

Cleanup Action Report

Ninth and Lenora Redevelopment
2101 9th Avenue
Seattle, Washington
Facility/Site #91413494
Cleanup Site ID: 1802
VCP Project No. NW2980

for

Ninth and Lenora LLC

March 25, 2016



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Plaza 600 Building
600 Stewart Street, Suite 1700
Seattle, Washington 98101
206.728.2674

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GeoEngineers File No. 21138-001-03

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Prepared for:

Ninth and Lenora LLC
c/o GID Urban Development Acquisitions, LLC
125 High Street
High Street Tower, 27th Floor
Boston, Massachusetts 02110

Attention: Jeffrey Lowenberg

Prepared by:

GeoEngineers, Inc.
Plaza 600 Building
600 Stewart Street, Suite 1700
Seattle, Washington 98101
206.728.2674



Fasih Khan
Environmental Engineer



David A. Cook, LG, CPG
Principal



David A. Cook

FK:DAC:leh

cc: Washington State Department of Ecology, Northwest Regional Office

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EXECUTIVE SUMMARY

This report summarizes a Cleanup Action successfully completed at the Ninth and Lenora development property to the maximum extent practicable in compliance with applicable Washington State Model Toxics Control Act (MTCA) requirements. The Ninth and Lenora development property (herein referred to as the “subject property”) is located in the Denny Triangle neighborhood and bounded by retail properties, 9th Avenue, Lenora Street, and a public alley in downtown Seattle, Washington. The subject property was enrolled in the Voluntary Cleanup Program (VCP) administered by Washington State Department of Ecology (Ecology) on June 8, 2015 (Facility/Site No. 91413494, Cleanup Site ID: 1802, and VCP Project No. NW2980). The subject property is shown relative to neighboring properties in the attached Figure 1.

Based on the results of a Remedial Investigation (RI), petroleum hydrocarbons (diesel-, and heavy oil-range) and polycyclic aromatic hydrocarbons (PAHs) were the primary contaminants of concern with localized areas of gasoline-range hydrocarbons, benzene (near decommissioned tanks in south portion) and/or lead (observed at only two locations) in fill soil, at the subject property.

Sources of contamination include historical boiler and furnace/chimney systems of the former subject property buildings, underground storage tanks (UST1, removed in 2002 and UST2 that was closed-in-place), and historic property uses such as a wood yard, printing facility, metal shops, and former vehicle servicing/washing/restoration facility, and undocumented fill that was imported to the subject property. A cleanup action was conducted concurrent with property development of a 42-story residential tower with six levels of underground parking between June 2015 and August 2015. Because of the sloping nature of the site from 9th Avenue down to the alley at the property, the construction excavation extended from starting elevations of about 87 feet (high side near 9th Avenue) to 69 feet (low side near the alley) to a bottom construction excavation of about Elevation 7 feet. Contaminated soil generally was shallow and contained within the upper 20 feet of fill soil at the subject property. The contaminated soil excavation and handling/disposal activities were completed in full accordance with GeoEngineers “9th and Lenora Construction Contingency Plan” dated December 12, 2014 which was submitted to Ecology in December 2014, prior to construction.

Following are the highlights of the Cleanup Action:

- All fill soil primarily contaminated with petroleum hydrocarbons, PAHs and to a lesser extent with gasoline-range hydrocarbons, benzene, xylenes, (associated with the decommissioned USTs) and/or lead (observed at two locations in fill soil) above applicable cleanup levels was excavated and removed during construction excavation from lot line to lot line of the subject property.
- A hydraulically operated steel elevator shaft and a concrete vault that housed a hydraulic hoist were discovered and subsequently removed during construction between June 2015 and August 2015. Confirmation samples indicate soil below the former shaft and vault locations was not impacted.
- A closed-in-place steel diesel tank (UST2) along with associated piping and petroleum-contaminated soil was removed from south portion of the subject property. Confirmation samples indicate that all petroleum-contaminated soil was successfully excavated from within the subject property boundaries. Residual MTCA exceeding petroleum-contaminated soil remains in place outside the west property boundary in a limited portion of an alley owned by City of Seattle.

- An unknown heating oil tank (UST3) was discovered and subsequently removed along with petroleum-contaminated soil during construction between June 2015 and August 2015. Confirmation samples indicate that petroleum contaminated soil was successfully excavated from the UST3 location.
- Based on the contaminated soil disposal summaries provided by Sellen Construction, 14,550 tons of contaminated soil was removed from the Ninth and Lenora development project and transported to Waste Management's (WM) transfer station in Seattle, Washington for rail haul and permitted disposal at the WM subtitle D landfill in Arlington, Oregon.
- Regional groundwater is deep (Elevation 14 feet) based on groundwater monitoring well (G-1) which was installed prior to construction activities on the property. Groundwater was not contaminated at the project site based on groundwater samples tested from an on-property monitoring well G-1 and from an off-property monitoring well MW-5. Perched water was encountered in localized, discontinuous locations during subsurface explorations, but was not encountered during mass construction excavation of the subject property. Based on the deep regional groundwater table, large vertical separation (greater than 40 feet) between groundwater and contaminated fill soil, and groundwater sample analytical data, the soil to groundwater pathway for contaminant migration is incomplete. The potential source of contaminated groundwater (contaminated soil) was successfully excavated and removed from the subject property and the groundwater is not contaminated at the Site.
- Chemical vapor conditions were not evaluated at the subject property because the selected remedy (remedial excavation) resulted in the complete removal of all source material that could result in vapor generation. Therefore, these conditions are protective of human health and the environment.

Based on chemical analytical testing, contaminated soil was completely removed from within the bounds of the subject property. However, based on field screening and soil sampling in rights-of-way south and west of the subject property, a limited volume of petroleum- and PAH-contaminated soil was documented beneath a small portion of the adjacent Lenora Street sidewalk and an alley (rights-of-way). GeoEngineers' Remedial Investigation/Feasibility Study (RI/FS) and Disproportionate Cost Analysis (DCA) dated March 24, 2016 provides additional detail regarding the contamination identified, defines the "Site" and outlines selected remedies (and their relative cost to implement). The residual contaminated soil cannot be removed because:

- **Lenora Street.** Contaminated soil is located approximately 24 feet deep (under Lenora Street) which requires significant and costly shoring for excavation, a multitude of utilities prevent excavation, and closure of Lenora Street will have an adverse and unacceptable impact on downtown traffic.
- **Alley.** Presence of infrastructure elements in the alley associated with the triangular parcel shoring wall and adjacent underground parking garage structural and foundation elements (concrete footings and walls) that also support the Lenora Street stability preclude excavation.

For both Lenora Street and the alley, these infrastructure elements cannot be demolished to access a limited volume of the contaminated soil as it will undermine the structural integrity of nearby improvements. This residual contaminated soil is capped in place (see Figures 5 and 6) and does not represent a threat to human health or the environment; and a property specific No Further Action determination is warranted based on the following rationale:

- Based on the isolated nature of the residual contamination (capped beneath the Lenora Street sidewalk and alley pavement), deep groundwater (55 to 75 feet deep, near Elevation 14 feet), presence

of low permeability glacially consolidated soil, and no petroleum impacts to groundwater (verified by groundwater monitoring well sampling results from the property and site vicinity prior to construction), the petroleum- and PAH-contaminated soil that remains beneath the Lenora Street sidewalk and the alley is not a threat to human health and/or the environment. GeoEngineers, Inc.'s (GeoEngineers) Remedial Investigation and Feasibility Study demonstrated that it was not practicable to excavate contaminated soil extending beyond the subject property boundaries into Lenora Street, and the alley as part of the Cleanup Action or redevelopment activities. If a "site-wide" NFA (rather than a "property-specific" NFA) is feasible, GeoEngineers proposes recordation of an Environmental Covenant in accordance with Washington Administrative Code (WAC) 173-340-440, with institutional controls that restricts future use and activities in the areas of Lenora Street and the alley (rights-of-way) where residual soil contamination remains capped as an added measure for human health and environment protection. This would require the agreement of the City of Seattle.

Based on the evaluation of Site conditions and remedial options described in GeoEngineers' Remedial Investigation and Feasibility Study, results of the cleanup action and protective/capped conditions at the property and the adjacent rights-of-way, it is GeoEngineers' opinion that a No Further Action determination for the subject property is warranted.

This Executive Summary should be used only in the context of the full report for which it is intended.

