1
SM 4500 H+ B	N/A	1086	PH 1	1

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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

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Glossary of Terms and Qualifiers

Work Order: 18-01-0365 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN-OF-CUSTODY RECORD

Date 01/08/18
Page 1 of 3

WO NO. / LAB USE ONLY
18-01-0365

LABORATORY CLIENT: Kennedy Jenks
ADDRESS: 3210 El Camino Real Suite 150
CITY: Irvine STATE: CA ZIP:
TEL: 812 893 0450 E-MAIL: wesellis@kennedyjenks.com

CLIENT PROJECT NAME / NO.: Solana Torrance
PROJECT CONTACT: Ryan Strandberg
GLOBAL ID: LOG CODE:

P.O. NO.: 1583018*01
LAB CONTACT OR QUOTE NO:
SAMPLER(S): (PRINT) Wes Ellis

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
For Title 22 include lead in analyses
All samples except SV-02C-15 and EB-2, are to be put on hold ~~and~~ until further Notice.

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☒ C6-C36 ☒ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM 8310	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☒ 7199 ☐ 218.6	Organophosphorus Pesticides 8141A	Chlorinated Herbicides 8151A	Asbestos OSHA Method ID-191	pH
1	SV-02C-15'	1/06/18	1112	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓	✓
2	SV-02C-6-5'	"	0955	Soil	1																				
3	SV-02C-4-15'	"	1404	Soil	1																				
4	SV-02C-1-15'	"	0842	Soil	1																				
5	SV-02C-5-5'	"	1324	Soil	1																				
6	SV-02C-1-25'	"	1558	Soil	1																				
7	SV-02C-5-15'	"	1335	Soil	1																				
8	SV-02C-2-15'	"	1559	Soil	1																				
9	SV-02C-3-5'	"	0919	Soil	1																				
10	SV-02C-1-5.5'	"	0834	Soil	1																				

Relinquished by: (Signature)	Received by: (Signature/Affiliation) EC1	Date: 01/08/18	Time: 16:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation) EC2	Date: 1/8/18	Time: 18:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY: 18-01-0365

Date 01/08/18
Page 2 of 3

LABORATORY CLIENT: Kennedy Jenks
ADDRESS: 3210 El Camino Real
CITY: Irvine STATE: CA ZIP:
TEL: 812 893 0450
E-MAIL: wesellis@kennedyjenks.com

CLIENT PROJECT NAME / NO.: Solana Torrance
PROJECT CONTACT: Ryan Strandberg
GLOBAL ID:
LOG CODE:
P.O. NO.: 1583018*01
LAB CONTACT OR QUOTE NO:
SAMPLER(S): (PRINT) Wes Ellis

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
For Title 22 include lead in analyses

All samples except SV-02C-15 and EB-2, are to be put on hold until further notice

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Organophosphorus Pesticides 8141A	Chlorinated Herbicides 8151A	Asbestos OSHA Method ID-191	HOLD
11	SV-02C-2-25'	01/06/18	1630	Soil	1																				
12	SV-02C-1-35'	"	1558	"																					
13	SV-02C-35'	"	1139	"																					
14	SV-02C-5'	"	1105	"																					
15	SV-02C-3-15'	"	0925	"																					
16	SV-02C-25'	"	1133	"																					
17	SV-02C-1-4.5'	"	0834	"																					
18	SV-02C-6-15'	"	1000	"																					
19	SV-02C-2.5'	"	1552	"																					
20	SV-02C-4-5'	"	1355	"																					

Relinquished by: (Signature)	Received by: (Signature/Affiliation) EG	Date: 01/08/18	Time: 16.00
Relinquished by: (Signature)	Received by: (Signature/Affiliation) Danny Le EG	Date: 1/8/18	Time: 19:20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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CHAIN-OF-CUSTODY RECORD

Date 01/05/18
Page 3 of 3

WO NO. / LAB USE ONLY: 18-01-0365

LABORATORY CLIENT: Kennedy Jenks
ADDRESS: 3210 El Camino Real
CITY: Irvine STATE: CA ZIP:
TEL: 812 893 0450
E-MAIL: wesellis@kennedyjenks.com

CLIENT PROJECT NAME / NO.: Solana Torrance
PROJECT CONTACT: Ryan Strandberg
GLOBAL ID:
LOG CODE:
P.O. NO.: 1583018 * 01
LAB CONTACT OR QUOTE NO:
SAMPLER(S): (PRINT) Wes Ellis

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
For Title 22 include lead in analyses

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☑ C6-C36 ☑ C6-C44	TPH	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM (8310)	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Organophosphorous Pesticides 8141A	Chlorinated Herbicides 8151A	Asbestos OSHA Method ID-191	Hg
4	EB-2	01/06/18	1020	water	7						✓							✓	✓	✓			✓	✓		✓

Relinquished by: (Signature)	Received by: (Signature/Affiliation) EG	Date: 01/08/18 Time: 16:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation) EG	Date: 1/8/18 Time: 18:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: Time:

2016-04-01-Revision

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Linda Ta

From: Richard Villafania
Sent: Wednesday, January 10, 2018 9:48 AM
To: Linda Ta
Subject: FW: Solana Torrance

Categories: Important

From: Ryan Strandberg [mailto:RyanStrandberg@KennedyJenks.com]
Sent: Wednesday, January 10, 2018 9:47 AM
To: Richard Villafania
Subject: Solana Torrance

Richard,

The equipment blanks samples for COC Work Numbers 18-01-0365 and 18-01-0280 were missing a few analytical requirements. If you have extra sample volume, please add the following analytical methods for the below referenced samples:

- 18-01-0365, Lab Use ID 21, EB-2 – SVOCs, Title 22 Metals including lead, and Hexavalent Chromium.
- 18-01-0280, Lab Use ID 27, EB-1 – SVOCs, Title 22 Metals including lead, and Hexavalent Chromium.

Regards,

Ryan

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WORK ORDER NUMBER: 18-01-

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 2

CLIENT: KENNEDY JENKS

DATE: 01/08/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: +0.2°C); Temperature (w/o CF): 3.2 °C (w/ CF): 3.4 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 804

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 804

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1140

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☑ 125PB ☐ 125PBznna (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH__2) ☐ 250PB ☐ 250PBn (pH__2) ☐ 500AGB ☑ 500AGJ ☐ 500AGJs (pH__2) ☐ 500PB

☑ (5) 1AGB ☐ 1AGBna_2 ☐ 1AGBs (pH__2) ☐ 1AGBs (O&G) ☐ 1PB ☐ 1PBna (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (P) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 1140

s = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH Reviewed by: 836

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WORK ORDER NUMBER: 18-01-0365

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 2

CLIENT: KENNEDY JENKS

DATE: 01/08/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: +0.2°C); Temperature (w/o CF): 3.4 °C (w/ CF): 3.6 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: BOY

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: BOY

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1140

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (1) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1140

Reviewed by: BOY

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Supplemental Report 2

Subcontract analyses are reported as a stand-alone report.

WORK ORDER NUMBER: 18-01-0365

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Kennedy/Jenks Consultants

Client Project Name: Solana Torrance

Attention: Ryan Strandberg
3210 El Camino Real
Suite 150
Irvine, CA 92602-1365

Approved for release on 01/24/2018 by:
Richard Villafania
Project Manager

ResultLink

Email your PM

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Contents

Client Project Name: Solana Torrance
Work Order Number: 18-01-0365

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Work Order Narrative

Work Order: 18-01-0365 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 01/08/18. They were assigned to Work Order 18-01-0365.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Glossary of Terms and Qualifiers

Work Order: 18-01-0365 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN-OF-CUSTODY RECORD

Date 01/08/18
Page 1 of 3

WO NO. / LAB USE ONLY
18-01-0365

LABORATORY CLIENT: Kennedy Jenks
ADDRESS: 3210 El Camino Real Suite 150
CITY: Irvine STATE: CA ZIP:
TEL: 812 893 0450 E-MAIL: wesellis@kennedyjenks.com

CLIENT PROJECT NAME / NO.: Solana Torrance
PROJECT CONTACT: Ryan Strandberg
GLOBAL ID: LOG CODE:

P.O. NO.: 1583018*01
LAB CONTACT OR QUOTE NO:
SAMPLER(S): (PRINT) Wes Ellis

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
For Title 22 include lead in analyses
All samples except SV-02C-15 and EB-2, are to be put on hold ~~and~~ until further Notice.

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☒ C6-C36 ☒ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM 8310	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☒ 7199 ☐ 218.6	Organophosphorus Pesticides 8141A	Chlorinated Herbicides 8151A	Asbestos OSHA Method ID-191	pH
1	SV-02C-15'	1/06/18	1112	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓	✓
2	SV-02C-6-5'	"	0955	Soil	1																				
3	SV-02C-4-15'	"	1404	Soil	1																				
4	SV-02C-1-15'	"	0842	Soil	1																				
5	SV-02C-5-5'	"	1324	Soil	1																				
6	SV-02C-1-25'	"	1558	Soil	1																				
7	SV-02C-5-15'	"	1335	Soil	1																				
8	SV-02C-2-15'	"	1559	Soil	1																				
9	SV-02C-3-5'	"	0919	Soil	1																				
10	SV-02C-1-5.5'	"	0834	Soil	1																				

Relinquished by: (Signature)	Received by: (Signature/Affiliation) EC1	Date: 01/08/18	Time: 16:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation) EC2	Date: 1/8/18	Time: 18:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY: 18-01-0365

Date 01/08/18
Page 2 of 3

LABORATORY CLIENT: Kennedy Jenks
ADDRESS: 3210 El Camino Real
CITY: Irvine STATE: CA ZIP:
TEL: 812 893 0450
E-MAIL: wesellis@kennedyjenks.com

CLIENT PROJECT NAME / NO.: Solana Torrance
PROJECT CONTACT: Ryan Strandberg
GLOBAL ID:
LOG CODE:
P.O. NO.: 1583018*01
LAB CONTACT OR QUOTE NO:
SAMPLER(S): (PRINT) Wes Ellis

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
For Title 22 include lead in analyses

All samples except SV-02C-15 and EB-2, are to be put on hold until further notice

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Organophosphorus Pesticides 8141A	Chlorinated Herbicides 8151A	Asbestos OSHA Method ID-191	HOLD
11	SV-02C-2-25'	01/06/18	1630	Soil	1																				
12	SV-02C-1-35'	"	1558	"																					
13	SV-02C-35'	"	1139	"																					
14	SV-02C-5'	"	1105	"																					
15	SV-02C-3-15'	"	0925	"																					
16	SV-02C-25'	"	1133	"																					
17	SV-02C-1-4.5'	"	0834	"																					
18	SV-02C-6-15'	"	1000	"																					
19	SV-02C-2.5'	"	1552	"																					
20	SV-02C-4-5'	"	1355	"																					

Relinquished by: (Signature)	Received by: (Signature/Affiliation) EG	Date: 01/08/18	Time: 16.00
Relinquished by: (Signature)	Received by: (Signature/Affiliation) Dannyle EG	Date: 1/8/18	Time: 19:20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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CHAIN-OF-CUSTODY RECORD

Date 01/05/18
Page 3 of 3

WO NO. / LAB USE ONLY: 18-01-0365

LABORATORY CLIENT: Kennedy Jenks
ADDRESS: 3210 El Camino Real
CITY: Irvine STATE: CA ZIP:
TEL: 812 893 0450 E-MAIL: wesellis@kennedyjenks.com

CLIENT PROJECT NAME / NO.: Solana Torrance
PROJECT CONTACT: Ryan Strandberg
GLOBAL ID: LOG CODE:
P.O. NO.: 1583018 * 01
LAB CONTACT OR QUOTE NO:
SAMPLER(S): (PRINT) Wes Ellis

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
For Title 22 include lead in analyses

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☑ C6-C36 ☑ C6-C44	TPH	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM (8310)	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Organophosphorous Pesticides 8141A	Chlorinated Herbicides 8151A	Asbestos OSHA Method ID-191	Hg
4	EB-2	01/06/18	1020	water	7						✓							✓	✓	✓			✓	✓		✓

Relinquished by: (Signature)	Received by: (Signature/Affiliation) EG	Date: 01/08/18	Time: 16:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation) EG	Date: 1/8/18	Time: 18:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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Linda Ta

From: Richard Villafania
Sent: Wednesday, January 10, 2018 9:48 AM
To: Linda Ta
Subject: FW: Solana Torrance

Categories: Important

From: Ryan Strandberg [mailto:RyanStrandberg@KennedyJenks.com]
Sent: Wednesday, January 10, 2018 9:47 AM
To: Richard Villafania
Subject: Solana Torrance

Richard,

The equipment blanks samples for COC Work Numbers 18-01-0365 and 18-01-0280 were missing a few analytical requirements. If you have extra sample volume, please add the following analytical methods for the below referenced samples:

- 18-01-0365, Lab Use ID 21, EB-2 – SVOCs, Title 22 Metals including lead, and Hexavalent Chromium.
- 18-01-0280, Lab Use ID 27, EB-1 – SVOCs, Title 22 Metals including lead, and Hexavalent Chromium.

Regards,

Ryan

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WORK ORDER NUMBER: 18-01

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 2

CLIENT: KENNEDY JENKS

DATE: 01/08/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: +0.2°C); Temperature (w/o CF): 3.2 °C (w/ CF): 3.4 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 804

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 804

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1140

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☑ 125PB ☐ 125PBznna (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH__2) ☐ 250PB ☐ 250PBn (pH__2) ☐ 500AGB ☑ 500AGJ ☐ 500AGJs (pH__2) ☐ 500PB

☑ (5) 1AGB ☐ 1AGBna_2 ☐ 1AGBs (pH__2) ☐ 1AGBs (O&G) ☐ 1PB ☐ 1PBna (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (P) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 1140

s = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH Reviewed by: 836

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WORK ORDER NUMBER: 18-01-0365

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 2

CLIENT: KENNEDY JENKS

DATE: 01/08/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: +0.2°C); Temperature (w/o CF): 3.4 °C (w/ CF): 3.6 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: BOY

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: BOY

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1140

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (1) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1140

Reviewed by: BOY

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Subcontractor Analysis Report

Work Order: 18-01-0365 Page 1 of 1

One or more samples in this work order have tests that were subcontracted. The subcontract report(s) follows.

For subcontracted tests, please reference the laboratory information noted below.

1. EMSL - LA Testing - South Pasadena,CA CA ELAP 2283
   Asbestos

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LA Testing
520 Mission Street, South Pasadena, CA 91030
Phone: (800) 303-0047 Fax: (323) 254-9982 Email: Pasadenalab@latesting.com

Attn: **Richard Villafania**
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Fax: 714-894-7501 Phone: 714-895-5494
Project: 18-01-0365

Customer ID: 32CALS51
Customer PO:
Received: 1/10/2018 10:15 AM
LA Testing Order: 321800768
LA Testing Proj:
Analysis Date: 1/24/2018

Test Report: Asbestos Analysis of Soil Materials via OSHA ID 191 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
SV-02C-15'		Brown			100%	Non-fibrous (other)		**None Detected**
321800768-0001		Fibrous Homogeneous						

Analyst(s)
Art Casas (1)

Jerry Drapala Ph.D, Laboratory Manager
or other approved signatory

Some samples may contain asbestos fibers present in dimensions below PLM resolution limits.The limit of detection as stated in the method is 0.1%. EMSL Analytical Inc suggests that samples reported as <0.1% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc. bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc liability is limited to the cost of sample analysis.The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are

Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0, CA ELAP 2283

This is a qualitative soil analysis method. Due to the heterogeneity of the samples there is a significant chance for quantification errors and/or false negatives with this method.

Initial report from 06/29/2016 14:00

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#321800768

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

TO: EMSL Analytical, Inc.
520 Mission St.
South Pasadena, CA 91030
P: (800) 303-0047

CHAIN OF CUSTODY RECORD

DATE: 01/09/18
PAGE: 1 OF 1

LABORATORY CLIENT: EUROFINS CALSCIENCE, INC.
ADDRESS: 7440 LINCOLN WAY
CITY: GARDEN GROVE STATE: CA ZIP: 92841-1432
TEL: (714) 895-5494 E-MAIL: RichardVillafania@eurofinsUS.com

CLIENT PROJECT NAME / NUMBER: **18-01-0365**
P.O. NO.: 18-01-0365
PROJECT CONTACT: **Richard Villafania**
SAMPLER(S): (PRINT)

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
X STANDARD o 24 HR o 48 HR o 72 HR o 5 DAYS

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	Asbestos by ID 191	CONTAINER TYPE
	SV-02C-15'	01/06/18	11:12	S	1	X			X	2oz JAR

Relinquished by: (Signature)	Received by: (Signature/Affiliation) GSO 539033417	Date: 1/9/18	Time: 1533
Relinquished by: (Signature)	Received by: (Signature/Affiliation) D. Flores	Date: 1/10/18	Time: 10:15am
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

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Supplemental Report 3

WORK ORDER NUMBER: 18-01-0365

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Kennedy/Jenks Consultants

Client Project Name: Solana Torrance

Attention: Ryan Strandberg
3210 El Camino Real
Suite 150
Irvine, CA 92602-1365

Approved for release on 01/31/2018 by:
Richard Villafania
Project Manager

ResultLink ▸

Email your PM ▸

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Contents

Client Project Name: Solana Torrance
Work Order Number: 18-01-0365

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Work Order Narrative

Work Order: 18-01-0365 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 01/08/18. They were assigned to Work Order 18-01-0365.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	Kennedy/Jenks Consultants 3210 El Camino Real, Suite 150 Irvine, CA 92602-1365	Work Order:	18-01-0365
		Project Name:	Solana Torrance
		PO Number:	1583018*01
		Date/Time Received:	01/08/18 18:00
		Number of Containers:	27
Attn:	Ryan Strandberg		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
SV-02C-15	18-01-0365-1	01/06/18 11:12	1	Solid
SV-02C-6-5	18-01-0365-2	01/06/18 09:55	1	Solid
SV-02C-4-15	18-01-0365-3	01/06/18 14:04	1	Solid
SV-02C-1-15	18-01-0365-4	01/06/18 08:42	1	Solid
SV-02C-5-5	18-01-0365-5	01/06/18 13:24	1	Solid
SV-02C-1-25	18-01-0365-6	01/06/18 15:58	1	Solid
SV-02C-5-15	18-01-0365-7	01/06/18 13:35	1	Solid
SV-02C-2-15	18-01-0365-8	01/06/18 15:59	1	Solid
SV-02C-3-5	18-01-0365-9	01/06/18 09:19	1	Solid
SV-02C-1-5.5	18-01-0365-10	01/06/18 08:34	1	Solid
SV-02C-2-25	18-01-0365-11	01/06/18 16:30	1	Solid
SV-02C-1-35	18-01-0365-12	01/06/18 15:58	1	Solid
SV-02C-35	18-01-0365-13	01/06/18 11:39	1	Solid
SV-02C-5	18-01-0365-14	01/06/18 11:05	1	Solid
SV-02C-3-15	18-01-0365-15	01/06/18 09:25	1	Solid
SV-02C-25	18-01-0365-16	01/06/18 11:33	1	Solid
SV-02C-1-4.5	18-01-0365-17	01/06/18 08:34	1	Solid
SV-02C-6-15	18-01-0365-18	01/06/18 10:00	1	Solid
SV-02C-2-5	18-01-0365-19	01/06/18 15:52	1	Solid
SV-02C-4-5	18-01-0365-20	01/06/18 13:55	1	Solid
EB-2	18-01-0365-21	01/06/18 10:20	7	Aqueous

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Analytical Report

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3060A
Method: EPA 7199
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-02C-15	**18-01-0365-1-A**	**01/06/18 11:12**	**Solid**	**IC 11**	**01/09/18**	**01/09/18 18:18**	**180109L01P**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chromium, Hexavalent	310	400	200	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-125-3205**	**N/A**	**Solid**	**IC 11**	**01/09/18**	**01/09/18 17:53**	**180109L01P**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chromium, Hexavalent	ND	400	200	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Kennedy/Jenks Consultants
3210 El Camino Real, Suite 150
Irvine, CA 92602-1365

Project: Solana Torrance

Date Received: 01/08/18
Work Order: 18-01-0365
Preparation: EPA 3060A
Method: EPA 7199

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SV-02C-15	**Sample**	**Solid**	**IC 11**	**01/09/18**	**01/09/18 18:18**	**180109S01P**
SV-02C-15	**Matrix Spike**	**Solid**	**IC 11**	**01/09/18**	**01/09/18 18:27**	**180109S01P**
SV-02C-15	**Matrix Spike Duplicate**	**Solid**	**IC 11**	**01/09/18**	**01/09/18 18:36**	**180109S01P**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	ND	20000	9161	46	7819	39	75-125	16	0-25	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Kennedy/Jenks Consultants	Date Received: 01/08/18
3210 El Camino Real, Suite 150	Work Order: 18-01-0365
Irvine, CA 92602-1365	Preparation: EPA 3060A
	Method: EPA 7199
Project: Solana Torrance	Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-05-125-3205	**LCS**	**Solid**	**IC 11**	**01/09/18**	**01/09/18 18:01**	**180109L01P**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Chromium, Hexavalent	20000	19700	98	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 18-01-0365 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 7199	EPA 3060A	834	IC 11	1

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Glossary of Terms and Qualifiers

Work Order: 18-01-0365 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN-OF-CUSTODY RECORD

Date 01/08/18
Page 1 of 3

WO NO. / LAB USE ONLY
18-01-0365

LABORATORY CLIENT: Kennedy Jenks
ADDRESS: 3210 El Camino Real Suite 150
CITY: Irvine STATE: CA ZIP:
TEL: 812 893 0450 E-MAIL: wesellis@kennedyjenks.com

CLIENT PROJECT NAME / NO.: Solana Torrance
PROJECT CONTACT: Ryan Strandberg
GLOBAL ID: LOG CODE:

P.O. NO.: 1583018*01
LAB CONTACT OR QUOTE NO:
SAMPLER(S): (PRINT) Wes Ellis

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
For Title 22 include lead in analyses
All samples except SV-02C-15 and EB-2, are to be put on hold ~~and~~ until further Notice.

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☒ C6-C36 ☒ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM 8310	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☒ 7199 ☐ 218.6	Organophosphorus Pesticides 8141A	Chlorinated Herbicides 8151A	Asbestos OSHA Method ID-191	pH
1	SV-02C-15'	1/06/18	1112	Soil	1						✓						✓	✓	✓	✓	✓	✓	✓	✓	✓
2	SV-02C-6-5'	"	0955	Soil	1																				
3	SV-02C-4-15'	"	1404	Soil	1																				
4	SV-02C-1-15'	"	0842	Soil	1																				
5	SV-02C-5-5'	"	1324	Soil	1																				
6	SV-02C-1-25'	"	1558	Soil	1																				
7	SV-02C-5-15'	"	1335	Soil	1																				
8	SV-02C-2-15'	"	1559	Soil	1																				
9	SV-02C-3-5'	"	0919	Soil	1																				
10	SV-02C-1-5.5'	"	0834	Soil	1																				

Relinquished by: (Signature)	Received by: (Signature/Affiliation) EC1	Date: 01/08/18	Time: 16:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation) EC2	Date: 1/8/18	Time: 18:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY: 18-01-0365

Date 01/08/18
Page 2 of 3

LABORATORY CLIENT: Kennedy Jenks
ADDRESS: 3210 El Camino Real
CITY: Irvine STATE: CA ZIP:
TEL: 812 893 0450 E-MAIL: wesellis@kennedyjenks.com

CLIENT PROJECT NAME / NO.: Solana Torrance
PROJECT CONTACT: Ryan Strandberg
GLOBAL ID: LOG CODE:
P.O. NO.: 1583018*01
LAB CONTACT OR QUOTE NO:
SAMPLER(S): (PRINT) Wes Ellis

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
For Title 22 include lead in analyses

All samples except SV-02C-15 and EB-2, are to be put on hold until further notice

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Organophosphorus Pesticides 8141A	Chlorinated Herbicides 8151A	Asbestos OSHA Method ID-191	HOLD
11	SV-02C-2-25'	01/06/18	1630	Soil	1																				
12	SV-02C-1-35'	"	1558	"																					
13	SV-02C-35'	"	1139	"																					
14	SV-02C-5'	"	1105	"																					
15	SV-02C-3-15'	"	0925	"																					
16	SV-02C-25'	"	1133	"																					
17	SV-02C-1-4.5'	"	0834	"																					
18	SV-02C-6-15'	"	1000	"																					
19	SV-02C-2.5'	"	1552	"																					
20	SV-02C-4-5'	"	1355	"																					

Relinquished by: (Signature)	Received by: (Signature/Affiliation) EH	Date: 01/08/18	Time: 16.00
Relinquished by: (Signature)	Received by: (Signature/Affiliation) Danny Le EH	Date: 1/8/18	Time: 19:20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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CHAIN-OF-CUSTODY RECORD

Date 01/05/18
Page 3 of 3

WO NO. / LAB USE ONLY: 18-01-0365

LABORATORY CLIENT: Kennedy Jenks
ADDRESS: 3210 El Camino Real
CITY: Irvine STATE: CA ZIP:
TEL: 812 893 0450
E-MAIL: wesellis@kennedyjenks.com

CLIENT PROJECT NAME / NO.: Solana Torrance
PROJECT CONTACT: Ryan Strandberg
GLOBAL ID:
LOG CODE:
P.O. NO.: 1583018 * 01
LAB CONTACT OR QUOTE NO:
SAMPLER(S): (PRINT) Wes Ellis

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:
For Title 22 include lead in analyses

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☑ C6-C36 ☑ C6-C44	TPH	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM (8310)	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Organophosphorous Pesticides 8141A	Chlorinated Herbicides 8151A	Asbestos OSHA Method ID-191	Hg
4	EB-2	01/06/18	1020	water	7						✓							✓	✓	✓			✓	✓		✓

Relinquished by: (Signature)	Received by: (Signature/Affiliation) EG	Date: 01/08/18	Time: 16:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation) EG	Date: 1/8/18	Time: 18:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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Linda Ta

From: Richard Villafania
Sent: Wednesday, January 10, 2018 9:48 AM
To: Linda Ta
Subject: FW: Solana Torrance

Categories: Important

From: Ryan Strandberg [mailto:RyanStrandberg@KennedyJenks.com]
Sent: Wednesday, January 10, 2018 9:47 AM
To: Richard Villafania
Subject: Solana Torrance

Richard,

The equipment blanks samples for COC Work Numbers 18-01-0365 and 18-01-0280 were missing a few analytical requirements. If you have extra sample volume, please add the following analytical methods for the below referenced samples:

- 18-01-0365, Lab Use ID 21, EB-2 – SVOCs, Title 22 Metals including lead, and Hexavalent Chromium.
- 18-01-0280, Lab Use ID 27, EB-1 – SVOCs, Title 22 Metals including lead, and Hexavalent Chromium.

Regards,

Ryan

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WORK ORDER NUMBER: 18-01-

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 2

CLIENT: KENNEDY JENKS

DATE: 01/08/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: +0.2°C); Temperature (w/o CF): 3.2 °C (w/ CF): 3.4 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 804

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 804

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1140

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☑ 125PB ☐ 125PBznna (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH__2) ☐ 250PB ☐ 250PBn (pH__2) ☐ 500AGB ☑ 500AGJ ☐ 500AGJs (pH__2) ☐ 500PB

☑ (5) 1AGB ☐ 1AGBna_2 ☐ 1AGBs (pH__2) ☐ 1AGBs (O&G) ☐ 1PB ☐ 1PBna (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (P) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 1140

s = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH Reviewed by: 836

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WORK ORDER NUMBER: 18-01-0365

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 2

CLIENT: KENNEDY JENKS

DATE: 01/08/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: +0.2°C); Temperature (w/o CF): 3.4 °C (w/ CF): 3.6 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: BOY

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: BOY

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1140

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (1) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1140

Reviewed by: BOY

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Subcontractor Analysis Report

Work Order: 18-01-0365 Page 1 of 1

One or more samples in this work order have tests that were subcontracted. The subcontract report(s) follows.