1.0 INTRODUCTION

This report summarizes a Cleanup Action successfully completed at the Ninth and Lenora development property to the maximum extent practicable in compliance with applicable Washington State Model Toxics Control Act (MTCA) requirements. The Ninth and Lenora development property (herein referred to as the “subject property”) is located in the Denny Triangle neighborhood and bounded by retail properties, 9th Avenue, Lenora Street, and a public alley in downtown Seattle, Washington. The subject property consists of two parcels (North Parcel [King County Parcel 0660000540] with a physical address 2118 Westlake Avenue and South Parcel [King County Parcel 0660000545] with a physical address of 2101 9th Avenue) encompassing approximately 0.49-acres. The subject property also includes a limited portion (0.025 acre) of an alley. The City of Seattle (City) owns the remaining portion (0.032 acre) of the adjacent alley. The alley ownership will transfer in 2017 to 2018 at the conclusion of the redevelopment project. The City also owns a triangular parcel located southwest of the subject property (across the alley) which is slated to become a public park. The subject property and vicinity is shown relative to surrounding physical features in the attached Figure 1.

2.0 PROPERTY DESCRIPTION AND REGULATORY STATUS

The North Parcel of the subject property was the former location of Enterprise, a car rental company. The South Parcel of the subject property was the former location of a two story office/warehouse building with the Woodside Braseth Gallery on the ground floor, office space upstairs, and a garage below. At the time of this report, the buildings had been demolished and the subject property was under redevelopment consisting of a 42-story residential tower with some retail space and six levels of subgrade parking. The subject property was enrolled in the Voluntary Cleanup Program (VCP) administered by Washington State Department of Ecology (Ecology) on June 8, 2015 (Facility/Site No. 91413494, Cleanup Site ID: 1802, and VCP Project No. NW2980).

GeoEngineers, Inc. (GeoEngineers) completed several studies at the subject property from 2002 to 2015, including a Remedial Investigation and Feasibility Study (RI/FS) dated March 24, 2015 in accordance with the Ecology VCP, the MTCA and associated implementing regulations (i.e., Chapter 173-340 Washington Administrative Code [WAC]). The RI/FS will be submitted to Ecology under separate cover along with this Cleanup Action Report (CAR). For a description of subject property history and a summary of results from previous investigations at the subject property, refer to the RI/FS. The RI/FS report utilizes and reports on the soil chemical analytical information that was obtained during remedial investigations completed prior to subject property redevelopment, utility-related excavations outside the mass excavation limits, and during construction excavation. The RI/FS recommended removal and permitted off-site disposal of MTCA contaminated soil within the bounds of the property and engineering and institutional controls for a limited volume of remaining contaminated soil beneath the Lenora Street sidewalk and alley. All work conducted at the Site (subject property, Lenora Street, and the alley) has been performed in accordance with the requirements of MTCA and its implementing regulations found in WAC 173-340 (collectively MTCA).

3.0 PURPOSE AND SCOPE

The objective of this document is to summarize the Independent MTCA Cleanup Action of fill soil primarily contaminated with petroleum hydrocarbons (diesel- and heavy oil-range) and polycyclic aromatic

hydrocarbons (PAHs), and to a lesser extent with benzene, toluene, xylenes, (near decommissioned tanks in south portion) and/or lead (observed at only two locations in fill soil) at the subject property. The Cleanup Action included the removal of a hydraulically controlled elevator shaft, a concrete vault housing a hydraulic hoist, two underground storage tanks (USTs) containing diesel and heating oil, respectively; removal of petroleum contaminated soil associated with the USTs; as well as excavation and removal of petroleum and PAHs-contaminated/impacted fill soil from within the mass excavation limits. Successful contaminated soil removal was documented through field observations by GeoEngineers and confirmation soil sampling and testing. GeoEngineers services included the following activities:

3.1. Pre-Construction/Cleanup Activities: CCP and Well Decommissioning

- GeoEngineers prepared an environmental Construction Contingency Plan (CCP) dated December 12, 2014 to guide the contractor in handling and disposing of contaminated soil discovered at the Site in accordance with applicable regulations. The CCP included confirmation soil sampling and testing measures. Additionally, the CCP included communication protocol if USTs and/or undocumented potentially contaminated soil was discovered by the earthwork contractor during construction excavation. A procedure was established where GeoEngineers was notified, excavation halted in the area of suspect soil, then GeoEngineers visited the site to conduct field screening, soil sampling and to oversee appropriate handling of contaminated soil (as outlined in Section 3.2). For example, this protocol was enacted when a fill port and associated fuel supply line and heating oil tank was discovered in north portion of the subject property during shoring installation. The heating oil tank was not known to exist until construction excavation started. The CCP was submitted to Ecology in order to satisfy notification requirement of the intent to remove additional contaminated soil in accordance with the requirement specified by Ecology in a No Further Action (NFA) opinion letter dated January 28, 2003 for the site. The 2003 NFA letter related to the removal of one UST and decommissioning in-place of a second UST. Background regarding the 2003 NFA is presented in Section 4.1 of this report.
- Coordinated decommissioning of two groundwater monitoring wells (G-1 and MW-01). Wells were decommissioned by a Washington state licensed driller, prior to mass excavation. The approximate location of the former monitoring wells is shown in attached Figure 1. Well decommissioning documents are presented in Appendix A.

3.2. During Construction/Cleanup Activities: Excavation Monitoring and Confirmation Soil Sampling

- GeoEngineers monitored off-property utility excavations, oversaw on-property remedial excavations, conducted soil field screening, and assisted the earthwork contractor(s) in excavation and segregation of contaminated soils.
- GeoEngineers obtained soil samples from the limits of the remedial excavations and field screened soil from the excavation for evidence of petroleum hydrocarbons using visual and water sheen screening methods.
- GeoEngineers submitted selected soil samples obtained from the limits of the remedial excavations to an Ecology-accredited laboratory, OnSite Environmental Laboratory (OnSite) in Redmond, Washington, for chemical analytical testing.

3.3. Post-Cleanup Activities: Reporting and Regulatory Support

- GeoEngineers evaluated field and laboratory data relative to MTCA Method A cleanup levels.
- Prepared this Cleanup Action Report summarizing the results of remedial excavations and confirmation soil sampling and testing.
- Continue to provide regulatory support with the objective of achieving a property-specific NFA determination from Ecology.

4.0 ENVIRONMENTAL BACKGROUND AND SITE DEFINITION

GeoEngineers completed a Phase I Environmental Site Assessment (ESA) report for the subject property in September 2002, October 2007, and a Phase I ESA update in August 2013. The following is a summary of our research and findings from the 2007 and 2013 Phase I ESAs and a brief summary of key environmental findings identified at the subject property from 2002 to 2015.

4.1. 2002 Tank Removal (UST1) and In-Place-Decommissioning (UST2)

Based on our review of a 2002 Environmental Tank Services (ETS) report during the 2007 Phase I ESA, two 1,000-gallon steel USTs were located in the southwest portion of the former two-story office/retail building (South Parcel). The two USTs were stacked on top of one another. The first/upper UST (UST1) and associated contaminated soil was successfully removed in 2002 by ETS. The second/lower UST (UST2) was not removed in 2002 because of structural obstructions. UST2 was decommissioned-in-place by filling the tank with controlled density fill (CDF). According to the ETS report, diesel- and heavy oil-range hydrocarbons, naphthalenes, benzene, and xylenes were detected at concentrations exceeding respective MTCA Method A Cleanup Levels from a soil sample obtained 3 feet below the top of UST2. Soil characterized by this sample was not over-excavated in 2002 because of the presence of a structural column, hoist pad, and building foundations. Ecology issued a NFA determination dated January 28, 2003 for South Parcel 0660000545 based on the 2002 tank removal. The NFA indicated that if future development occurs at the Site, Ecology must be notified and a plan prepared to test and manage the soil in accordance with MTCA cleanup requirements and best management practices. GeoEngineers submitted an environmental CCP to Ecology in January 2015 to satisfy the conditions of the 2003 NFA.

The approximate locations of UST1 and UST2 are shown in attached Figure 1. A copy of the 2003 NFA is presented in Appendix D.

4.2. Remedial Investigation Summary

GeoEngineers completed several geotechnical and environmental explorations at the subject property and immediate vicinity to evaluate subsurface conditions. Twenty-four soil borings were completed to depths ranging from approximately 7 to 86.5 feet to evaluate soil and water conditions. Two monitoring wells (MW-01 and G-1) were completed to approximate depths of 18 and 86.5 feet to evaluate groundwater quality beneath the subject property between 2002 and 2014. GeoEngineers utilized data from an existing off-property monitoring well (MW-5) located on the east sidewalk of Lenora Street. MW-5 was completed by GeoEngineers in 1993 to an approximate depth of 60 feet for a different project located opposite the subject property, across Lenora Street. All depths indicated in this paragraph are measured from the respective local ground surfaces at the time these explorations were completed. Based on GeoEngineers' explorations, soils encountered at the site consist of relatively shallow fill overlying recent deposits and

competent glacially consolidated soils. Fill generally consists of loose to medium dense silty sand with variable gravel and cobble content and occasional brick, charcoal or wood debris. The thickness of fill encountered in the explorations completed at the site ranged from approximately 6 to 15 feet. The recent deposits typically consist of soft to hard silt and clay with occasional sand interbeds and variable gravel content or medium dense to dense sand with variable silt and gravel content. The glacially consolidated soils encountered in the explorations below recent deposits were typically till-like deposits, which consist of very dense silty sand with gravel and variable cobble and boulder content with isolated layers of hard silt and clay. Following is a brief summary of the remedial investigation results as represented in GeoEngineers RI/FS report.