For subcontracted tests, please reference the laboratory information noted below.

1. EMSL - LA Testing - South Pasadena,CA CA ELAP 2283
   Asbestos

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Appendix D: Analytical Laboratory Reports – Soil Vapor

Mobile Geochemistry Inc.

31 August 2015

Mr. Ezaria Nona
Kennedy / Jenks Consultants, Inc.
2355 Main Street, Suite 140
Irvine, CA 92614

H&P Project: KJ082515-L6
Client Project: 1583018*01 / Via Valmonte

Dear Mr. Ezaria Nona:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 25-Aug-15 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody
- Sampling Logs (if applicable)

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Janis Villarreal

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP, the National Environmental Laboratory Accreditation Conference (NELAC) and the Department of Defense Accreditation Programs.

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV-6	E508116-01	Vapor	25-Aug-15	25-Aug-15
SV-7	E508116-02	Vapor	25-Aug-15	25-Aug-15
SV-8	E508116-03	Vapor	25-Aug-15	25-Aug-15
SV-4	E508116-04	Vapor	25-Aug-15	25-Aug-15
SV-4 REP	E508116-05	Vapor	25-Aug-15	25-Aug-15
SV-3	E508116-06	Vapor	25-Aug-15	25-Aug-15
SV-1	E508116-07	Vapor	25-Aug-15	25-Aug-15
SV-2	E508116-08	Vapor	25-Aug-15	25-Aug-15
SV-5	E508116-09	Vapor	25-Aug-15	25-Aug-15

The percent recoveries for 1,1-Difluoroethane, Dichlorodifluoromethane, Vinyl Chloride, Bromomethane and Chloromethane fell below the method criteria in the continuing calibration verification; any results for these analytes may be biased low.

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Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

DETECTIONS SUMMARY

Sample ID: **SV-6** Laboratory ID: **E508116-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-7** Laboratory ID: **E508116-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-8** Laboratory ID: **E508116-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**0.15**	0.10	ug/l	H&P 8260SV	

Sample ID: **SV-4** Laboratory ID: **E508116-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-4 REP** Laboratory ID: **E508116-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-3** Laboratory ID: **E508116-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-1** Laboratory ID: **E508116-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-2** Laboratory ID: **E508116-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
Toluene	**2.2**	1.0	ug/l	H&P 8260SV	

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2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Sample ID: **SV-5** Laboratory ID: **E508116-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

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Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-6 (E508116-01) Vapor Sampled: 25-Aug-15 Received: 25-Aug-15									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EH52504	25-Aug-15	25-Aug-15	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.10	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-6 (E508116-01) Vapor Sampled: 25-Aug-15 Received: 25-Aug-15									
Ethylbenzene	ND	0.50	ug/l	0.05	EH52504	25-Aug-15	25-Aug-15	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*110 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*106 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.8 %*		*75-125*	"	"	"	"	

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Geochemistry Inc.

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Carlsbad, CA 92010
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Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-7 (E508116-02) Vapor Sampled: 25-Aug-15 Received: 25-Aug-15									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EH52504	25-Aug-15	25-Aug-15	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.10	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-7 (E508116-02) Vapor Sampled: 25-Aug-15 Received: 25-Aug-15									
Ethylbenzene	ND	0.50	ug/l	0.05	EH52504	25-Aug-15	25-Aug-15	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*105 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.3 %*		*75-125*	"	"	"	"	

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Carlsbad, CA 92010
760-804-9678 Phone
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Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-8 (E508116-03) Vapor Sampled: 25-Aug-15 Received: 25-Aug-15									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EH52504	25-Aug-15	25-Aug-15	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	1.0	"	"	"	"	"	"	
Benzene	**0.15**	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.10	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-8 (E508116-03) Vapor Sampled: 25-Aug-15 Received: 25-Aug-15									
Ethylbenzene	ND	0.50	ug/l	0.05	EH52504	25-Aug-15	25-Aug-15	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*103 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*107 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.7 %*		*75-125*	"	"	"	"	

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2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
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Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-4 (E508116-04) Vapor Sampled: 25-Aug-15 Received: 25-Aug-15									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EH52504	25-Aug-15	25-Aug-15	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.10	"	"	"	"	"	"	

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Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-4 (E508116-04) Vapor Sampled: 25-Aug-15 Received: 25-Aug-15									
Ethylbenzene	ND	0.50	ug/l	0.05	EH52504	25-Aug-15	25-Aug-15	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*103 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*106 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.6 %*		*75-125*	"	"	"	"	

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Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
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Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-4 REP (E508116-05) Vapor Sampled: 25-Aug-15 Received: 25-Aug-15									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EH52504	25-Aug-15	25-Aug-15	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.10	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-4 REP (E508116-05) Vapor Sampled: 25-Aug-15 Received: 25-Aug-15									
Ethylbenzene	ND	0.50	ug/l	0.05	EH52504	25-Aug-15	25-Aug-15	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*106 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.7 %*		*75-125*	"	"	"	"	

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Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-3 (E508116-06) Vapor Sampled: 25-Aug-15 Received: 25-Aug-15									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EH52504	25-Aug-15	25-Aug-15	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.10	"	"	"	"	"	"	

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Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-3 (E508116-06) Vapor Sampled: 25-Aug-15 Received: 25-Aug-15									
Ethylbenzene	ND	0.50	ug/l	0.05	EH52504	25-Aug-15	25-Aug-15	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*106 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.7 %*		*75-125*	"	"	"	"	

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2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-1 (E508116-07) Vapor Sampled: 25-Aug-15 Received: 25-Aug-15									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EH52504	25-Aug-15	25-Aug-15	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.10	"	"	"	"	"	"	

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Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-1 (E508116-07) Vapor Sampled: 25-Aug-15 Received: 25-Aug-15									
Ethylbenzene	ND	0.50	ug/l	0.05	EH52504	25-Aug-15	25-Aug-15	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*105 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.3 %*		*75-125*	"	"	"	"	

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2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-2 (E508116-08) Vapor Sampled: 25-Aug-15 Received: 25-Aug-15									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EH52504	25-Aug-15	25-Aug-15	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Toluene	**2.2**	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.10	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-2 (E508116-08) Vapor Sampled: 25-Aug-15 Received: 25-Aug-15									
Ethylbenzene	ND	0.50	ug/l	0.05	EH52504	25-Aug-15	25-Aug-15	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*106 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.5 %*		*75-125*	"	"	"	"	

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Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-5 (E508116-09) Vapor Sampled: 25-Aug-15 Received: 25-Aug-15									
1,1-Difluoroethane (LCC)	ND	0.50	ug/l	0.05	EH52504	25-Aug-15	25-Aug-15	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Bromomethane	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.10	"	"	"	"	"	"	

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Carlsbad, CA 92010
760-804-9678 Phone
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Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-5 (E508116-09) Vapor Sampled: 25-Aug-15 Received: 25-Aug-15									
Ethylbenzene	ND	0.50	ug/l	0.05	EH52504	25-Aug-15	25-Aug-15	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*113 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*107 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*		*75-125*	"	"	"	"	

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Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
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Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH52504 - EPA 5030										
Blank (EH52504-BLK1)				Prepared & Analyzed: 25-Aug-15						
1,1-Difluoroethane (LCC)	ND	0.50	ug/l							
Dichlorodifluoromethane (F12)	ND	0.50	"							
Chloromethane	ND	0.50	"							
Vinyl chloride	ND	0.05	"							
Bromomethane	ND	0.50	"							
Chloroethane	ND	0.50	"							
Trichlorofluoromethane (F11)	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
Methylene chloride (Dichloromethane)	ND	0.50	"							
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"							
Methyl tertiary-butyl ether (MTBE)	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
Diisopropyl ether (DIPE)	ND	1.0	"							
1,1-Dichloroethane	ND	0.50	"							
Ethyl tert-butyl ether (ETBE)	ND	1.0	"							
2,2-Dichloropropane	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
Chloroform	ND	0.10	"							
Bromochloromethane	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
Carbon tetrachloride	ND	0.10	"							
1,2-Dichloroethane (EDC)	ND	0.10	"							
Tertiary-amyl methyl ether (TAME)	ND	1.0	"							
Benzene	ND	0.10	"							
Trichloroethene	ND	0.10	"							
1,2-Dichloropropane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Dibromomethane	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
Toluene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							

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Carlsbad, CA 92010
760-804-9678 Phone
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2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH52504 - EPA 5030										
Blank (EH52504-BLK1)				Prepared & Analyzed: 25-Aug-15						
1,3-Dichloropropane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.10	"							
Dibromochloromethane	ND	0.50	"							
Chlorobenzene	ND	0.10	"							
Ethylbenzene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
m,p-Xylene	ND	0.50	"							
o-Xylene	ND	0.50	"							
Styrene	ND	0.50	"							
Bromoform	ND	0.50	"							
Isopropylbenzene (Cumene)	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
n-Propylbenzene	ND	0.50	"							
Bromobenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
p-Isopropyltoluene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Naphthalene	ND	0.10	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
Tertiary-butyl alcohol (TBA)	ND	5.0	"							
Surrogate: Dibromofluoromethane	*2.58*		*"*	*2.50*		*103*	*75-125*			

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Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH52504 - EPA 5030										
Blank (EH52504-BLK1)				Prepared & Analyzed: 25-Aug-15						
Surrogate: 1,2-Dichloroethane-d4	*2.70*		*ug/l*	*2.50*		*108*	*75-125*			
Surrogate: Toluene-d8	*2.64*		*"*	*2.50*		*106*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.50*		*"*	*2.50*		*99.9*	*75-125*			
LCS (EH52504-BS1)				Prepared & Analyzed: 25-Aug-15						
Dichlorodifluoromethane (F12)	1.31	0.50	ug/l	5.00		26.3	70-130			QL-1L
Vinyl chloride	3.91	0.05	"	5.00		78.2	70-130			
Chloroethane	4.59	0.50	"	5.00		91.8	70-130			
Trichlorofluoromethane (F11)	5.65	0.50	"	5.00		113	70-130			
1,1-Dichloroethene	5.03	0.50	"	5.00		101	70-130			
Methylene chloride (Dichloromethane)	5.06	0.50	"	5.00		101	70-130			
1,1,2 Trichlorotrifluoroethane (F113)	5.93	0.50	"	5.00		119	70-130			
trans-1,2-Dichloroethene	5.51	0.50	"	5.00		110	70-130			
1,1-Dichloroethane	5.35	0.50	"	5.00		107	70-130			
cis-1,2-Dichloroethene	5.53	0.50	"	5.00		111	70-130			
Chloroform	5.48	0.10	"	5.00		110	70-130			
1,1,1-Trichloroethane	5.44	0.50	"	5.00		109	70-130			
Carbon tetrachloride	5.80	0.10	"	5.00		116	70-130			
1,2-Dichloroethane (EDC)	5.82	0.10	"	5.00		116	70-130			
Benzene	4.94	0.10	"	5.00		98.9	70-130			
Trichloroethene	5.22	0.10	"	5.00		104	70-130			
Toluene	5.30	1.0	"	5.00		106	70-130			
1,1,2-Trichloroethane	5.78	0.50	"	5.00		116	70-130			
Tetrachloroethene	4.96	0.10	"	5.00		99.2	70-130			
Ethylbenzene	5.27	0.50	"	5.00		105	70-130			
1,1,1,2-Tetrachloroethane	5.48	0.50	"	5.00		110	70-130			
m,p-Xylene	10.1	0.50	"	10.0		101	70-130			
o-Xylene	4.97	0.50	"	5.00		99.4	70-130			
1,1,2,2-Tetrachloroethane	5.51	0.50	"	5.00		110	70-130			
Surrogate: Dibromofluoromethane	*2.62*		*"*	*2.50*		*105*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.81*		*"*	*2.50*		*112*	*75-125*			
Surrogate: Toluene-d8	*2.72*		*"*	*2.50*		*109*	*75-125*			

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2470 Impala Drive
Carlsbad, CA 92010
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2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH52504 - EPA 5030										
LCS (EH52504-BS1)				Prepared & Analyzed: 25-Aug-15						
Surrogate: 4-Bromofluorobenzene	*2.53*		*ug/l*	*2.50*		*101*	*75-125*			

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Kennedy / Jenks Consultants, Inc.	Project: KJ082515-L6	
2355 Main Street, Suite 140	Project Number: 1583018*01 / Via Valmonte	Reported:
Irvine, CA 92614	Project Manager: Mr. Ezaria Nona	31-Aug-15 14:13

Notes and Definitions

QL-1L	The LCS and/or LCSD recoveries fell below the established control specifications for this analyte. Any result for this compound is qualified and should be considered biased low.
LCC	Leak Check Compound
ND	Analyte NOT DETECTED at or above the reporting limit
MDL	Method Detection Limit
%REC	Percent Recovery
RPD	Relative Percent Difference

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP and the ISO 17025 programs, certification number L11-175.

H&P is approved by the State of Arizona as an Environmental Testing Laboratory and Mobile Laboratory, certification numbers AZM758 and AZ0779.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743, 2744, 2745, 2754 & 2930.

H&P is approved by the State of Florida Department of Health under the National Environmental Laboratory Accreditation Conference (NELAC) certification number E871100.