- **Soil.** Fill soil primarily contaminated with petroleum hydrocarbons (diesel-, and heavy oil-range) and PAHs; and to a lesser extent with gasoline-range hydrocarbons, benzene, xylenes, (associated with the decommissioned USTs) and/or lead (observed at two locations in fill soil) was identified at concentrations exceeding MTCA Method A Cleanup Levels in areas where historic sources of contamination and/or imported fill exist at the subject property. Contaminated soil also was identified in a limited portion of the adjacent rights-of-way (Lenora Street and the alley). Based on the findings of the RI, the nature and extent of contaminated soil at the Site was fully delineated and addressed in this RI/FS and during the Cleanup Action. The cleanup actions summarized in this report document the removal of all contaminated soil exceeding MTCA cleanup levels within the bounds of the subject property.
- **Perched Water.** Perched water was intermittently encountered at an approximate Elevation of 63 feet (ground surface slopes from about Elevation 90 to 70 feet) in remedial investigation explorations. Although petroleum hydrocarbons and metals (arsenic, chromium, lead, and/or mercury) were detected at concentrations greater than MTCA Method A cleanup levels in perched water, GeoEngineers demonstrated in the RI/FS that these results are not representative of groundwater quality at the Site, because these discrete, one-time samples were obtained directly from the boreholes and were considered reconnaissance samples pending sampling of appropriately constructed groundwater monitoring wells (see next bullet). Furthermore, perched water was not encountered within the mass excavation limits during the cleanup action.
- **Groundwater.** Groundwater was observed at Elevations between 16 and 14 feet in monitoring well G-1 (measured from the local ground surface at G-1, approximate Elevation 69 feet [NAVD88]), at the subject property. Groundwater samples obtained and tested in April 2014 and July 2015 from G-1, screened within the regional aquifer showed that arsenic, chromium, and lead were present at concentrations less than MTCA Method A cleanup levels and petroleum hydrocarbons were not detected. Additionally, a September 1993 groundwater sample from an existing monitoring well MW-5 located across Lenora Street indicated no petroleum detections.
- **Soil Vapor.** Soil vapor conditions were not evaluated at the subject property because the planned construction excavation depth of approximately 80 feet below ground surface (bgs; approximate Elevation 7 feet) results in the removal of all source material that could result in vapor generation. Therefore, soil vapor is not a cause of concern at the subject property.

4.2.1. Construction Phase Characterization

There were a few construction-related activities that occurred in advance of the mass construction excavation which gave GeoEngineers an opportunity to obtain additional characterization data, such as:

- Gary Merlino Construction (Gary Merlino), the utility excavation and installation contractor for the project, performed excavation activities for installing a deep sewer in 9th Avenue located east of the subject property. This gave GeoEngineers the opportunity to obtain soil samples east of the property boundary to evaluate whether soil exceeding MTCA cleanup levels for benzene in boring B-1 was a localized condition off-property, or extended onto the subject property. The results of this supplemental characterization indicated that benzene was not present on the subject property and was localized within a limited area in 9th Avenue. Based on the soil sampling and testing results from the utility excavation in 9th Avenue and southeast portion of the subject property, not only was contaminated soil removed from the utility excavation within 9th Avenue, the chemical analytical data and observations made by GeoEngineers demonstrated that the gasoline and benzene contamination identified in 9th Avenue was not sourced from, nor migrated onto, the subject property. The gasoline and benzene that was identified during the earlier characterizations appears to either be the result of a localized spill of hydrocarbons within 9th Avenue or originated from an unknown off-property/upgradient source across 9th Avenue.

Please refer to GeoEngineers report titled “Remedial Investigation/Feasibility Study, Ninth and Lenora Redevelopment, 2101 9th Avenue, Seattle, Washington, Facility #91413494, Cleanup Site ID #1802, VCP Project #NW2980” dated March 25, 2016 for further details.

4.3. Site Definition

The “Site” as defined by Ecology’s MTCA (Chapter 173-340) means “any building, structure, installation, equipment, pipe or pipeline (including any pipe into a sewer or publicly owned treatment works), well, pit, pond, lagoon, impoundment, ditch, landfill, storage container, motor vehicle, rolling stock, vessel, or aircraft; or any site or area where a hazardous substance, other than a consumer product in consumer use, has been deposited, stored, disposed of, or placed, or otherwise come to be located.”

For this project, the “Site” is those areas where hazardous substances have come to be located above applicable cleanup levels as a result of a release of hazardous substances related to historic site uses. Based on the soil data obtained as part of the RI and additional information that was obtained during construction excavation, the Site extends beyond portions of the subject property boundaries into limited portions of the adjacent Lenora Street and adjacent alley. However, it was not practicable to remove soil in the rights-of-way due to the presence of shoring walls, local concrete infrastructure/foundations and presence of very heavily trafficked downtown city streets and/or alleys with utilities as described in the FS portion of the RI/FS report. The mass excavation which occurred from July 2015 through September 2015 extended from lot-line to lot-line to an approximate depth of 80 feet below the 9th Avenue right-of-way surface grade (down to Elevation 7 feet, NAVD88). All contaminated soil within the subject property boundaries identified over the course of the RI and construction activities was removed as part of the construction excavation.

5.0 CONTAMINANTS OF CONCERN AND CLEANUP LEVELS

Based on the chemical analytical results, the contaminants of concern relative to affected media at the Site are as follows:

- **Soil.** Petroleum hydrocarbons (gasoline-, diesel-, and heavy oil-range) and PAHs are the primary contaminants of concern. Because benzene, toluene, xylenes, and lead were detected at

concentrations exceeding MTCA Method A Cleanup levels only in one or two soil samples from localized areas at the site, these analytes are considered secondary contaminants of concern (that were remediated during the removal of the primary contaminants [petroleum hydrocarbons and PAHs]).

- **Groundwater.** Petroleum hydrocarbons (gasoline-, diesel-, and heavy oil-range) and metals (arsenic, total chromium, lead, and mercury).

Confirmation samples were submitted for chemical analyses of one or more of the above mentioned primary and/or secondary contaminants of concern. The soil and groundwater chemical analytical results were evaluated relative to MTCA Method A Cleanup Levels for soil and groundwater applicable to Unrestricted Land Use. The respective cleanup levels are summarized in Tables 1 through 5.

6.0 TERRESTRIAL ECOLOGICAL EVALUATION

GeoEngineers completed a Terrestrial Ecological Evaluation (TEE) for the site in accordance with MTCA. The site qualifies for an exclusion from the TEE because there is “less than 1.5 acres of contiguous undeveloped land on the site or within 500 feet of the site” (WAC 173-340-7491(c)(i)). No further evaluation relative to the TEE is necessary. Based on this exclusion, MTCA Method A cleanup levels were used for the remedial excavations completed at the site. A copy of the TEE Exclusion Form is presented in Appendix F.

7.0 REVIEW OF FEASIBLE CLEANUP ALTERNATIVES AND SELECTION OF PREFERRED REMEDY

The objectives of the cleanup action at the subject property were to: 1) remove the contamination source, 2) prevent direct human contact with soil containing contaminant concentrations greater than the MTCA Method A cleanup levels for unrestricted land use, and 3) obtain a written determination issued by Ecology stating that no further remedial action is necessary at the subject property (a property-specific NFA Determination).

Deep regional groundwater was encountered in borings at depths greater than 75 feet bgs, at the subject property. The vertical separation of the contaminated soil and the groundwater table is greater than 40 feet at the Site. Additionally, glacially competent, lower permeability soil exists below the contaminated fill at the Site. Groundwater samples obtained and tested in April 2014 and July 2015 from G-1, screened within the regional aquifer showed that arsenic, chromium, and lead were present at concentrations less than MTCA Method A cleanup levels and petroleum hydrocarbons were not detected. Additionally, a September 1993 groundwater sample from an existing monitoring well MW-5 located across Lenora Street indicated no petroleum impacts. The limited volume of petroleum (gasoline- and heavy oil-range hydrocarbons) and PAHs-contaminated fill soil remaining in two small areas; the first extending beyond the south subject property boundary beneath the Lenora Street sidewalk and the second extending beyond the west subject property beneath the alley cannot be removed because:

- **Lenora Street.** Contaminated soil is located approximately 24 feet deep (under Lenora Street) which requires significant and costly shoring for excavation, a multitude of utilities prevent excavation, and closure of Lenora Street will have an adverse and unacceptable impact on downtown traffic.
- **Alley.** Presence of infrastructure elements in the alley associated with the triangular parcel shoring wall and adjacent underground parking garage structural and foundation elements (concrete footings and walls) that also support the Lenora Street stability preclude excavation.

For both Lenora Street and the alley, these infrastructure elements cannot be demolished to access a limited volume of the contaminated soil as it will undermine the structural integrity of nearby improvements. For these reasons, residual contaminated soil is not a source of contamination to deep regional groundwater, at the Site. Other pathways such as groundwater to surface water, and soil vapor intrusion to indoor air are not considered complete exposure pathways for the subject property based on site conditions, absence of contaminant impacts to groundwater, contaminant type, the remedial action completed (soil excavation) and current and future land use.

An evaluation of feasible cleanup alternatives which included a disproportionate cost analysis (DCA) was performed and is described in our RI/FS for the subject property. Our DCA analysis shows that the cost to conduct additional excavation (or any in-situ remediation) into the Lenora Street and Alley (rights-of-ways) would result in disproportionate cost for the environmental benefit. Based on the results of the RI/FS, excavation and off-site disposal of contaminated soil within the mass excavation limits and capping of residual contaminated soil by the existing rights-of-way pavement coupled with the development of an Environmental Covenant (subject to City of Seattle agreement) in accordance with WAC 173-340-440, which implements institutional controls that restrict future use and activities in the relevant areas of Lenora Street subsurface and public alley where residual soil contamination remains capped was selected as the cleanup remedy which is in compliance with applicable MTCA requirements for the following reasons:

- The selected alternative meets all of the “minimum requirements for cleanup actions” (WAC 173-340-360(2)). Specifically, the alternative: 1) could be completed within a relatively short period of time; 2) meets threshold requirements described by MTCA (e.g., protects human health and the environment, complies with the cleanup standards, complies with state and federal laws and provides for compliance monitoring); 3) is expected to be more effective than other available methods in achieving concentrations that are protective of human health and the environment within a reasonable restoration timeframe; 4) is permanent to the maximum extent practicable; and 5) considers public concerns.
- Excavation and transport off site of contaminated soil for permanent treatment or disposal was considered to be the most permanent and cost-effective cleanup option for the subject property.
- Excavation of and transport off site of contaminated soil for permitted disposal was necessary for property redevelopment.

8.0 CLEANUP ACTION

Sellen Construction (Sellen) was the general construction contractor of the project. CTI Contractors (CTI) was the earthwork contractor subcontracted to Sellen. Gary Merlino Construction (Gary Merlino) was the utility excavation and installation contractor subcontracted to Sellen, and Donald B. Murphy Contractors, Inc. (DBM) was the shoring installation contractor subcontracted to Sellen. Based on the results of our RI/FS for the subject property, the cleanup action consisted of remedial excavation of contaminated fill soil, removal of the closed-in-place tank (UST2) in south portion, and removal of another tank (UST3) that was discovered in north portion during construction activities, excavation and removal of contaminated soil associated with historic releases from the tanks, and confirmation soil/groundwater sampling and testing from final limits of remedial excavations. The contaminated soil excavation and handling/disposal activities were completed in accordance with GeoEngineers “9th and Lenora Construction Contingency Plan” dated December 12, 2014 which was submitted to Ecology in December 2014, prior to construction. The product/soil/groundwater samples were submitted to OnSite in Redmond, Washington, an Ecology-accredited chemical analytical laboratory for chemical analysis of one or more of the following: diesel- and

heavy oil-range hydrocarbons by Ecology Method NWTPH-Dx, PAHs by United States Environmental Protection Agency (EPA) Method 8270D and/or 8270D/SIM, BETX (benzene, toluene, ethylbenzene, and xylenes) by EPA Method 8021B, and gasoline-range hydrocarbons by Ecology Method NWTPH-Gx.

Field Procedures are described in Appendix A. A copy of the laboratory reports for the product/soil/groundwater samples analyzed during the Cleanup Action is presented in Appendix C.

The remainder of this report provides a summary of the various remedial excavations (Shoring Installation/Duct Bank; Mass Excavation of Fill Soil; Elevator Shaft/Hoist; and UST Removals) and confirmation soil/groundwater testing that was completed as part of the construction project.

8.1. Shoring Installation and Duct Bank Excavation

Soil cuttings generated from the deep shoring wall installed at the north, south, east, and west property boundaries was temporarily stockpiled on plastic sheets (Visqueen). Soil excavated from the Lenora Street sidewalk for a power ductbank was combined with the shoring wall soil cuttings. Based on field screening results of the stockpiled soil cuttings (slight to moderate to heavy sheen, mild petroleum odor, and less than 1 parts per million [ppm] headspace vapor reading) and visual observations (black stained soil with wood and charcoal chips, and brick and concrete debris), soil was considered contaminated and/or impacted. The power ductbank excavation measured approximately 25 feet long by 4 feet wide with a maximum depth of 20 feet below local ground surface (approximate Elevation 66 feet, NAVD88).

Eight 3-point composite soil samples (SS-1 through SS-8) were obtained from the stockpiles during the course of shoring installation and a utility duct bank excavation. All samples were submitted for chemical analysis of diesel- and heavy oil-range hydrocarbons and carcinogenic PAHs (cPAHs). According to the chemical analytical data, diesel- and heavy oil-range hydrocarbons and cPAHs were detected at concentrations that were either greater than and/or less than respective MTCA Method A cleanup levels. Sample SS-5 was additionally analyzed for gasoline-range hydrocarbons and BETX as this soil was generated during shoring installation and ductbank excavation (west sidewalk of Lenora Street) at the southeast portion of the Site where these contaminants were potentially present due to the presence of former USTs. Gasoline-range hydrocarbons and BETX were not detected. CTI loaded the soil into truck and trailer combinations (T&Ts) and transported it to Waste Management's Seattle transfer station for permitted disposal.

Chemical analytical results are presented in Table 1. A copy of the laboratory reports is presented in Appendix C.

8.2. Mass Excavation of Fill Soil

Based on the RI data, our observations during shoring installation, and chemical analytical results of soil stockpile samples, the subject property was classified into three soil management zones where contaminated and/or impacted fill soil was identified extending from beneath the former 2-story building (approximate Elevation 69 feet, NAVD88) to approximate depths ranging from 6 to 18 feet below local subject property ground surface (approximate Elevations ranging from 63- to 51 feet, NAVD88). The three soil management zones include:

- Zone 1 Impacted fill soil defined as soil with concentrations of chemicals of concern less than MTCA cleanup levels, generally located on the east portion of the property;

- Zone 2 Contaminated fill soil defined as soil with concentrations of chemicals of concern greater than MTCA cleanup levels, generally located on the west portion of the property; and
- Zone 3 Contaminated fill in the area of the former USTs in the south portion of the subject property. The zones are shown on the attached Figure 1.

CTI excavated all of the impacted and contaminated fill soil from within the mass excavation limits from July 2015 through August 2015. Excavated fill soil was either temporarily stockpiled on site over plastic sheets (Visqueen) or directly loaded into T&Ts and transported to Waste Management's Seattle transfer station for permitted disposal. Field screening results of underlying native soil yielded no sheen, no odor, and less than 1 ppm headspace vapor readings. GeoEngineers obtained 11 confirmation soil samples at approximate depths ranging between 7 to 15 feet below local subject property ground surface (approximate Elevations ranging between 62 and 54 feet, NAVD88).

According to the chemical analytical data, diesel- and heavy oil-range hydrocarbons and cPAHs were not detected in any of the samples except two. Heavy oil-range hydrocarbons were detected at a low concentration of 61 milligrams per kilogram (mg/kg) and 66 mg/kg in samples MASSEX-4-7.0 (approximate Elevation 62, NAVD88) and MASSEX-10-8.0 (approximate Elevation 61 feet, NAVD88), respectively. Soil represented by these samples was over-excavated and transported to Waste Management's Seattle transfer station for permitted disposal. GeoEngineers obtained samples MASSEX-4-9.0 (approximate Elevation 60 feet, NAVD88) and MASSEX-10-9.0 (approximate Elevation 60 feet, NAVD88) from the over-excavated area. Heavy oil-range hydrocarbons were not detected in the two samples thus demonstrating that all impacted soil (exceeding and less than MTCA cleanup levels) was removed from the property.