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

Mobile Geochemistry, Inc.
2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 8/25/15
Page 1 of ____

Lab Client and Project Information

Lab Client/Consultant: Kennedy Jenks Consultants, Inc	Project Name / #: 158301801
Lab Client Project Manager: Ezaria Nona	Project Location: Via Valmante Torrance
Lab Client Address: 3210 El Camino Real, Suite 150	Report E-Mail(s): ezarianona@kennedyjenks.com ryanstrandberg@kennedyjenks.com
Lab Client City, State, Zip: Irvine, CA 92602	
Phone Number: 951-676-6746	

Sample Receipt (Lab Use Only)

Date Rec'd: 8/25/15	Control #: 150717.001.01
H&P Project # KJ082515-L6	
Lab Work Order # ES18116	
Sample Intact: ☒ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID:	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☒ Excel EDD ☐ Other EDD: _____
☐ CA Geotracker Global ID: _____

Turnaround Time

☐ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☒ Mobile Lab
☐ 48-Hr Rush ☐ Other: ____

Sampler Information

Sampler(s): Tam Chu
Signature:
Date: 8/25/15

Additional Instructions to Laboratory:

☒ Check if Project Analyte List is Attached EH525C4
** Preferred VOC units (please choose one):*
☒ µg/L ☐ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☒ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☐ TO-15	Oxygenates ☒ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15 ☐ TO-17m	TPHv as Gas ☐ 8260SVm ☐ TO-15m	TPHv as Diesel (sorbent tube) ☐ TO-17m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2			
SV-6		8/25/15	10:25	SV	Glass Syringe	109		X		X					X					
SV-7			10:50			197		X		X					X					
SV-8			10:57			150		X		X					X					
SV-4			11:05			154		X		X					X					
SV-4 DUP			11:06			179		X		X					X					
SV-3			11:50			176		X		X					X					
SV-1			12:15			109		X		X					X					
SV-2			12:22			197		X		X					X					
SV-5			12:30			150		X		X					X					

Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Eric Dunn	K/J	8/25/15	1400	Clinton	H&P	8/25/15	14:00
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

H&P Mobile Geochemistry, Inc.
2470 Impala Drive, Carlsbad, CA 92010
Field Office in Signal Hill, CA (Los Angeles)
Ph: 800-834-9888 www.handpmg.com

H&P Method 8260SV (Modified EPA 8260B)
Soil Vapor Compounds - Standard Full List + Oxy

Compound	*CAS #*	*Standard RL Vapor (µg/L)*
Dichlorodifluoromethane (F12)	75-71-8	0.5
Chloromethane	74-87-3	0.5
Vinyl chloride	75-01-4	0.05
Bromomethane	74-83-9	0.5
Chloroethane	75-00-3	0.5
Trichlorofluoromethane (F11)	75-69-4	0.5
1,1-Dichloroethene	75-35-4	0.5
1,1,2-Trichlorotrifluoroethane (F113)	76-13-1	0.5
Methylene chloride (Dichloromethane)	75-09-2	0.5
Methyl tertiary-butyl ether (MTBE)	1634-04-4	0.5
trans-1,2-Dichloroethene	156-60-5	0.5
1,1-Dichloroethane	75-34-3	0.5
2,2-Dichloropropane	594-20-7	0.5
cis-1,2-Dichloroethene	156-59-2	0.5
Bromochloromethane	74-97-5	0.5
Chloroform	67-66-3	0.1
1,1,1-Trichloroethane	71-55-6	0.5
1,1-Dichloropropene	563-58-6	0.5
Carbon tetrachloride	56-23-5	0.1
1,2-Dichloroethane (EDC)	107-06-2	0.1
Benzene	71-43-2	0.1
Trichloroethene	79-01-6	0.1
1,2-Dichloropropane	78-87-5	0.5
Dibromomethane	74-95-3	0.5
Bromodichloromethane	75-27-4	0.5
cis-1,3-Dichloropropene	10061-01-5	0.5
Toluene	108-88-3	1
trans-1,3-Dichloropropene	10061-02-6	0.5
1,1,2-Trichloroethane	79-00-5	0.5
1,3-Dichloropropane	142-28-9	0.5
Tetrachloroethene	127-18-4	0.1
Dibromochloromethane	124-48-1	0.5
1,2-Dibromoethane (EDB)	106-93-4	0.5
Chlorobenzene	108-90-7	0.1
1,1,1,2-Tetrachloroethane	630-20-6	0.5
Ethylbenzene	100-41-4	0.5
m,p-Xylene	179601-23-1	0.5
o-Xylene	95-47-6	0.5
Styrene	100-42-5	0.5
Bromoform	75-25-2	0.5
Isopropylbenzene (Cumene)	98-82-8	0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5
n-Propylbenzene	103-65-1	0.5

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2470 Impala Drive, Carlsbad, CA 92010
Field Office in Signal Hill, CA (Los Angeles)
Ph: 800-834-9888 www.handpmg.com

H&P Method 8260SV (Modified EPA 8260B)
Soil Vapor Compounds - Standard Full List + Oxy

Compound	*CAS #*	*Standard RL Vapor (µg/L)*
1,2,3-Trichloropropane	96-18-4	0.5
Bromobenzene	108-86-1	0.5
2-Chlorotoluene	95-49-8	0.5
1,3,5-Trimethylbenzene	108-67-8	0.5
4-Chlorotoluene	106-43-4	0.5
tert-Butylbenzene	98-06-6	0.5
1,2,4-Trimethylbenzene	95-63-6	0.5
sec-Butylbenzene	135-98-8	0.5
p-Isopropyltoluene	99-87-6	0.5
1,3-Dichlorobenzene	541-73-1	0.5
1,4-Dichlorobenzene	106-46-7	0.5
n-Butylbenzene	104-51-8	0.5
1,2-Dichlorobenzene	95-50-1	0.5
1,2-Dibromo-3-chloropropane	96-12-8	5
1,2,4-Trichlorobenzene	120-82-1	0.5
Hexachlorobutadiene	87-68-3	0.5
Naphthalene	91-20-3	0.1
1,2,3-Trichlorobenzene	87-61-6	0.5
Oxygenates		
Methyl tertiary-butyl ether (MTBE)	1634-04-4	0.5
Diisopropyl ether (DIPE)	108-20-3	1
Ethyl tertiary-butyl ether (ETBE)	637-92-3	1
Tertiary-amyl methyl ether (TAME)	994-05-8	1
Tertiary-butyl alcohol (TBA)	75-65-0	5
Leak Check Compound		
1,1-Difluoroethane (LCC)	75-37-6	0.5

H&P Mobile Geochemistry Inc.

FMS004
Revision: 2
Revised: 12/4/14
Effective: 1/1/15
Page 1 of 1

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: KS082515-26 | Date: 8/25/15
Site Address: Via Valmonte Torrance | Page: 1 of 1
Consultant: Kennedy Jenks Consultants, Inc | H&P Rep(s): Tom, Dave. P.
Consultant Rep(s): Ezavia

Reviewed: DB
Scanned:

Purge Volume Calculation			
PVT Probe ID, if applicable:			
Tubing:	Length:	Diameter:	1 Volume:
Sand Pack:	Height:	Diameter:	1 Volume:
Dry Bentonite:	Height:	Diameter:	1 Volume:
PVT Increments:	___PV =	___PV=	___PV =
PV Amount Selected:	3PV	Selected by:	Soil sheet

Sample Volume
☒ 50cc Glass Syringe ☐ 100cc Glass Syringe ☐ Other_____

Leak Check Compound
☒ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other_____

A cloth saturated with LCC is placed around tubing connections and at the probe seal. This is done prior to every soil vapor sample collected unless otherwise noted in the field notes below.

	Sample Information				Probe Specs							Collection Information				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Ht (in.)	Sand Pack Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Purge Vol (mL)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Vacuum ("Hg)	Field Notes
1	SV-6	169	8/25/15	10:25	5	6	1/8	6	.75	6	.75	134	✓	200	0	
2	SV-7	197		10:50	5	6	1/8	6	.75	6	.75	134	✓	200	0	
3	SV-8	150		10:57	5	6	1/8	6	.75	6	.75	134	✓	200	0	
4	SV-4	154		11:05	5	6	1/8	6	.75	6	.75	134	✓	200	0	
5	SV-4 Rep	179		11:06	5	6	1/8	6	.75	6	.75	134	✓	200	0	
6	SV-3	178		11:50	5	6	1/8	6	.75	6	.75	134	✓	200	0	
7	SV-1	109		12:15	5	6	1/8	6	.75	6	.75	134	✓	200	0	
8	SV-2	197		12:22	5	6	1/8	6	.75	6	.75	134	✓	200	0	
9	SV-5	150	↓	12:30	5	6	1/8	6	.75	6	.75	134	✓	200	0	
10																
11																
12																

Site Notes (e.g. weather, visitors, scope deviations, health & safety issues, etc.):
Waived a little bit

H&P Mobile Geochemistry Inc.

11 January 2018

Mr. Ryan Strandberg
Kennedy / Jenks Consultants, Inc. -Temecula
Three Better World Circle, Suite 200
Temecula, CA 92590

H&P Project: KJ010318-L4
Client Project: 1583018*01_1/ Via Valmonte

Dear Mr. Ryan Strandberg:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 1/3/2018 -1/4/2018 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody
- Sampling Logs (if applicable)

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Janis La Roux
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP and the National Environmental Laboratory Accreditation Conference (NELAC). H&P is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs, accreditation number 69070 for EPA Method TO-15, H&P Method TO-15, EPA Method 8260B and H&P 8260SV.

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV-02-15	E801006-01	Vapor	03-Jan-18	03-Jan-18
SV-02A-15	E801006-02	Vapor	03-Jan-18	03-Jan-18
SV-02A-15 Rep	E801006-03	Vapor	03-Jan-18	03-Jan-18
SV-02A-5	E801006-04	Vapor	03-Jan-18	03-Jan-18
SV-09-15	E801006-05	Vapor	03-Jan-18	03-Jan-18
SV-09-5	E801006-06	Vapor	03-Jan-18	03-Jan-18
SV-08A-15	E801006-07	Vapor	03-Jan-18	03-Jan-18
SV-08A-5	E801006-08	Vapor	03-Jan-18	03-Jan-18
SV-02B-15	E801006-09	Vapor	03-Jan-18	03-Jan-18
SV-02B-5	E801006-10	Vapor	03-Jan-18	03-Jan-18
SV-08-15	E801006-11	Vapor	03-Jan-18	03-Jan-18
SV-08C-15	E801006-12	Vapor	03-Jan-18	03-Jan-18
SV-08C-5	E801006-13	Vapor	03-Jan-18	03-Jan-18
SV-08B-15	E801008-01	Vapor	04-Jan-18	04-Jan-18
SV-08B-15 Rep	E801008-02	Vapor	04-Jan-18	04-Jan-18
SV-08B-5	E801008-03	Vapor	04-Jan-18	04-Jan-18
SV-10-4	E801008-04	Vapor	04-Jan-18	04-Jan-18
SV-02C-15	E801008-05	Vapor	04-Jan-18	04-Jan-18
SV-02C-5	E801008-06	Vapor	04-Jan-18	04-Jan-18

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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

DETECTIONS SUMMARY

Sample ID: **SV-02-15** Laboratory ID: **E801006-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-02A-15** Laboratory ID: **E801006-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-02A-15 Rep** Laboratory ID: **E801006-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-02A-5** Laboratory ID: **E801006-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
Toluene	**4.9**	0.80	ug/l	H&P 8260SV	
m,p-Xylene	**0.46**	0.40	ug/l	H&P 8260SV	

Sample ID: **SV-09-15** Laboratory ID: **E801006-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-09-5** Laboratory ID: **E801006-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-08A-15** Laboratory ID: **E801006-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-08A-5** Laboratory ID: **E801006-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

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Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Sample ID: **SV-02B-15** Laboratory ID: **E801006-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-02B-5** Laboratory ID: **E801006-10**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-08-15** Laboratory ID: **E801006-11**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-08C-15** Laboratory ID: **E801006-12**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-08C-5** Laboratory ID: **E801006-13**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-08B-15** Laboratory ID: **E801008-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-08B-15 Rep** Laboratory ID: **E801008-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-08B-5** Laboratory ID: **E801008-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Sample ID: **SV-10-4** Laboratory ID: **E801008-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SV-02C-15** Laboratory ID: **E801008-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
Dichlorodifluoromethane (F12)	**850**	20	ug/l	H&P 8260SV	
Trichlorofluoromethane (F11)	**0.60**	0.40	ug/l	H&P 8260SV	
1,1,2 Trichlorotrifluoroethane (F113)	**1.6**	0.40	ug/l	H&P 8260SV	

Sample ID: **SV-02C-5** Laboratory ID: **E801008-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
Dichlorodifluoromethane (F12)	**0.46**	0.40	ug/l	H&P 8260SV	

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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-02-15 (E801006-01) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

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Carlsbad, CA 92010
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760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-02-15 (E801006-01) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
o-Xylene	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*107 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.0 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-02A-15 (E801006-02) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-02A-15 (E801006-02) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
o-Xylene	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.0 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.9 %*		*75-125*	"	"	"	"	

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Carlsbad, CA 92010
760-804-9678 Phone
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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-02A-15 Rep (E801006-03) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

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2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-02A-15 Rep (E801006-03) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
o-Xylene	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*100 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.8 %*		*75-125*	"	"	"	"	

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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-02A-5 (E801006-04) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	**4.9**	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	**0.46**	0.40	"	"	"	"	"	"	

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2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-02A-5 (E801006-04) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
o-Xylene	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97.2 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.9 %*		*75-125*	"	"	"	"	

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2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-09-15 (E801006-05) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-09-15 (E801006-05) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
o-Xylene	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*100 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.3 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-09-5 (E801006-06) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

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Carlsbad, CA 92010
760-804-9678 Phone
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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-09-5 (E801006-06) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
o-Xylene	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*107 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.8 %*		*75-125*	"	"	"	"	

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Carlsbad, CA 92010
760-804-9678 Phone
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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-08A-15 (E801006-07) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

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Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-08A-15 (E801006-07) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
o-Xylene	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*103 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.7 %*		*75-125*	"	"	"	"	

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Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-08A-5 (E801006-08) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

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Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-08A-5 (E801006-08) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
o-Xylene	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.7 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-02B-15 (E801006-09) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
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2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-02B-15 (E801006-09) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
o-Xylene	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.7 %*		*75-125*	"	"	"	"	

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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-02B-5 (E801006-10) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

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Carlsbad, CA 92010
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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-02B-5 (E801006-10) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
o-Xylene	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*103 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.5 %*		*75-125*	"	"	"	"	