The mass excavation confirmation samples were not tested for lead because:

1. Lead was only detected in fill soil in two of 14 remedial investigation samples at concentrations exceeding MTCA Method A cleanup levels,
2. Lead (which was located at only two discrete locations) was considered a secondary contaminant of concern because its concentrations were captured within the more extensive petroleum and PAH contamination that was removed, and
3. The entire fill soil body was excavated from lot-line to lot-line of the subject property and no other Site contaminants were detected in any of the mass excavation confirmation soil samples.

Field screening and chemical analytical results of the mass excavation confirmation samples are presented in Table 1. The approximate locations of mass excavation confirmation samples are shown in Figure 2. A copy of the laboratory results is presented in Appendix C.

8.3. Elevator Shaft and Hydraulic Hoist

A steel hydraulically operated elevator shaft and a concrete vault that housed a hydraulic hoist were discovered in August 2015 during construction activities in east portion of the subject property. The shaft and the concrete vault were partially filled with a petroleum product. According to the chemical results of product samples obtained from the elevator shaft (ELVTR-Product) and (HOIST-Product) and analyzed by Ecology Method NWTPH-HCID, diesel- and heavy oil-range hydrocarbons were detected. Gasoline range hydrocarbons were not detected. Filco, a licensed tank decommissioner, vacuumed hydraulic oil from the shaft and vault on August 14, 2015. Based on our field observations, the shaft and the vault did not leak.

Confirmation soil samples obtained from the locations of shaft (ELEVTR-1-20.0) at an approximate depth of 20 feet below local subject property ground surface (approximate Elevation 55 feet, NAVD88) and the hoist (HOIST-EX-7.0) at an approximate depth of 7 feet below local subject property ground surface (approximate Elevation 62 feet, NAVD88) indicated no detections of diesel- and heavy oil-range hydrocarbons.

The shaft and hoist remedial excavations along with confirmation soil samples are generally shown in attached Figure 3. Chemical analytical results are presented in Table 2.

8.4. Underground Storage Tank Removal and Remedial Excavation

8.4.1. Diesel Tank (UST2)

CTI removed overburden soil to expose the top surface of tank UST2 on August 14, 2015. Field screening results of overburden soil yielded moderate sheen, mild petroleum odor and less than 1 ppm headspace vapor reading. These observations were anticipated because this was the location where former tank UST1 was located and removed in 2002. During the 2002 tank removal, UST2 was found beneath UST1, but UST2 could not be removed due to structural elements related to the former building and was decommissioned by filling it with control density fill (CDF). When the 1,750-gallon steel diesel tank (UST2) was exposed during the 2015 construction project, approximately 1.5-feet of free product was observed on top of the CDF within the tank. According to the chemical results of a product sample (SW-UST-Product) that we obtained from UST2 during tank removal, diesel- and heavy oil-range hydrocarbons were detected, while gasoline-range hydrocarbons were not detected. On August 14, 2015, Filco, a licensed UST removal contractor, vacuumed the product from the tank and triple rinsed the tank. A Marine Chemist with Sound Testing, Inc. inerted UST2 and the tank was approved for removal by a Fire Marshall with City of Seattle Fire Department. CTI removed UST2 with a trackhoe and transported it off site for disposal. GeoEngineers observed the physical condition of UST2 after it was removed. Two small holes were observed on the base of the tank. The UST2 removal documents are presented in Appendix D.

Once the tank was removed GeoEngineers completed soil sampling field screening and submittal of soil samples for chemical analytical testing from the tank pit. Three characterization soil samples obtained from the base (UST2-B-24.0), south (UST-S-22.0) and west (UST-W-22.0) sidewalls of the tank pit at approximate depths of 24, 22, and 22 feet below the Lenora Street ground surface (approximate Elevations, 63, 65, and 65 feet, NAVD88) were chemically analyzed for diesel and heavy oil-range hydrocarbons and PAHs. Diesel- and heavy oil-range hydrocarbons, and PAHs were detected at concentrations exceeding MTCA Method A Cleanup levels in the three characterization samples.

GeoEngineers then observed CTI, who excavated MTCA contaminated soil from the UST pit area. GeoEngineers obtained 18 confirmation soil samples (two base samples and 16 sidewall samples) at depths ranging from 22 to 36 feet below the Lenora Street ground surface (approximate Elevations from 65 to 51 feet, NAVD88) from the UST2 remedial excavation. Confirmation samples were chemically analyzed for petroleum hydrocarbons (gasoline-, diesel-, and heavy oil-range) and/or BETX and/or PAHs. Gasoline-range hydrocarbons and BETX were added to the analysis to verify that no residual impacts remained within the subject property boundary from former UST1. Petroleum hydrocarbons, BETX, and PAHs either were not detected or were detected at concentrations less than the MTCA Method A Cleanup Level in each of the confirmation samples except one. Heavy oil-range hydrocarbons, naphthalenes, and cPAHs were detected at concentrations exceeding MTCA Method A Cleanup levels in one sample (UST2EX-W1-24.0) obtained at an approximate depth of 24 feet below the Lenora Street ground surface

(approximate Elevation 63 feet, NAVD88) from the west shoring wall. This sample represents localized residual petroleum-contaminated soil that remains outside the west subject property boundary in the portion of alley owned by the City of Seattle. As demonstrated in the RI/FS and earlier sections of this report, excavation of contaminated soil located outside the subject property limits was not feasible to be removed from a cost-to-benefit standpoint due to disproportionate cost for the returned environmental benefit.

Final limits of the UST2 remedial excavation measured approximately 50 feet long (north-south) by 40 feet wide (east-west) with a maximum depth of 36 feet below the Lenora Street ground surface (approximate Elevation 51 feet, NAVD88). Based on field screening and chemical testing, all petroleum-contaminated soil was successfully excavated from the UST2 location and transported to Waste Management's transfer station in Seattle, Washington for permitted disposal.

The field screening and chemical analytical results of the characterization and remedial excavation confirmation samples are summarized in Table 3. The approximate final limits of the UST2 remedial excavation along with confirmation samples are shown in Figure 3. The approximate extent of residual MTCA exceeding soil in Lenora Street and alley is generally shown in Figure 5. A geologic and chemical analytical profile of the subsurface conditions in the south portion of the Site is graphically shown in attached Cross Section A-A', Figure 6. A copy of the laboratory reports is presented in Appendix C.

8.4.2. Heating Oil Tank (UST3)

An undocumented 1,750 gallon steel heating oil tank was discovered at the 2118 Westlake Avenue property (North Parcel 0660000540) in June 2015 during construction activities. The tank (UST3) likely was associated with the former subject property facilities that were present in that area through the late 1950s. According to the chemical analytical results of a product sample, diesel fuel #2 (heating oil) was identified as the petroleum product in the tank. Gasoline and heavy oil were not detected in the sample. Please refer our report titled "Northeast Heating Oil UST Removal and Site Assessment Report" dated July 13, 2015 which has already been submitted to Ecology for further details.

Four soil samples were obtained from the tank pit and/or fuel line area. One of these samples UST3-B-7.0 obtained from the base of UST3 pit at an approximate depth of 7 feet below the local subject property ground surface (approximate Elevation 61 feet, NAVD88) had heating oil-range concentrations that exceeded MTCA cleanup levels. CTI excavated heating oil-contaminated soil represented by the sample (UST3-B-7.0) in August 2015 during the mass construction excavation. GeoEngineers obtained five confirmation samples (one from the base and one each from the four sidewalls) from the final limits of the remedial excavation. Sidewall samples were obtained at an approximate depth of 10 feet below local subject property ground surface (approximate Elevation 57 feet, NAVD88) and a base sample was obtained at an approximate depth of 15 feet below local subject property ground surface (approximate Elevation 52 feet, NAVD88). Diesel- and heavy oil-range hydrocarbons were not detected in any of the confirmation samples. Final limits of the UST3 remedial excavation measured approximately 20 feet long (north-south) by 10 feet wide (east-west) with an approximate depth of 15 feet below local subject property ground surface (approximate Elevation 52 feet, NAVD88). Based on field screening and chemical testing, all petroleum-contaminated soil was successfully excavated from the UST3 location and transported to Waste Management's transfer station in Seattle, Washington for permitted disposal.

The field screening and chemical analytical results of the characterization and remedial excavation confirmation samples are summarized in Table 4. The approximate final limits of the UST3 remedial excavation along with confirmation samples are shown in Figure 4. A copy of the laboratory reports is presented in Appendix C.

8.5. Groundwater

Groundwater samples were collected from deep monitoring well G-1 (completed to an approximate depth of 86.5 feet below local subject property ground surface and screened within the regional aquifer) in December 2013, April 2014, and July 2015. Groundwater in G-1 was encountered at approximate depths of 53 to 55 feet below local subject property ground surface (approximate Elevations 16 to 14 feet, NAVD88). Groundwater samples tested from G-1 showed that arsenic, chromium, and lead were present at concentrations less than MTCA Method A cleanup levels and petroleum hydrocarbons (gasoline-, diesel-, and heavy oil-range hydrocarbons), and BETX were not detected.

GeoEngineers utilized data from an existing off-property monitoring well (MW-5) located on the east sidewalk of Lenora Street. MW-5 was completed by GeoEngineers in 1993 to an approximate depth of 58 feet below Lenora Street ground surface and screened within the regional aquifer. Groundwater in MW-5 was observed at an approximate depth of 48 feet below the Lenora Street ground surface (approximate Elevation 28 feet, NAVD88). Although MW-5 was completed for a different project, this well is currently located across Lenora Street in proximity of the Site and may be utilized to represent groundwater conditions beneath Lenora Street, in our opinion. Chemical analytical results of a groundwater sample obtained and tested from MW-5 in 1993 indicated no petroleum impacts. Therefore, based on groundwater sample results from G-1 and MW-5, the soil to groundwater pathway was incomplete and groundwater was not a media of concern for this Cleanup Action. Additionally, limited to no perched water, was observed during excavation and there remains a significant separation between remaining residual inaccessible petroleum contaminated soil in the right of way and the groundwater table.

Groundwater chemical data is summarized in attached Table 5. The approximate monitoring well locations and a graphical summary of groundwater analytical data are shown in Figure 7. A copy of the laboratory report for G-1 samples is presented in Appendix C.

9.0 CONTAMINATED SOIL DISPOSAL

According to weight summaries provided by Sellen, approximately 14,550 tons of contaminated/impacted soil was excavated from the subject property and transported to Waste Management's transfer station in Seattle, Washington for rail hauling and permitted disposal at their Subtitle D landfill located in Arlington, Oregon. Also, approximately 1,500 gallons of UST rinse water (wastewater) was removed from the site during the tank removal activities and transported to Marine Vacuum Services facility in Seattle, Washington for permitted disposal.

A copy of the contaminated soil tonnage summaries and wastewater disposal receipts provided by Sellen are included in Appendix E.

10.0 CONCLUSIONS

10.1. Soil

Soil primarily contaminated with diesel-, and heavy oil-range hydrocarbons and PAHs; and to a lesser extent with gasoline-range hydrocarbons, benzene, xylenes, (associated with the decommissioned USTs) and/or lead (observed at two locations in fill soil) at concentrations greater than MTCA Method A cleanup levels was encountered and successfully removed from the Ninth and Lenora project property.

Confirmation soil sampling demonstrated that applicable cleanup standards were met vertically and laterally from the remedial excavation area within subject property boundaries. Additionally, two underground storage tanks, a hydraulically operated elevator shaft, and a hydraulic hoist, were encountered and removed from the subject property between June 2015 and August 2015 in accordance with Ecology's Guidance for Site Checks and Site Assessments for Underground Storage Tanks" dated February 1991. Based on the contaminated soil disposal summaries provided by Sellen, the total quantity of contaminated/impacted soil removed from Ninth and Lenora development project area for permitted disposal was 14,550 tons. Based on chemical analytical testing, contaminated soil was completely removed from within the bounds of the subject property. The remedial actions completed at the property are protective of human health and the environment and as a result, a property specific No Further Action determination is warranted considering this action and the conclusions outlined below regarding groundwater, soil vapor and off-property residual contaminated soil.

10.2. Groundwater

Regional groundwater is deep (55 to 53 feet below local subject property ground surface [approximate Elevations 16 to 14 feet, NAVD88]) based on a groundwater monitoring well G-1 which was installed prior to construction activities on the property.

In our opinion, groundwater is not impacted by the releases at subject property based on the following:

- Groundwater was encountered during the installation of vertical shoring elements at approximate Elevations ranging from 10 to 15 feet, beneath the property (consistent with what was observed in monitoring well, G-1).
- Perched water was encountered in localized, discontinuous locations during subsurface explorations, but was not encountered during mass construction excavation of the subject property.
- A significant thickness of clean vadose zone soil was documented at the subject property. The contaminated soil extended to a maximum depth of approximately 18 feet below local subject property ground surface and the regional groundwater aquifer was first encountered at depths of approximately 53 to 55 feet below local subject property ground surface. Additionally, the regional groundwater aquifer does not fluctuate significantly with seasons based on GeoEngineers study of the groundwater aquifer in downtown Seattle. Therefore, the soil to groundwater pathway for contaminant migration is incomplete at the subject property.
- The potential source of contaminated groundwater (contaminated soil) was successfully excavated and removed from the subject property.
- Groundwater samples tested from G-1 showed that arsenic, chromium, and lead were present at concentrations less than MTCA Method A cleanup levels and petroleum hydrocarbons (gasoline-, diesel-, and heavy oil-range hydrocarbons), and BETX were not detected.
- A groundwater sample obtained from a nearby off-property monitoring well (MW-5) located opposite the subject property, across Lenora Street, indicated no petroleum impacts.

Based on the rationale above, groundwater is not contaminated at the subject property. Additional confirmation groundwater sampling is not necessary to document the successful cleanup action of the contaminated soil.

10.3. Soil Vapor

Chemical vapor conditions were not evaluated at the subject property because the selected remedy (remedial excavation) resulted in the removal of all source material that could result in vapor generation. Residual petroleum and PAH-contaminated soil at depth in public rights-of-way have limited volatility, are of limited magnitude and mass and do not warrant additional evaluation. Therefore, these conditions are fully protective of human health and the environment.

10.4. Off-property Residual Contamination Capped Beneath Pavement

Based on the chemical analytical results of the soil samples obtained at the subject property boundaries and in public rights-of-way (Lenora Street and the adjacent Alley), contaminants of concern (petroleum hydrocarbons and PAHs) were detected at concentrations greater than the MTCA Method A cleanup levels in soil samples obtained from boring B-2 completed in 2002 in the sidewalk of Lenora Street adjacent to the south subject property boundary. The likely source of this contamination is the USTs that were removed in 2002 (UST1) and in 2015 (UST2). Based on our observations and chemical analytical results of soil samples:

- The residual heavy oil-range and PAH-contaminated soil under Lenora Street is approximately 40 feet long by 10 feet wide and 8-feet thick (from approximate Elevation 62 to 56 feet, NAVD88) along the south property boundary; and in the alley it is approximately 50 feet long by 10 feet wide and is 8-feet thick (from approximate Elevation 63 to 55 feet, NAVD88) along the west property boundary.
- The RI/FS demonstrated through a practicability rationale and disproportionate cost analysis in the RI/FS Report that it was not feasible or practicable to remove this soil because:
 - **Lenora Street.** Contaminated soil is located approximately 24 feet deep (under Lenora Street) which requires significant and costly shoring for excavation, a multitude of utilities prevent excavation, and closure of Lenora Street will have an adverse and unacceptable impact on downtown traffic.
 - **Alley.** Presence of infrastructure elements in the alley associated with the triangular parcel shoring wall and adjacent underground parking garage structural and foundation elements (concrete footings and walls) that also support the Lenora Street stability preclude excavation.
- For both Lenora Street and the alley, these infrastructure elements cannot be demolished to access a limited volume of the contaminated soil as it will undermine the structural integrity of nearby improvements. Based on the chemical analytical results of the soil samples obtained at the subject property boundaries and in public rights-of-way, indicate that diesel- and heavy oil-range hydrocarbon- and PAH-contaminated soil exceeding MTCA Method A Cleanup levels remains capped beneath the City rights-of-way (Lenora Street and the alley).
- Contaminated soil that remains capped by the rights-of-way pavement is situated approximately 40 feet above the deep regional groundwater table beneath the Site. If feasible with the agreement of the City of Seattle GeoEngineers proposes recordation of an Environmental Covenant in accordance with WAC 173-340-440, with institutional controls that restrict future use and activities in the areas of Lenora Street and the alley (rights-of-way) where residual soil contamination remains in place as an added measure for human health and environment protection.
- Based on the chemical analytical results of the soil samples obtained at the final limits of the remedial excavations within the subject property boundary, all soil with contaminants of concern present at concentrations greater than the MTCA Method A cleanup levels was successfully removed

from the subject property. The remedial action completed to remove contaminated soil from the property associated with historic property uses and USTs resulted in site conditions that are fully protective of human health and the environment. Contaminated soil was excavated at the Site to the maximum extent practicable and residual contaminated soil outside the west and south property boundaries is capped and is not feasible to remove because of the presence of shoring walls, local infrastructure and the presence of very heavily trafficked downtown city street.

Based on the cleanup action completed at the property it is GeoEngineers' opinion that a property-specific no further action (NFA) determination from Ecology is warranted.