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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-08-15 (E801006-11) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-08-15 (E801006-11) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
o-Xylene	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.3 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.7 %*		*75-125*	"	"	"	"	

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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-08C-15 (E801006-12) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

H&P Mobile
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2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-08C-15 (E801006-12) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
o-Xylene	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.1 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.5 %*		*75-125*	"	"	"	"	

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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-08C-5 (E801006-13) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

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Carlsbad, CA 92010
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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-08C-5 (E801006-13) Vapor Sampled: 03-Jan-18 Received: 03-Jan-18									
o-Xylene	ND	0.40	ug/l	0.04	EA80311	03-Jan-18	03-Jan-18	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*104 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.8 %*		*75-125*	"	"	"	"	

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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-08B-15 (E801008-01) Vapor Sampled: 04-Jan-18 Received: 04-Jan-18									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EA80501	04-Jan-18	04-Jan-18	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

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2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-08B-15 (E801008-01) Vapor Sampled: 04-Jan-18 Received: 04-Jan-18									
o-Xylene	ND	0.40	ug/l	0.04	EA80501	04-Jan-18	04-Jan-18	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.7 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.7 %*		*75-125*	"	"	"	"	

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Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-08B-15 Rep (E801008-02) Vapor Sampled: 04-Jan-18 Received: 04-Jan-18									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EA80501	04-Jan-18	04-Jan-18	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

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Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-08B-15 Rep (E801008-02) Vapor Sampled: 04-Jan-18 Received: 04-Jan-18									
o-Xylene	ND	0.40	ug/l	0.04	EA80501	04-Jan-18	04-Jan-18	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*107 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*99.3 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.9 %*		*75-125*	"	"	"	"	

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2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-08B-5 (E801008-03) Vapor Sampled: 04-Jan-18 Received: 04-Jan-18									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EA80501	04-Jan-18	04-Jan-18	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

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Carlsbad, CA 92010
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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-08B-5 (E801008-03) Vapor Sampled: 04-Jan-18 Received: 04-Jan-18									
o-Xylene	ND	0.40	ug/l	0.04	EA80501	04-Jan-18	04-Jan-18	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.2 %*		*75-125*	"	"	"	"	

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Carlsbad, CA 92010
760-804-9678 Phone
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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-10-4 (E801008-04) Vapor Sampled: 04-Jan-18 Received: 04-Jan-18									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EA80501	04-Jan-18	04-Jan-18	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

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Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

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Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-10-4 (E801008-04) Vapor Sampled: 04-Jan-18 Received: 04-Jan-18									
o-Xylene	ND	0.40	ug/l	0.04	EA80501	04-Jan-18	04-Jan-18	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.1 %*		*75-125*	"	"	"	"	

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Geochemistry Inc.

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Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-02C-15 (E801008-05) Vapor Sampled: 04-Jan-18 Received: 04-Jan-18									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EA80501	04-Jan-18	04-Jan-18	H&P 8260SV	
Dichlorodifluoromethane (F12)	**850**	20	"	2	"	"	"	"	
Chloromethane	ND	0.40	"	0.04	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	**0.60**	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	**1.6**	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

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Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-02C-15 (E801008-05) Vapor Sampled: 04-Jan-18 Received: 04-Jan-18									
o-Xylene	ND	0.40	ug/l	0.04	EA80501	04-Jan-18	04-Jan-18	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97.2 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.9 %*		*75-125*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-02C-5 (E801008-06) Vapor Sampled: 04-Jan-18 Received: 04-Jan-18									
1,1-Difluoroethane (LCC)	ND	0.40	ug/l	0.04	EA80501	04-Jan-18	04-Jan-18	H&P 8260SV	
Dichlorodifluoromethane (F12)	**0.46**	0.40	"	"	"	"	"	"	
Chloromethane	ND	0.40	"	"	"	"	"	"	
Vinyl chloride	ND	0.04	"	"	"	"	"	"	
Bromomethane	ND	0.40	"	"	"	"	"	"	
Chloroethane	ND	0.40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.40	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.08	"	"	"	"	"	"	
Bromochloromethane	ND	0.40	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.08	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.08	"	"	"	"	"	"	
Benzene	ND	0.08	"	"	"	"	"	"	
Trichloroethene	ND	0.08	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Bromodichloromethane	ND	0.40	"	"	"	"	"	"	
Dibromomethane	ND	0.40	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
Toluene	ND	0.80	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.40	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.40	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.40	"	"	"	"	"	"	
Tetrachloroethene	ND	0.08	"	"	"	"	"	"	
Dibromochloromethane	ND	0.40	"	"	"	"	"	"	
Chlorobenzene	ND	0.08	"	"	"	"	"	"	
Ethylbenzene	ND	0.40	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
m,p-Xylene	ND	0.40	"	"	"	"	"	"	

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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-02C-5 (E801008-06) Vapor Sampled: 04-Jan-18 Received: 04-Jan-18									
o-Xylene	ND	0.40	ug/l	0.04	EA80501	04-Jan-18	04-Jan-18	H&P 8260SV	
Styrene	ND	0.40	"	"	"	"	"	"	
Bromoform	ND	0.40	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.40	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.40	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.40	"	"	"	"	"	"	
n-Propylbenzene	ND	0.40	"	"	"	"	"	"	
Bromobenzene	ND	0.40	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.40	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.40	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.40	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.40	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
n-Butylbenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.40	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.40	"	"	"	"	"	"	
Naphthalene	ND	0.08	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.40	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.8 %*		*75-125*	"	"	"	"	

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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA80311 - EPA 5030										
Blank (EA80311-BLK1)				Prepared & Analyzed: 03-Jan-18						
1,1-Difluoroethane (LCC)	ND	0.40	ug/l							
Dichlorodifluoromethane (F12)	ND	0.40	"							
Chloromethane	ND	0.40	"							
Vinyl chloride	ND	0.04	"							
Bromomethane	ND	0.40	"							
Chloroethane	ND	0.40	"							
Trichlorofluoromethane (F11)	ND	0.40	"							
1,1-Dichloroethene	ND	0.40	"							
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"							
Methylene chloride (Dichloromethane)	ND	0.40	"							
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"							
trans-1,2-Dichloroethene	ND	0.40	"							
1,1-Dichloroethane	ND	0.40	"							
2,2-Dichloropropane	ND	0.40	"							
cis-1,2-Dichloroethene	ND	0.40	"							
Chloroform	ND	0.08	"							
Bromochloromethane	ND	0.40	"							
1,1,1-Trichloroethane	ND	0.40	"							
1,1-Dichloropropene	ND	0.40	"							
Carbon tetrachloride	ND	0.08	"							
1,2-Dichloroethane (EDC)	ND	0.08	"							
Benzene	ND	0.08	"							
Trichloroethene	ND	0.08	"							
1,2-Dichloropropane	ND	0.40	"							
Bromodichloromethane	ND	0.40	"							
Dibromomethane	ND	0.40	"							
cis-1,3-Dichloropropene	ND	0.40	"							
Toluene	ND	0.80	"							
trans-1,3-Dichloropropene	ND	0.40	"							
1,1,2-Trichloroethane	ND	0.40	"							
1,2-Dibromoethane (EDB)	ND	0.40	"							
1,3-Dichloropropane	ND	0.40	"							
Tetrachloroethene	ND	0.08	"							
Dibromochloromethane	ND	0.40	"							

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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA80311 - EPA 5030										
Blank (EA80311-BLK1)				Prepared & Analyzed: 03-Jan-18						
Chlorobenzene	ND	0.08	ug/l							
Ethylbenzene	ND	0.40	"							
1,1,1,2-Tetrachloroethane	ND	0.40	"							
m,p-Xylene	ND	0.40	"							
o-Xylene	ND	0.40	"							
Styrene	ND	0.40	"							
Bromoform	ND	0.40	"							
Isopropylbenzene (Cumene)	ND	0.40	"							
1,1,2,2-Tetrachloroethane	ND	0.40	"							
1,2,3-Trichloropropane	ND	0.40	"							
n-Propylbenzene	ND	0.40	"							
Bromobenzene	ND	0.40	"							
1,3,5-Trimethylbenzene	ND	0.40	"							
2-Chlorotoluene	ND	0.40	"							
4-Chlorotoluene	ND	0.40	"							
tert-Butylbenzene	ND	0.40	"							
1,2,4-Trimethylbenzene	ND	0.40	"							
sec-Butylbenzene	ND	0.40	"							
p-Isopropyltoluene	ND	0.40	"							
1,3-Dichlorobenzene	ND	0.40	"							
1,4-Dichlorobenzene	ND	0.40	"							
n-Butylbenzene	ND	0.40	"							
1,2-Dichlorobenzene	ND	0.40	"							
1,2-Dibromo-3-chloropropane	ND	4.0	"							
1,2,4-Trichlorobenzene	ND	0.40	"							
Hexachlorobutadiene	ND	0.40	"							
Naphthalene	ND	0.08	"							
1,2,3-Trichlorobenzene	ND	0.40	"							
Surrogate: Dibromofluoromethane	*2.14*		"	*2.00*		*107*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.06*		"	*2.00*		*103*	*75-125*			
Surrogate: Toluene-d8	*2.07*		"	*2.00*		*103*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1.95*		"	*2.00*		*97.3*	*75-125*			

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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA80311 - EPA 5030										
LCS (EA80311-BS1)				Prepared & Analyzed: 03-Jan-18						
Dichlorodifluoromethane (F12)	3.2	0.50	ug/l	5.00		64.0	70-130			QL-1L
Vinyl chloride	4.2	0.05	"	5.00		83.1	70-130			
Chloroethane	4.0	0.50	"	5.00		80.6	70-130			
Trichlorofluoromethane (F11)	4.6	0.50	"	5.00		92.9	70-130			
1,1-Dichloroethene	5.9	0.50	"	5.00		118	70-130			
1,1,2 Trichlorotrifluoroethane (F113)	6.2	0.50	"	5.00		125	70-130			
Methylene chloride (Dichloromethane)	4.9	0.50	"	5.00		97.6	70-130			
trans-1,2-Dichloroethene	5.5	0.50	"	5.00		109	70-130			
1,1-Dichloroethane	5.4	0.50	"	5.00		108	70-130			
cis-1,2-Dichloroethene	5.4	0.50	"	5.00		107	70-130			
Chloroform	5.2	0.10	"	5.00		103	70-130			
1,1,1-Trichloroethane	5.0	0.50	"	5.00		99.3	70-130			
Carbon tetrachloride	4.2	0.10	"	5.00		84.5	70-130			
1,2-Dichloroethane (EDC)	5.5	0.10	"	5.00		109	70-130			
Benzene	5.1	0.10	"	5.00		102	70-130			
Trichloroethene	5.4	0.10	"	5.00		109	70-130			
Toluene	4.8	1.0	"	5.00		95.0	70-130			
1,1,2-Trichloroethane	5.0	0.50	"	5.00		100	70-130			
Tetrachloroethene	5.5	0.10	"	5.00		109	70-130			
Ethylbenzene	5.0	0.50	"	5.00		100	70-130			
1,1,1,2-Tetrachloroethane	4.5	0.50	"	5.00		89.1	70-130			
m,p-Xylene	9.5	0.50	"	10.0		95.1	70-130			
o-Xylene	4.7	0.50	"	5.00		93.7	70-130			
1,1,2,2-Tetrachloroethane	4.5	0.50	"	5.00		91.0	70-130			
Surrogate: Dibromofluoromethane	*2.67*		*"*	*2.50*		*107*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.60*		*"*	*2.50*		*104*	*75-125*			
Surrogate: Toluene-d8	*2.62*		*"*	*2.50*		*105*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.42*		*"*	*2.50*		*96.7*	*75-125*			

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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA80501 - EPA 5030										
Blank (EA80501-BLK1)				Prepared & Analyzed: 04-Jan-18						
1,1-Difluoroethane (LCC)	ND	0.40	ug/l							
Dichlorodifluoromethane (F12)	ND	0.40	"							
Chloromethane	ND	0.40	"							
Vinyl chloride	ND	0.04	"							
Bromomethane	ND	0.40	"							
Chloroethane	ND	0.40	"							
Trichlorofluoromethane (F11)	ND	0.40	"							
1,1-Dichloroethene	ND	0.40	"							
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.40	"							
Methylene chloride (Dichloromethane)	ND	0.40	"							
Methyl tertiary-butyl ether (MTBE)	ND	0.40	"							
trans-1,2-Dichloroethene	ND	0.40	"							
1,1-Dichloroethane	ND	0.40	"							
2,2-Dichloropropane	ND	0.40	"							
cis-1,2-Dichloroethene	ND	0.40	"							
Chloroform	ND	0.08	"							
Bromochloromethane	ND	0.40	"							
1,1,1-Trichloroethane	ND	0.40	"							
1,1-Dichloropropene	ND	0.40	"							
Carbon tetrachloride	ND	0.08	"							
1,2-Dichloroethane (EDC)	ND	0.08	"							
Benzene	ND	0.08	"							
Trichloroethene	ND	0.08	"							
1,2-Dichloropropane	ND	0.40	"							
Bromodichloromethane	ND	0.40	"							
Dibromomethane	ND	0.40	"							
cis-1,3-Dichloropropene	ND	0.40	"							
Toluene	ND	0.80	"							
trans-1,3-Dichloropropene	ND	0.40	"							
1,1,2-Trichloroethane	ND	0.40	"							
1,2-Dibromoethane (EDB)	ND	0.40	"							
1,3-Dichloropropane	ND	0.40	"							
Tetrachloroethene	ND	0.08	"							
Dibromochloromethane	ND	0.40	"							

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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA80501 - EPA 5030										
Blank (EA80501-BLK1)				Prepared & Analyzed: 04-Jan-18						
Chlorobenzene	ND	0.08	ug/l							
Ethylbenzene	ND	0.40	"							
1,1,1,2-Tetrachloroethane	ND	0.40	"							
m,p-Xylene	ND	0.40	"							
o-Xylene	ND	0.40	"							
Styrene	ND	0.40	"							
Bromoform	ND	0.40	"							
Isopropylbenzene (Cumene)	ND	0.40	"							
1,1,2,2-Tetrachloroethane	ND	0.40	"							
1,2,3-Trichloropropane	ND	0.40	"							
n-Propylbenzene	ND	0.40	"							
Bromobenzene	ND	0.40	"							
1,3,5-Trimethylbenzene	ND	0.40	"							
2-Chlorotoluene	ND	0.40	"							
4-Chlorotoluene	ND	0.40	"							
tert-Butylbenzene	ND	0.40	"							
1,2,4-Trimethylbenzene	ND	0.40	"							
sec-Butylbenzene	ND	0.40	"							
p-Isopropyltoluene	ND	0.40	"							
1,3-Dichlorobenzene	ND	0.40	"							
1,4-Dichlorobenzene	ND	0.40	"							
n-Butylbenzene	ND	0.40	"							
1,2-Dichlorobenzene	ND	0.40	"							
1,2-Dibromo-3-chloropropane	ND	4.0	"							
1,2,4-Trichlorobenzene	ND	0.40	"							
Hexachlorobutadiene	ND	0.40	"							
Naphthalene	ND	0.08	"							
1,2,3-Trichlorobenzene	ND	0.40	"							
Surrogate: Dibromofluoromethane	*2.14*		*"*	*2.00*		*107*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*1.96*		*"*	*2.00*		*98.0*	*75-125*			
Surrogate: Toluene-d8	*2.03*		*"*	*2.00*		*102*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1.94*		*"*	*2.00*		*97.0*	*75-125*			

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Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Volatile Organic Compounds by H&P 8260SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA80501 - EPA 5030										
LCS (EA80501-BS1)				Prepared & Analyzed: 04-Jan-18						
Dichlorodifluoromethane (F12)	3.2	0.50	ug/l	5.00		63.1	70-130			QL-1L
Vinyl chloride	4.3	0.05	"	5.00		85.2	70-130			
Chloroethane	4.0	0.50	"	5.00		80.8	70-130			
Trichlorofluoromethane (F11)	4.8	0.50	"	5.00		95.6	70-130			
1,1-Dichloroethene	5.7	0.50	"	5.00		115	70-130			
1,1,2 Trichlorotrifluoroethane (F113)	6.1	0.50	"	5.00		122	70-130			
Methylene chloride (Dichloromethane)	4.8	0.50	"	5.00		96.2	70-130			
trans-1,2-Dichloroethene	5.4	0.50	"	5.00		107	70-130			
1,1-Dichloroethane	5.2	0.50	"	5.00		105	70-130			
cis-1,2-Dichloroethene	5.3	0.50	"	5.00		106	70-130			
Chloroform	5.1	0.10	"	5.00		101	70-130			
1,1,1-Trichloroethane	5.1	0.50	"	5.00		102	70-130			
Carbon tetrachloride	4.7	0.10	"	5.00		94.5	70-130			
1,2-Dichloroethane (EDC)	5.6	0.10	"	5.00		112	70-130			
Benzene	5.0	0.10	"	5.00		99.3	70-130			
Trichloroethene	5.1	0.10	"	5.00		102	70-130			
Toluene	4.5	1.0	"	5.00		90.6	70-130			
1,1,2-Trichloroethane	4.9	0.50	"	5.00		98.6	70-130			
Tetrachloroethene	5.2	0.10	"	5.00		105	70-130			
Ethylbenzene	4.9	0.50	"	5.00		98.5	70-130			
1,1,1,2-Tetrachloroethane	4.9	0.50	"	5.00		97.1	70-130			
m,p-Xylene	9.6	0.50	"	10.0		95.6	70-130			
o-Xylene	4.6	0.50	"	5.00		91.5	70-130			
1,1,2,2-Tetrachloroethane	4.7	0.50	"	5.00		94.3	70-130			
Surrogate: Dibromofluoromethane	*2.70*		*"*	*2.50*		*108*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.66*		*"*	*2.50*		*106*	*75-125*			
Surrogate: Toluene-d8	*2.58*		*"*	*2.50*		*103*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.45*		*"*	*2.50*		*98.0*	*75-125*			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy / Jenks Consultants, Inc. -Temecula	Project: KJ010318-L4	
Three Better World Circle, Suite 200	Project Number: 1583018*01_1/ Via Valmonte	Reported:
Temecula, CA 92590	Project Manager: Mr. Ryan Strandberg	11-Jan-18 09:51

Notes and Definitions

QL-1L	The LCS and/or LCSD recoveries fell below the established control specifications for this analyte. Any result for this compound is qualified and should be considered biased low.
LCC	Leak Check Compound
ND	Analyte NOT DETECTED at or above the reporting limit
MDL	Method Detection Limit
%REC	Percent Recovery
RPD	Relative Percent Difference

All soil results are reported in wet weight.

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs, accreditation number 69070 for EPA Method TO-15, H&P Method TO-15, EPA Method 8260B and H&P 8260SV.

H&P is approved by the State of Arizona as an Environmental Testing Laboratory and Mobile Laboratory, certification numbers AZM758 and AZ0779.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743, 2744, 2745, 2754 & 2930.

H&P is approved by the State of Florida Department of Health under the National Environmental Laboratory Accreditation Conference (NELAC) certification number E871100.

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

H&P Mobile Geochemistry, Inc.

2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 1/3/18
Page 1 of 2

Lab Client and Project Information

Lab Client/Consultant: Kennedy Jenks Consultants, Inc.	Project Name / #: 1583018*01_1
Lab Client Project Manager: Ryan Strandberg	Project Location: Via Valmonte & Hawthorne Blvd
Lab Client Address: Three Better World Circle Suite 200	Report E-Mail(s): ryan.strandberg@kennedyjenks.com
Lab Client City, State, Zip: Temecula, CA 92590	
Phone Number:	

Sample Receipt (Lab Use Only)

Date Rec'd: 1/3/18	Control #: 180017.01
H&P Project # KJ010318-L4	
Lab Work Order # E801006	
Sample Intact: ☒ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID:	Temp: 20°C
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☒ Other EDD: TBD
☐ CA Geotracker Global ID:

Turnaround Time

☐ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☒ Mobile Lab
☐ 48-Hr Rush ☐ Other:

Sampler Information

Sampler(s): Ralph R. Terry
Signature:
Date: 1/3/18

Additional Instructions to Laboratory:

EA 80311
LRLs (25cc)

*** Preferred VOC units (please choose one):**
☐ µg/L ☐ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☒ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☐ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15	TPHv as Gas ☐ 8260SVm ☐ TO-15m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2				
SV-02-15		01/03/18	1121	SV	GLASS SYRINGE	174		✓						✓						
SV-02A-15			1138			217		✓						✓						
SV-02A-15 Rep			1139			244		✓						✓						
SV-02A-5			1215			212		✓						✓						
SV-09-15			1229			245		✓						✓						
SV-09-5			1243			248		✓						✓						
SV-08A-15			1316			174		✓						✓						
SV-08A-5			1332			217		✓						✓						
SV-02B-15			1353			244		✓						✓						
SV-02B-5			1405			212		✓						✓						

Approved/Relinquished by:	Company: KJ	Date: 01/04/18	Time: 1641	Received by: Ralph R. Terry	Company: H&P	Date: 1/3/18	Time: 1600
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

H&P Mobile Geochemistry, Inc.

2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 1/3/18

Lab Client and Project Information

Lab Client/Consultant: Kennedy Jenks Consultants, Inc.	Project Name / #: 1583018*01_1
Lab Client Project Manager: Ryan Strandberg	Project Location: Via Valmonte & Hawthorne Blvd
Lab Client Address: Three Better Ward Circle Suite 200	Report E-Mail(s): ryanstrandberg@kennedyjenks.com
Lab Client City, State, Zip: Temecula, CA 92596	
Phone Number:	

Sample Receipt (Lab Use Only)

Date Rec'd: 1/3/18	Control #: 180017.01
H&P Project #: KJ010318-L4	
Lab Work Order #: E801006	
Sample Intact: ☑ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID:	Temp: 20°C
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements

☑ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☑ Other EDD: TBD
☐ CA Geotracker Global ID:

Turnaround Time

☐ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☑ Mobile Lab
☐ 48-Hr Rush ☐ Other:

Sampler Information

Sampler(s): Ralph R. Tovar
Signature:
Date: 1/3/18

Additional Instructions to Laboratory:

EA80311
LRLs (25cc)

*** Preferred VOC units (please choose one):**
☐ µg/L ☐ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☑ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☐ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15	TPHv as Gas ☐ 8260SV/m ☐ TO-15m	Aromatic/Aliphatic Fractions ☐ 8260SV/m ☐ TO-15m	Leak Check Compound ☑ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2				
SV-08-15		01/03/18	1504	SV	GLASS SYRINGE	245		✓						✓						
SV-08C-15		↓	1530	↓	↓	248		✓						✓						
SV-08C-S		↓	1542	↓	↓	174		✓						✓						

Approved/Relinquished by:	Company: H&P	Date: 01/04/18	Time: 7641	Received by: Ralph R. Tovar	Company: H&P	Date: 1/3/18	Time: 1600
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

Mobile Geochemistry, Inc.
2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 1/4/18
Page 1 of 1

Lab Client and Project Information

Lab Client/Consultant: Kennedy Jenks Consultants, Inc.	Project Name / #: 1583018*01_1
Lab Client Project Manager: Ryan Strandberg	Project Location: Via Valmonte & Hawthorne Blvd
Lab Client Address: Three Better World Circle Suite 200	Report E-Mail(s): ryan.strandberg@kennedyjenks.com
Lab Client City, State, Zip: Temecula, CA 92596	
Phone Number:	

Sample Receipt (Lab Use Only)

Date Rec'd: 1/4/18	Control #: 180017.01
H&P Project # KJ010318-L4	
Lab Work Order # E801008	
Sample Intact: ☒ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID:	Temp: 20°C
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements	Turnaround Time	Sampler Information
☒ Standard Report ☐ Level III ☐ Level IV	☐ 5-7 day Stnd ☐ 24-Hr Rush	Sampler(s): Ralph R. Tarr
☐ Excel EDD ☒ Other EDD: TBD	☐ 3-day Rush ☒ Mobile Lab	Signature:
☐ CA Geotracker Global ID:	☐ 48-Hr Rush ☐ Other:	Date: 1/4/18

Additional Instructions to Laboratory:

EA80501
LRLs (25cc)

Preferred VOC units (please choose one):
☐ µg/L ☐ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☒ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☐ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15	TPHv as Gas ☐ 8260SVm ☐ TO-15m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2
SV-08B-15		01/04/18	0932	SV	GLASS SYRINGE	174		✓						✓		
SV-08B-15 Rep			0933			217		✓						✓		
SV-08B-5			0938			244		✓						✓		
SV-10-4			1013			212		✓						✓		
SV-02C-15			1708			245		✓						✓		
SV-02C-5		1/4	~~1730~~		248	~~244~~		✓						✓		
			RT 1/5/18			RT 1/5/18										

Approved/Relinquished by:	Company: K.J	Date: 01/04/18	Time: 1821	Received by: Ralph R. Tarr	Company: H&P	Date: 1/4/18	Time: 1821
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

H&P Mobile Geochemistry Inc.

FMS004
Revision: 4
Revised: 3/22/2017
Effective: 3/24/2017
Page 1 of 1

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: KJ0103/8-L4 Date: 1/3/18
Site Address: Via Valmonte & Hawthorne Blvd Page: 1 of 2
Consultant: Kennedy Jenks Consultants, Inc. H&P Rep(s): R. Torres, J. Hernandez
Consultant Rep(s): Wes Ellis K. Schindler
Reviewed: DB
Scanned: TTorres

Equipment Info
Inline Gauge ID#: 728
Pump ID#: 040

Purge Volume Information
PV Amount: 3
PV Includes: ☑ Tubing ☐ Sand 40% ☐ Dry Bent 50%

Leak Check Compound ☑ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other:
A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.

Resample Key
RS = Resample
RD = for Dilution
RL = for LCC Fail

	Sample Information				Probe Specs							Purge & Collection Information						
	Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac ☐ Hg ☑ H_2O
1	SV02-15	174	50	1121	15	17	1/8	12	1.5	6	1.5	✓	✓	726	200	3:38	200	Ø
2	SV-02A-15	217	50	1138	15	17	1/8	12	1.5	6	1.5	✓	✓	726	200	3:38	200	10
3	SV-02A-15 Rep	244	50	1139	15	17	1/8	12	1.5	6	1.5	✓	✓	776	200	—	200	10
4	SV-02A-5	212	50	1215	5	7	1/8	12	1.5	12	1.5	✓	✓	958	200	4:47	200	Ø
5	SV-09E-15	249	50	1229	15	17	1/8	12	1.5	6	1.5	✓	✓	726	200	3:38	200	Ø
6	SV-09E-5	248	50	1243	5	7	1/8	12	1.5	12	1.5	✓	✓	726 958	200	4:47	200	Ø
7	SV-08A-15	174	50	1316	15	17	1/8	12	1.5	6	1.5	✓	✓	726	200	3:38	200	95
8	SV-08A-5	217	50	1332	5	7	1/8	12	1.5	6	1.5	✓	✓	697	200	3:29	200	Ø
9	SV-02B-15	244	50	1353	15	17	1/8	12	1.5	6	1.5	✓	✓	726	200	3:38	200	Ø
10	SV-02B-5	212	50	1405	5	7	1/8	12	1.5	12	1.5	✓	✓	958	200	4:47	200	Ø
11	SV-08-15	245	50	1504	15	17	1/8	12	1.5	6	1.5	✓	✓	726	200	3:38	200	Ø
12	SV-08C-15	248	50	1530	15	17	1/8	12	1.5	6	1.5	✓	✓	726	200	3:38	200	Ø

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):
⑦1316 ⑤SV-09-15 ⑥SV-09-5

H&P Mobile Geochemistry Inc.