11.0 REFERENCES

GeoEngineers, 2014. Construction Contingency Plan for Contaminated Soil and Groundwater Management, 9th and Lenora Development, 2118 Westlake Avenue/2101 9th Avenue, Seattle, Washington, dated December 12, 2014.

GeoEngineers, 2015. Northeast Heating Oil UST Removal and Site Assessment Report, 9th and Lenora Development, Seattle, Washington, dated July 13, 2015.

12.0 LIMITATIONS

We have prepared this report for the exclusive use of Ninth and Lenora LLC, their authorized agents and regulatory agencies. This report is not intended for use by others and the information contained herein is not applicable to other sites. No other party may rely on the product of our services unless we agree in advance, and in writing, to such reliance. This is to provide our firm with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions.

Our conclusions are based on our site observations, field screening results and chemical analysis of a limited number of soil samples at the site. It is always possible that contaminants remain in areas that were not observed, sampled or tested.

Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted environmental science practices in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

Please refer to Appendix G titled "Report Limitations and Guidelines for Use," for additional information pertaining to use of this report.

Table 1
Soil Field Screening and Chemical Analytical Data¹
Soil Stockpiles and Mass Excavation of Fill Soil - Petroleum Hydrocarbons and PAHs
 Ninth Avenue and Lenora Street
 Seattle, Washington

Sample Location	Approximate Surface Elevation ² (feet)	Sample Identification	Sample Depth (feet bgs)	Approximate Sample Elevation (feet)	Field Screening ³		Petroleum Hydrocarbons (mg/kg)		Total cPAHs ⁵ (mg/kg)
					Sheen	Headspace Vapor (ppm)	Diesel Range ⁴	Heavy Oil Range ⁴	TEQ ⁶
July and August 2015 Confirmation Samples⁷									
Soil Stockpiles from Shoring Installation and Lenora Street Duct Bank Excavation	na	SS-1	na	na	SS	<1	56	350	0.0549
		SS-2			SS	<1	44	210	0.5135
		SS-3			MS	<1	74	650	0.0077
		SS-4			MS	<1	70	380	0.1324
		SS-5 ⁸			SS	<1	<40	300	--
		SS-6			HS	<1	610	2900	0.5016
		SS-7			SS	<1	43	120	0.0138
		SS-8			SS	<1	<35	76	0.0305
August 2015 Confirmation Samples⁹									
Mass Excavation of Shallow Fill Soil	69	MASSEX-1-10.0	10.0	59	NS	<1	<30	<59	0.0059
		MASSEX-2-10.0	10.0	59	NS	<1	<30	<59	0.0059
		MASSEX-3-7.0	7.0	62	NS	<1	<30	<60	0.006
		MASSEX-4-7.0	7.0	62	NS	<1	<29	61	0.0059
		MASSEX-4-9.0	9.0	60	NS	<1	<28	<56	--
		MASSEX-5-7.0	7.0	62	NS	<1	<31	<61	0.006
		MASSEX-6-7.0	7.0	62	NS	<1	<30	<59	0.006
		MASSEX-7-7.0	7.0	62	NS	<1	<31	<63	0.0062
		MASSEX-8-7.0	7.0	62	NS	<1	<31	<61	0.006
		MASSEX-9-8.0	8.0	61	NS	<1	<30	<60	0.0059
		MASSEX-10-8.0	8.0	61	NS	<1	<30	66	0.0059
		MASSEX-10-9.0	9.0	60	NS	<1	<28	<56	--
MASSEX-11-15.0	15.0	54	NS	<1	<29	<57	0.0057		
MTCA Method A or B Cleanup Level for Unrestricted Land Use							2,000	2,000	0.1

Notes:

- ¹Chemical analytical testing performed by OnSite Environmental Laboratory in Redmond, Washington. A copy of laboratory reports documenting chemical analytical data is presented in Appendix C.
- ²Elevations are approximate and based on Topographic Survey drawing provided from Bush, Roed & Hitchings, Sheet 2 of 3, dated 11/13.
- ³Field screening methods are described in Appendix A.
- ⁴Diesel- and heavy oil-range hydrocarbons analyzed by Northwest Method NWTPH-Dx.
- ⁵Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) analyzed by EPA Method 8270D/SIM.
- ⁶Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology specified in WAC 173-340-780(8). cPAHs that were not detected were assigned half the value of the detection limit for these calculations.
- ⁷Composite samples were obtained to characterize soil cuttings generated from shoring installation. Soil represented by these samples was considered "contaminated/impacted" and transported to Waste Management for permitted disposal.
- ⁸Sample was additionally analyzed for gasoline-range hydrocarbons and BTEX (benzene, ethylbenzene, toluene, and xylenes) by Northwest Method NWTPH-Gx/BTEX. Analytes were not detected above the laboratory practical quantitation limits.
- ⁹Approximate sample locations are shown on attached Figure 5.
- bgs = below ground surface
 HS = Heavy sheen: MS = Moderate sheen: SS = Slight sheen: NS = No sheen
 mg/kg = milligrams per kilogram
 MTCA = Model Toxics Control Act
 na = Not applicable
 ppm = parts per million
 -- = Not tested
- Bold** value indicates analyte was detected at the listed concentration.
 Shading indicates analyte detected at concentration exceeding the MTCA Method A cleanup level for unrestricted land use.

Table 2
Soil Field Screening and Chemical Analytical Data¹
Elevator Shaft and Hoist - Petroleum Hydrocarbons
 Ninth Avenue and Lenora Street
 Seattle, Washington

Sample Location ²	Approximate Surface Elevation ³ (feet)	Sample Identification	Sample Depth (feet bgs)	Approximate Sample Elevation (feet)	Field Screening ⁴		Petroleum Hydrocarbons		
					Sheen	Headspace Vapor (ppm)	Gasoline Range ⁵	Diesel Range ⁶	Heavy Oil Range ⁶
August 2015 - Product Characterization Samples									
Elevator Shaft	75	ELVTR-Product	na	na	HS	--	ND	Detected	Detected
Hydraulic Hoist	69	HOIST-Product	na	na	HS	--	ND	Detected	Detected
August 2015 - UST2 Soil Confirmation Samples (mg/kg)									
Elevator Shaft Excavation	75	ELEVTR-1-20.0	20.0	55	NS	<1	--	<28	<56
Hoist Excavation	69	HOIST-EX-7.0	7.0	62	NS	<1	--	<31	<62
MTCA Method A Cleanup Levels for Soil - Unrestricted Land Use							30/100 ⁷	2,000	2,000

Notes:

¹Chemical analytical testing performed by OnSite Environmental Laboratory in Redmond, Washington. A copy of laboratory reports documenting chemical analytical data is presented in Appendix C.

²Approximate exploration locations are shown on attached Figure 6.

³Elevations are approximate and based on Topographic Survey drawing provided from Bush, Roed & Hitchings, Sheet 2 of 3, dated 11/13.

⁴Field screening methods are described in Appendix A.

⁵Gasoline-range hydrocarbons analyzed by Northwest Method NWTPH-KCID.

⁶Diesel- and heavy oil-range hydrocarbons analyzed either by Northwest Method NWTPH-Dx and/or NWTPH-HCID..

⁷Cleanup level is 100 mg/kg when benzene is not present.

bgs = below ground surface

HS = Heavy sheen: NS = No sheen

mg/kg = milligrams per kilogram

MTCA = Model Toxics Control Act

ND = Not detected

ppm = parts per million

Bold value indicates analyte was detected at the listed concentration.

Shading indicates analyte detected at concentration exceeding the MTCA Method A or B cleanup level for unrestricted land use.