FMS004
Revision: 4
Revised: 3/22/2017
Effective: 3/24/2017
Page 1 of 1

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: KJ0103/8-L4 Date: 1/3/18
Site Address: Via Valmonte & Hawthorne Blvd Page: 2 of 2
Consultant: Kennedy Jenks Consultants, Inc. H&P Rep(s): R. Torres
Consultant Rep(s): Wes Ellis

Reviewed: DB
Scanned: TTorres

Equipment Info
Inline Gauge ID#: T28
Pump ID#: 040

Purge Volume Information
PV Amount: 3
PV Includes: ☑ Tubing ☑ Sand 40% ☐ Dry Bent 50%

Leak Check Compound
A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.
☑ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other:

Resample Key
RS = Resample
RD = for Dilution
RL = for LCC Fail

	Sample Information				Probe Specs							Purge & Collection Information						
	Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac ☐ Hg ☑ H_2O
1	SV-08C-5	174	90	1542	5	7	1/8	12	1.5	12	1.5	✓	✓	958	4.47 200 RS 1/5/18	4:47	200	✓
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):

H&P Mobile Geochemistry Inc.

FMS004
Revision: 4
Revised: 3/22/2017
Effective: 3/24/2017
Page 1 of 1

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: K5010318-L4 Date: 1/4/18
Site Address: Via Valmonte & Hawthorne Blvd Page: 1 of 1
Consultant: Kennedy Jenks Consultants, Inc. H&P Rep(s): R. Jones
Consultant Rep(s): Wes Ellis

Reviewed: DB
Scanned: T Jones

Equipment Info
Inline Gauge ID#: 728
Pump ID#: 040

Purge Volume Information
PV Amount: 3
PV Includes: ☑ Tubing ☑ Sand 40% ☑ Dry Bent 50%

Leak Check Compound
A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.
☑ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other:

Resample Key
RS = Resample
RD = for Dilution
RL = for LCC Fail

	Sample Information				Probe Specs							Purge & Collection Information						
	Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac ☐ Hg ☐ H_2O
1	SV-08B-15	174	50	932	15	17	1/8	12	1.5	6	1.5	✓	✓	726	200	3:38	200	Ø
2	SV-08B-15 Rep	217	50	933	15	17	1/8	12	1.5	6	1.5	✓	✓	776	200	—	200	Ø
3	SV-08B-5	241	50	958	5	7	1/8	12	1.5	12	1.5	✓	✓	958	200	4:47	200	Ø
4	SV-10-4	212	50	1013	4	4	1/8	12	.75	6	.75	✓	✓	181	200	—	200	Ø Hg
5	SV-02C-15	245	50	1905	15	17	1/8	12	1.5	6	1.5	✓	✓	726	200	3:38	200	5
6	SV-02C-5	248	50	~~1524~~	5	7	1/8	12	1.5	6	1.5	✓	✓	697	200	3:29	200	Ø
7	SV-02C-15 RL	244	50 RS 1/4/18	1724 1730	15	17	1/8	12	1.5	6	1.5	✓	✓	776	200	—	200	5
8																		
9																		
10																		
11																		
12																		

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Kennedy Jenks Consultants, Inc.	**Report date:**	1/6/2018
Client Address:	Three Better World Circle, Suite 200 Temecula, CA 92590	**JEL Ref. No.:** **Client Ref. No.:**	E-0821 1583018-01_1
Attn:	Ryan Strandberg	**Date Sampled:** **Date Received:**	1/6/2018 1/6/2018
Project Name:	Solana	**Date Analyzed:**	1/6/2018
Project Address:	Hawthorne & Via Valmonte Torrance, CA	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers.

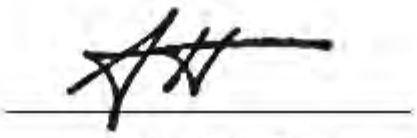
A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-pentane, n-hexane, or n-heptane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of sampling.

Approval: 

Angela Haar, Ph. D.
Mobile Lab Manager

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Kennedy / Jenks Consultants, Inc.	**Report date:**	1/6/2018
Client Address:	Three Better World Circle, Suite 200 Temecula, CA 92590	**Jones Ref. No.:** **Client Ref. No.:**	E-0821 1583018-01_1
Attn:	Ryan Strandberg	**Date Sampled:**	1/6/2018
		Date Received:	1/6/2018
Project:	Solana	**Date Analyzed:**	1/6/2018
Project Address:	Hawthorne & Via Valmonte Torrance, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**SV-02C-2-15'**	**SV-02C-2-5'**	**SV-02C-1-5'**	**SV-02C-1-15'**	**SV-02C-3-5'**		
Jones ID:	**E-0821-01**	**E-0821-02**	**E-0821-03**	**E-0821-04**	**E-0821-05**	**Practical Quantitation Limit**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	µg/L
Bromoform	ND	ND	ND	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Chloroform	ND	ND	ND	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Dichlorodifluoromethane	**9.99**	ND	ND	**0.299**	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**SV-02C-2-15'**	**SV-02C-2-5'**	**SV-02C-1-5'**	**SV-02C-1-15'**	**SV-02C-3-5'**		
Jones ID:	**E-0821-01**	**E-0821-02**	**E-0821-03**	**E-0821-04**	**E-0821-05**	**Practical Quantitation Limit**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Freon 113	ND	ND	ND	ND	ND	0.100	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.100	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Styrene	ND	ND	ND	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	µg/L
Tetrachloroethene	**0.165**	**0.075**	**1.33**	**5.05**	**0.433**	0.020	µg/L
Toluene	**0.021**	ND	**0.258**	**0.719**	**0.086**	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.100	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
Trichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	µg/L
m,p-Xylene	ND	ND	ND	**0.046**	ND	0.020	µg/L
o-Xylene	ND	ND	ND	ND	ND	0.020	µg/L
MTBE	ND	ND	ND	ND	ND	0.100	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.100	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	1.000	µg/L
TIC:							
n-Pentane	ND	ND	ND	ND	ND	1.000	µg/L
n-Hexane	ND	ND	ND	ND	ND	1.000	µg/L
n-Heptane	ND	ND	ND	ND	ND	1.000	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	123%	89%	90%	125%	94%	60 - 140	
Toluene-d_8	93%	96%	93%	93%	96%	60 - 140	
4-Bromofluorobenzene	99%	101%	101%	99%	100%	60 - 140	
	E1-010618-E-0821	E2-010618-E-0821	E2-010618-E-0821	E1-010618-E-0821	E2-010618-E-0821		

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Kennedy / Jenks Consultants, Inc.	**Report date:**	1/6/2018
Client Address:	Three Better World Circle, Suite 200	**Jones Ref. No.:**	E-0821
	Temecula, CA 92590	**Client Ref. No.:**	1583018-01_1
Attn:	Ryan Strandberg	**Date Sampled:**	1/6/2018
		Date Received:	1/6/2018
Project:	Solana	**Date Analyzed:**	1/6/2018
Project Address:	Hawthorne & Via Valmonte	**Physical State:**	Soil Gas
	Torrance, CA		

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**SV-02C-3-15'**	**SV-02C-6-5'**	**SV-02C-6-15'**	**SV-02C-25'**	**SV-02C-25' REP**		
Jones ID:	**E-0821-06**	**E-0821-07**	**E-0821-08**	**E-0821-09**	**E-0821-10**	**Practical Quantitation Limit**	**Units**
Analytes:							
Benzene	**0.033**	ND	ND	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	µg/L
Bromoform	ND	ND	ND	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Chloroform	ND	ND	ND	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Dichlorodifluoromethane	ND	ND	**0.237**	**0.022**	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV-02C-3-15'	SV-02C-6-5'	SV-02C-6-15'	SV-02C-25'	SV-02C-25' REP		
Jones ID:	**E-0821-06**	**E-0821-07**	**E-0821-08**	**E-0821-09**	**E-0821-10**	**Practical Quantitation Limit**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
Ethylbenzene	**0.174**	ND	ND	ND	ND	0.020	µg/L
Freon 113	ND	ND	ND	ND	ND	0.100	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.100	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Styrene	ND	ND	ND	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	µg/L
Tetrachloroethene	**5.46**	**0.034**	**0.531**	**0.400**	**0.287**	0.020	µg/L
Toluene	**13.0**	**0.231**	**1.11**	ND	ND	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.100	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
Trichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	µg/L
m,p-Xylene	**0.594**	ND	**0.036**	ND	ND	0.020	µg/L
o-Xylene	**0.158**	ND	ND	ND	ND	0.020	µg/L
MTBE	ND	ND	ND	ND	ND	0.100	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.100	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	1.000	µg/L
TIC:							
n-Pentane	ND	ND	ND	ND	ND	1.000	µg/L
n-Hexane	ND	ND	ND	ND	ND	1.000	µg/L
n-Heptane	ND	ND	ND	ND	ND	1.000	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	125%	95%	125%	97%	97%	60 - 140	
Toluene-d_8	93%	99%	93%	96%	95%	60 - 140	
4-Bromofluorobenzene	99%	103%	100%	102%	96%	60 - 140	
	E1-010618-E-0821	E2-010618-E-0821	E1-010618-E-0821	E2-010618-E-0821	E2-010618-E-0821		

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Kennedy / Jenks Consultants, Inc.	**Report date:**	1/6/2018
Client Address:	Three Better World Circle, Suite 200	**Jones Ref. No.:**	E-0821
	Temecula, CA 92590	**Client Ref. No.:**	1583018-01_1
Attn:	Ryan Strandberg	**Date Sampled:**	1/6/2018
		Date Received:	1/6/2018
Project:	Solana	**Date Analyzed:**	1/6/2018
Project Address:	Hawthorne & Via Valmonte	**Physical State:**	Soil Gas
	Torrance, CA		

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**SV-02C-35'**	**SV-02C-5-5'**	**SV-02C-5-15'**	**SV-02C-4-5'**	**SV-02C-4-15'**		
Jones ID:	**E-0821-11**	**E-0821-12**	**E-0821-13**	**E-0821-14**	**E-0821-15**	**Practical Quantitation Limit**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	µg/L
Bromoform	ND	ND	ND	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Chloroform	ND	ND	ND	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Dichlorodifluoromethane	ND	ND	**1.59**	ND	**0.543**	0.020	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV-02C-35'	SV-02C-5-5'	SV-02C-5-15'	SV-02C-4-5'	SV-02C-4-15'		
Jones ID:	**E-0821-11**	**E-0821-12**	**E-0821-13**	**E-0821-14**	**E-0821-15**	**Practical Quantitation Limit**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	ND	ND	**0.056**	0.020	µg/L
Freon 113	ND	ND	ND	ND	ND	0.100	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.100	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Styrene	ND	ND	ND	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	µg/L
Tetrachloroethene	**0.379**	**0.303**	**2.46**	**0.139**	**0.086**	0.020	µg/L
Toluene	ND	**0.691**	**0.520**	ND	**1.55**	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.100	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
Trichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	µg/L
m,p-Xylene	ND	ND	**0.038**	ND	**0.301**	0.020	µg/L
o-Xylene	ND	ND	ND	ND	**0.111**	0.020	µg/L
MTBE	ND	ND	ND	ND	ND	0.100	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.100	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	1.000	µg/L
TIC:							
n-Pentane	ND	ND	ND	ND	ND	1.000	µg/L
n-Hexane	ND	ND	ND	ND	ND	1.000	µg/L
n-Heptane	ND	ND	ND	ND	ND	1.000	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	124%	96%	127%	95%	127%	60 - 140	
Toluene-d_8	91%	95%	94%	96%	92%	60 - 140	
4-Bromofluorobenzene	98%	104%	98%	100%	96%	60 - 140	
	E1-010618-E-0821	E2-010618-E-0821	E1-010618-E-0821	E2-010618-E-0821	E1-010618-E-0821		

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Kennedy / Jenks Consultants, Inc.	**Report date:**	1/6/2018
Client Address:	Three Better World Circle, Suite 200 Temecula, CA 92590	**Jones Ref. No.:** **Client Ref. No.:**	E-0821 1583018-01_1
Attn:	Ryan Strandberg	**Date Sampled:**	1/6/2018
		Date Received:	1/6/2018
Project:	Solana	**Date Analyzed:**	1/6/2018
Project Address:	Hawthorne & Via Valmonte Torrance, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**SV-02C-1-25'**	**SV-02C-1-35'**	**SV-02C-2-25'**		
Jones ID:	**E-0821-16**	**E-0821-17**	**E-0821-18**	**Practical Quantitation Limit**	**Units**
Analytes:					
Benzene	ND	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	ND	0.020	µg/L
Bromoform	ND	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	ND	0.020	µg/L
sec-Butylbenzene	ND	ND	ND	0.020	µg/L
tert-Butylbenzene	ND	ND	ND	0.020	µg/L
Carbon tetrachloride	ND	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	ND	0.020	µg/L
Chloroform	ND	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	ND	0.020	µg/L
4-Chlorotoluene	ND	ND	ND	0.020	µg/L
Dibromochloromethane	ND	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	ND	0.020	µg/L
1,3-Dichlorobenzene	ND	ND	ND	0.020	µg/L
1,4-Dichlorobenzene	ND	ND	ND	0.020	µg/L
Dichlorodifluoromethane	ND	ND	**0.786**	0.020	µg/L
1,1-Dichloroethane	ND	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	ND	0.020	µg/L
1,1-Dichloropropene	ND	ND	ND	0.020	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV-02C-1-25'	SV-02C-1-35'	SV-02C-2-25'		
Jones ID:	**E-0821-16**	**E-0821-17**	**E-0821-18**	**Practical Quantitation Limit**	**Units**
Analytes:					
cis-1,3-Dichloropropene	ND	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	ND	0.020	µg/L
Freon 113	ND	ND	ND	0.100	µg/L
Hexachlorobutadiene	ND	ND	ND	0.020	µg/L
Isopropylbenzene	ND	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	ND	0.020	µg/L
Naphthalene	ND	ND	ND	0.100	µg/L
n-Propylbenzene	ND	ND	ND	0.020	µg/L
Styrene	ND	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.020	µg/L
Tetrachloroethene	**1.21**	**0.237**	**0.433**	0.020	µg/L
Toluene	ND	**0.022**	**0.023**	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	0.100	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	0.020	µg/L
1,1,1-Trichloroethane	ND	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	ND	0.020	µg/L
Trichloroethene	ND	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	ND	0.020	µg/L
1,2,3-Trichloropropane	ND	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	ND	0.020	µg/L
m,p-Xylene	ND	ND	ND	0.020	µg/L
o-Xylene	ND	ND	ND	0.020	µg/L
MTBE	ND	ND	ND	0.100	µg/L
Ethyl-tert-butylether	ND	ND	ND	0.100	µg/L
Di-isopropylether	ND	ND	ND	0.100	µg/L
tert-amylmethylether	ND	ND	ND	0.100	µg/L
tert-Butylalcohol	ND	ND	ND	1.000	µg/L
TIC:					
n-Pentane	ND	ND	ND	1.000	µg/L
n-Hexane	ND	ND	ND	1.000	µg/L
n-Heptane	ND	ND	ND	1.000	µg/L
Dilution Factor	1	1	1		
Surrogate Recoveries:				**QC Limits**	
Dibromofluoromethane	127%	96%	128%	60 - 140	
Toluene-d_8	95%	93%	93%	60 - 140	
4-Bromofluorobenzene	103%	102%	97%	60 - 140	
	E1-010618-E-0821	E2-010618-E-0821	E1-010618-E-0821		

ND= Not Detected

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Kennedy / Jenks Consultants, Inc.	**Report date:**	1/6/2018
Client Address:	Three Better World Circle, Suite 200 Temecula, CA 92590	**Jones Ref. No.:** **Client Ref. No.:**	E-0821 1583018-01_1
Attn:	Ryan Strandberg	**Date Sampled:**	1/6/2018
		Date Received:	1/6/2018
Project:	Solana	**Date Analyzed:**	1/6/2018
Project Address:	Hawthorne & Via Valmonte Torrance, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK	METHOD BLANK	SAMPLING BLANK		
Jones ID:	010618-E1-MB1	010618-E1SB1	010618-E2MB1	010618-E2SB1	**Practical Quantitation Limit**	**Units**
Analytes:						
Benzene	ND	ND	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	ND	ND	0.020	µg/L
Bromoform	ND	ND	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	ND	ND	0.020	µg/L
sec-Butylbenzene	ND	ND	ND	ND	0.020	µg/L
tert-Butylbenzene	ND	ND	ND	ND	0.020	µg/L
Carbon tetrachloride	ND	ND	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	ND	ND	0.020	µg/L
Chloroform	ND	ND	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	ND	ND	0.020	µg/L
4-Chlorotoluene	ND	ND	ND	ND	0.020	µg/L
Dibromochloromethane	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	0.020	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	0.020	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	0.020	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	0.020	µg/L

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK	METHOD BLANK	SAMPLING BLANK		
Jones ID:	010618-E1-MB1	010618-E1SB1	010618-E2MB1	010618-E2SB1	**Practical Quantitation Limit**	**Units**
Analytes:						
cis-1,3-Dichloropropene	ND	ND	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	ND	ND	0.020	µg/L
Freon 113	ND	ND	ND	ND	0.100	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	0.020	µg/L
Isopropylbenzene	ND	ND	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	ND	ND	0.020	µg/L
Naphthalene	ND	ND	ND	ND	0.100	µg/L
n-Propylbenzene	ND	ND	ND	ND	0.020	µg/L
Styrene	ND	ND	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.020	µg/L
Tetrachloroethene	ND	ND	ND	ND	0.020	µg/L
Toluene	ND	ND	ND	ND	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	0.100	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	0.020	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	0.020	µg/L
Trichloroethene	ND	ND	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	0.020	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	ND	ND	0.020	µg/L
m,p-Xylene	ND	ND	ND	ND	0.020	µg/L
o-Xylene	ND	ND	ND	ND	0.020	µg/L
MTBE	ND	ND	ND	ND	0.100	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	0.100	µg/L
Di-isopropylether	ND	ND	ND	ND	0.100	µg/L
tert-amylmethylether	ND	ND	ND	ND	0.100	µg/L
tert-Butylalcohol	ND	ND	ND	ND	1.000	µg/L
TIC:						
n-Pentane	ND	ND	ND	ND	1.000	µg/L
n-Hexane	ND	ND	ND	ND	1.000	µg/L
n-Heptane	ND	ND	ND	ND	1.000	µg/L
Dilution Factor	1	1	1	1		
Surrogate Recoveries:					**QC Limits**	
Dibromofluoromethane	126%	125%	85%	97%	60 - 140	
Toluene-d_8	96%	78%	97%	98%	60 - 140	
4-Bromofluorobenzene	98%	80%	98%	100%	60 - 140	
	E1-010618-E-0821	E1-010618-E-0821	E2-010618-E-0821	E2-010618-E-0821		

ND= Not Detected

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Kennedy / Jenks Consultants, Inc.	**Report date:**	1/6/2018
Client Address:	Three Better World Circle, Suite 200	**Jones Ref. No.:**	E-0821
	Temecula, CA 92590	**Client Ref. No.:**	1583018-01_1
Attn:	Ryan Strandberg	**Date Sampled:**	1/6/2018
		Date Received:	1/6/2018
Project:	Solana	**Date Analyzed:**	1/6/2018
Project Address:	Hawthorne & Via Valmonte	**Physical State:**	Soil Gas
	Torrance, CA		

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Batch ID: E1-010618-E-0821

Jones ID:	**010617-E1LCS**	**010618-E1LCSD**			**010618-E1CCV**	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	125%	122%	2.4%	70 - 130	136%	80 - 120
1,1-Dichloroethene	90%	93%	3.5%	70 - 130	100%	80 - 120
Cis-1,2-Dichloroethene	131%	130%	0.4%	70 - 130	116%	80 - 120
1,1,1-Trichloroethane	106%	105%	0.9%	70 - 130	103%	80 - 120
Benzene	109%	111%	1.3%	70 - 130	106%	80 - 120
Trichloroethene	108%	110%	1.3%	70 - 130	110%	80 - 120
Toluene	100%	104%	3.8%	70 - 130	96%	80 - 120
Tetrachloroethene	115%	115%	0.5%	70 - 130	107%	80 - 120
Chlorobenzene	127%	123%	3.1%	70 - 130	118%	80 - 120
Ethylbenzene	102%	103%	1.0%	70 - 130	91%	80 - 120
1,2,4 Trimethylbenzene	114%	111%	3.0%	70 - 130	109%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	121%	117%		60 - 140	113%	60 - 140
Toluene-d_8	94%	96%		60 - 140	96%	60 - 140
4-Bromofluorobenzene	102%	101%		60 - 140	103%	60 - 140

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Kennedy / Jenks Consultants, Inc.	**Report date:**	1/6/2018
Client Address:	Three Better World Circle, Suite 200	**Jones Ref. No.:**	E-0821
	Temecula, CA 92590	**Client Ref. No.:**	1583018-01_1
Attn:	Ryan Strandberg	**Date Sampled:**	1/6/2018
		Date Received:	1/6/2018
Project:	Solana	**Date Analyzed:**	1/6/2018
Project Address:	Hawthorne & Via Valmonte	**Physical State:**	Soil Gas
	Torrance, CA		

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Batch ID: E2-010618-E-0821

Jones ID:	**010618-E2LCS**	**010618-E2LCSD**			**010618-E2CCV**	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	86%	85%	2.2%	70 - 130	109%	80 - 120
1,1-Dichloroethene	107%	102%	5.0%	70 - 130	89%	80 - 120
Cis-1,2-Dichloroethene	100%	94%	6.3%	70 - 130	106%	80 - 120
1,1,1-Trichloroethane	63%	61%	2.1%	70 - 130	127%	80 - 120
Benzene	103%	93%	9.8%	70 - 130	104%	80 - 120
Trichloroethene	96%	88%	8.6%	70 - 130	101%	80 - 120
Toluene	110%	108%	2.4%	70 - 130	103%	80 - 120
Tetrachloroethene	101%	96%	4.9%	70 - 130	94%	80 - 120
Chlorobenzene	99%	93%	6.6%	70 - 130	94%	80 - 120
Ethylbenzene	107%	105%	1.6%	70 - 130	95%	80 - 120
1,2,4 Trimethylbenzene	124%	114%	8.2%	70 - 130	113%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	97%	91%		60 - 140	108%	60 - 140
Toluene-d_8	98%	114%		60 - 140	99%	60 - 140
4-Bromofluorobenzene	100%	100%		60 - 140	104%	60 - 140

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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Soil-Gas Chain-of-Custody Record

Client: Kennedy / Jenks Consultants, Inc.
Project Name: SOLANA
Project Address: Hawthorne & Via Valmonte, Torrance, CA
Email:
Phone:
Report To: Ryan Strandberg
Sampler: SEJ

Date: 1/6/2018
Client Project #: 1583018-01_1

Purge Number: □ 1P ☑ 3P □ 7P □ 10P
Shut-In Test: (Y) / N

Report Options: EDD ____ EDF* - 10% Surcharge____ *Global ID _____

LAB USE ONLY
Jones Project #: E-0821

Page 1 of 2
Sample Container: Glass Gas tight Syringe
If different than above, see Notes.

Turn Around Requested: □ Immediate Attention □ Rush 24 Hours □ Rush 48 Hours □ Rush 72 Hours □ Normal ☑ Mobile Lab

Tracer: ☑ n-pentane ☑ n-hexane ☑ n-heptane □ Helium □ 1,1-DFA □ _____

Reporting Limits Requested: ☑ Commercial □ Residential
Units: ug/L

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260					Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
SV-02C-2-15'	3	1790	1/6/18	10:57	11:12	E-0821-01	200	STEVE.2	118012	SG	X					13	1	
SV-02C-2-5'	3	1630	1/6/18	11:09	11:20	E-0821-02	50	STEVE.1	M100-112	SG	X					78	1	LOW FLOW
SV-02C-1-5'	3	1630	1/6/18	11:34	11:46	E-0821-03	100	STEVE.2	118012	SG	X					30	1	LOW FLOW
SV-02C-1-15'	3	1790	1/6/18	11:36	11:48	E-0821-04	100	STEVE.1	M100-112	SG	X					40	1	LOW FLOW
SV-02C-3-5'	3	1630	1/6/18	12:05	12:17	E-0821-05	200	STEVE.2	118012	SG	X					5	1	
SV-02C-3-15'	<1	200	1/6/18	12:23	12:33	E-0821-06	<10	STEVE.1	M100-112	SG	X					>100	1	EXTREME LOW FLOW; SAMPLE ONLY
SV-02C-6-5'	3	1630	1/6/18	13:27	13:38	E-0821-07	200	STEVE.2	118012	SG	X					<2	1	
SV-02C-6-15'	<1	200	1/6/18	13:40	13:53	E-0821-08	<10	STEVE.1	M100-112	SG	X					>100	1	EXTREME LOW FLOW; SAMPLE ONLY
SV-02C-25'	3	1960	1/6/18	14:08	14:19	E-0821-09	200	STEVE.2	118012	SG	X					4	1	
SV-02C-25' REP	3	1960	1/6/18	14:16	14:36	E-0821-10	200	STEVE.2	118012	SG	X					4	1	

Relinquished By (Signature)	Printed Name: Wes Edmiston	Received By (Signature)	Printed Name	10	Total Number of Containers
Company: KJ	Date: 01/06/18 Time:	Company: JKE	Date: 1/6/18 Time: 1810		
Relinquished By (Signature)	Printed Name	Received By Laboratory (Signature)	Printed Name		
Company	Date Time	Company	Date Time		

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

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Soil-Gas Chain-of-Custody Record

Client: Kennedy / Jenks Consultants, Inc.
Project Name: SOLANA
Project Address: Hawthorne & Via Valmonte, Torrance, CA
Email:
Phone:
Report To: Ryan Strandberg
Sampler: SEJ

Date: 1/6/2018
Client Project #: 1583018-01_1

Purge Number: □ 1P □ 3P □ 7P □ 10P
Shut-In Test: Y / N

Report Options: EDD ____ EDF* - 10% Surcharge____ *Global ID _____

Turn Around Requested:
□ Immediate Attention
□ Rush 24 Hours
□ Rush 48 Hours
□ Rush 72 Hours
□ Normal
□ Mobile Lab

Tracer:
□ n-pentane
□ n-hexane
□ n-heptane
□ Helium
□ 1,1-DFA
□ _____

Reporting Limits Requested: □ Commercial □ Residential
Units:

LAB USE ONLY
Jones Project # E-0821

Page 2 of 2

Sample Container: Glass Gas tight Syringe
If different than above, see Notes.

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260				Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
SV-02C-35'	3	2130	1/6/18	14:54	15:05	E-0821-11	200	STEVE.2	118012	SG	X				<2	1	
SV-02C-5-5'	3	1630	1/6/18	15:53	16:04	E-0821-12	200	STEVE.2	118012	SG	X				11	1	
SV-02C-5-15'	3	1790	1/6/18	16:02	16:12	E-0821-13	200	STEVE.2	118012	SG	X				24	1	
SV-02C-4-5'	3	1630	1/6/18	16:18	16:29	E-0821-14	200	STEVE.2	118012	SG	X				6	1	
SV-02C-4-15'	3	1790	1/6/18	16:33	16:46	E-0821-15	200	STEVE.2	118012	SG	X				10	1	
SV-02C-1-25'	3	1960	1/6/18	17:28	17:38	E-0821-16	200	STEVE.2	118012	SG	X				5	1	
SV-02C-1-35'	3	2130	1/6/18	17:35	17:46	E-0821-17	200	STEVE.1	M100-112	SG	X				<2	1	
SV-02C-2-25'	3	1960	1/6/18	17:48	18:00	E-0821-18	200	STEVE.2	118012	SG	X				5	1	

8 Total Number of Containers

Relinquished By (Signature) **Printed Name** **Received By (Signature)** **Printed Name**
Company **Date** **Time** **Company** **Date** **Time**

Relinquished By (Signature) **Printed Name** **Received By Laboratory (Signature)** **Printed Name**
Company **Date** **Time** **Company** **Date** **Time**

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.