Table 3
Soil and Groundwater Field Screening and Chemical Analytical Data¹
UST2 - BETX, Petroleum Hydrocarbons, and PAHs
 Ninth Avenue and Lenora Street
 Seattle, Washington

Sample Location ²	Approximate Surface Elevation ³ (feet)	Sample Identification	Sample Depth (feet bgs)	Approximate Sample Elevation (feet)	Field Screening ⁴		BETX ⁵				Petroleum Hydrocarbons			Polycyclic Aromatic Hydrocarbons ⁸	
					Sheen	Headspace Vapor (ppm)	Benzene	Toluene	Ethyl benzene	Total Xylenes	Gasoline Range ⁶	Diesel Range ⁷	Heavy Oil Range ⁷	Naphthalenes	Total cPAHS (TEQ) ⁹
August 2015 - UST2 Product Characterization Sample															
UST2	na	SW-UST-Product	na	na	HS	14	--	--	--	--	ND	Detected	Detected	--	--
August 2015 - UST2 Soil Characterization Samples (mg/kg)¹⁰															
UST2 Pit	87	UST2-W-22.0	22.0	65	HS	13	--	--	--	--	--	4,300	29,000	19.6	0.635
		UST2-S-22.0	22.0	65	HS	23	--	--	--	--	--	2,500	30,000	25.5	0.489
		UST2-B-24.0	24.0	63	HS	27	--	--	--	--	--	2,900	40,000	38.7	0.534
August 2015 - UST2 Soil Confirmation Samples (mg/kg)															
UST2 Remedial Excavation	87	UST2EX-N-33.0	33.0	54	NS	<1	<0.020	<0.064	<0.064	<0.128	<6.4	<33	<66	<0.264	0.0066
		UST2EX-S1-20.0	20.0	67	NS	<1	<0.020	<0.055	<0.055	<0.11	<5.5	<25	<50	--	--
		UST2EX-S1-24.0	24.0	63	NS	<1	--	--	--	--	<7.6	<33	<65	--	--
		UST2EX-S1-33.0	33.0	54	NS	<1	<0.020	<0.06	<0.06	<0.12	<6.0	<27	<55	<0.0219	0.0056
		UST2EX-S2-22.0 ¹¹	22.0	65	NS	<1	--	--	--	--	--	<31	<61	0.0568	0.0062
		UST2EX-S2-24.0 ¹¹	24.0	63	NS	<1	--	--	--	--	--	56	490	0.73	0.008
		UST2EX-S2-33.0	33.0	54	NS	<1	<0.020	<0.069	<0.069	<0.138	<6.9	<32	<63	<0.0252	0.0063
		UST2EX-E-24.0	24.0	63	NS	<1	--	--	--	--	--	<32	<64	<0.0255	0.0064
		UST2EX-E-35.0	35.0	52	NS	<1	<0.020	<0.069	<0.069	<0.178	<6.9	<32	<64	<0.0258	0.0065
		UST2EX-W1-22.0	22.0	65	NS	<1	--	--	--	--	--	<32	<64	<0.0255	0.0065
		UST2EX-W1-24.0 ¹¹	24.0	63	NS	<1	--	--	--	--	--	1,700	19,000	6.0	0.1501
		UST2EX-W1-33.0 ¹¹	33.0	54	NS	<1	<0.02	<0.079	<0.079	<0.158	<7.9	<33	<65	0.082	0.0066
		UST2EX-W2-24.0	24.0	63	NS	<1	--	--	--	--	--	<32	<63	<0.0255	0.0065
		UST2EX-W2-30.0 ¹¹	30.0	57	NS	<1	--	--	--	--	--	240	1,800	1.72	0.022
UST2EX-W2-33.0	33.0	54	NS	<1	<0.020	<0.067	<0.067	<0.134	<6.7	<31	<62	<0.0249	0.0063		
UST2EX-W3-30.0	30.0	57	NS	<1	<0.020	<0.064	<0.064	<0.128	<6.4	<32	<65	<0.0258	0.0065		
UST2EX-B1-35.0	35.0	52	NS	<1	<0.020	<0.063	<0.063	<0.126	<6.3	<26	<53	<0.021	0.0053		
UST2EX-B2-36.0	36.0	51	NS	<1	<0.020	<0.073	<0.073	<0.146	<7.3	<32	<64	<0.0255	0.0065		
MTCA Method A Cleanup Levels for Soil - Unrestricted Land Use							0.03	7	6	9	100 ¹²	2,000	2,000	2,000	2,000

Notes:

¹Chemical analytical testing performed by OnSite Environmental Laboratory in Redmond, Washington. A copy of laboratory reports documenting chemical analytical data is presented in Appendix C.

²Approximate sample locations are shown on attached Figure 6.

³Elevations are approximate and based on Topographic Survey drawing provided from Bush, Roed & Hitchings, Sheet 2 of 3, dated 11/13.

⁴Field screening methods are described in Appendix A.

⁵BETX (benzene, ethylbenzene, toluene, and xylenes) analyzed by EPA Method 8021B.

⁶Gasoline-range hydrocarbons analyzed either by Northwest Method NWTPH-Gx and/or NWTPH-HCID.

⁷Diesel- and heavy oil-range hydrocarbons analyzed either by Northwest Method NWTPH-Dx and/or NWTPH-HCID.

⁸Polycyclic aromatic hydrocarbons (PAHs) analyzed by EPA Method 8270D/SIM.

⁹Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology specified in WAC 173-340-780(8). cPAHs that were not detected were assigned half the value of the detection limit for these calculations.

¹⁰Soil represented by these samples was considered contaminated; subsequently excavated and transported to Waste Management for permitted disposal.

¹¹These samples represent soil conditions outside the south and west property boundaries.

¹²Cleanup level when benzene is not present.

bgs = below ground surface

HS = Heavy sheen: NS = No sheen

mg/kg = milligrams per kilogram

MTCA = Model Toxics Control Act

na = Not applicable

ND = Not detected

ppm = parts per million

-- = Not tested

Bold value indicates analyte was detected at the listed concentration.

Shading indicates analyte detected at concentration exceeding the MTCA Method A cleanup level for unrestricted land use.

Table 4
Soil Field Screening and Chemical Analytical Data¹
UST3 - Petroleum Hydrocarbons
 Ninth Avenue and Lenora Street
 Seattle, Washington

Sample Location ²	Approximate Surface Elevation ³ (feet)	Sample Identification	Sample Depth (feet bgs)	Approximate Sample Elevation (feet)	Field Screening ⁴		Petroleum Hydrocarbons	
					Sheen	Headspace Vapor (ppm)	Diesel Range ⁵	Heavy Oil Range ⁵
June 2015 - UST3 Soil Characterization Samples (mg/kg)								
UST3 Pit	67	UST3-N-3.0	3.0	64	SS	<1	<28	<56
		UST3-S-3.0	3.0	64	SS	<1	<28	<57
		UST3-B-7.0 ⁶	7.0	60	HS	<1	2,300	1,400
Fuel Supply Line	80	UST3-FL-2.0	2.0	78	NS	<1	<28	<56
August 2015 - UST3 Soil Confirmation Samples (mg/kg)								
UST3 Remedial Excavation	67	UST3EX-N-10.0	10.0	57	NS	<1	<31	<62
		UST3EX-S-10.0	10.0	57	NS	<1	<31	<61
		UST3EX-E-10.0	10.0	57	NS	<1	<33	<67
		UST3EX-W-10.0	10.0	57	NS	<1	<32	<63
		UST3EX-B-15.0	15.0	52	NS	<1	<31	<63
MTCA Method A Cleanup Level for Unrestricted Land Use							2,000	2,000

Notes:

¹Chemical analytical testing performed by OnSite Environmental Laboratory in Redmond, Washington. A copy of laboratory reports documenting chemical analytical data is presented in Appendix C.

²Approximate sample locations are shown on attached Figure 7.

³Elevations are approximate and based on Topographic Survey drawing provided from Bush, Roed & Hitchings, Sheet 2 of 3, dated 11/13.

⁴Field screening methods are described in Appendix A.

⁵Diesel- and heavy oil-range hydrocarbons analyzed by Northwest Method NWTPH-Dx.

⁶Soil represented by this sample was considered contaminated; subsequently excavated and transported to Waste Management for permitted disposal.

bgs = below ground surface

HS = Heavy sheen: MS = Moderate sheen: SS = Slight sheen: NS = No sheen

mg/kg = milligrams per kilogram

MTCA = Model Toxics Control Act

ppm = parts per million

Bold value indicates analyte was detected at the listed concentration.

Shading indicates analyte detected at concentration exceeding the MTCA Method A or B cleanup level for unrestricted land use.

Table 5
Groundwater Chemical Analytical Data¹
BETX and Petroleum Hydrocarbons
Ninth Avenue and Lenora Street
Seattle, Washington

Sample Identification ²	Sample Date	BETX ³				Petroleum Hydrocarbons		
		Benzene	Ethyl benzene	Toluene	Total Xylenes	Gasoline Range ⁴	Diesel Range ⁵	Heavy Oil Range ⁵
Groundwater Confirmation Sample (µg/L)								
G-1-W-071715	Jul-15	<1.0	<1.0	<1.0	<2.0	<100	<260	<410
MW-5	Sep-93	ND	ND	ND	ND	<50	<250	<750
MTCA Method A Cleanup Levels for Groundw		5	700	1,000	1,000	1,000	500	500

Notes:

¹Chemical analytical testing performed by OnSite Environmental Laboratory in Redmond, Washington. A copy of laboratory report documenting chemical analytical data is presented in Appendix C.

²Approximate sample locations are shown on attached Figure 7.

³BETX (benzene, ethylbenzene, toluene, and xylenes) analyzed by EPA Method 8021B.

⁴Gasoline-range hydrocarbons analyzed either by Northwest Method NWTPH-Gx and/or NWTPH-HCID.

⁵Diesel- and heavy oil-range hydrocarbons analyzed either by Northwest Method NWTPH-Dx and/or NWTPH-HCID.

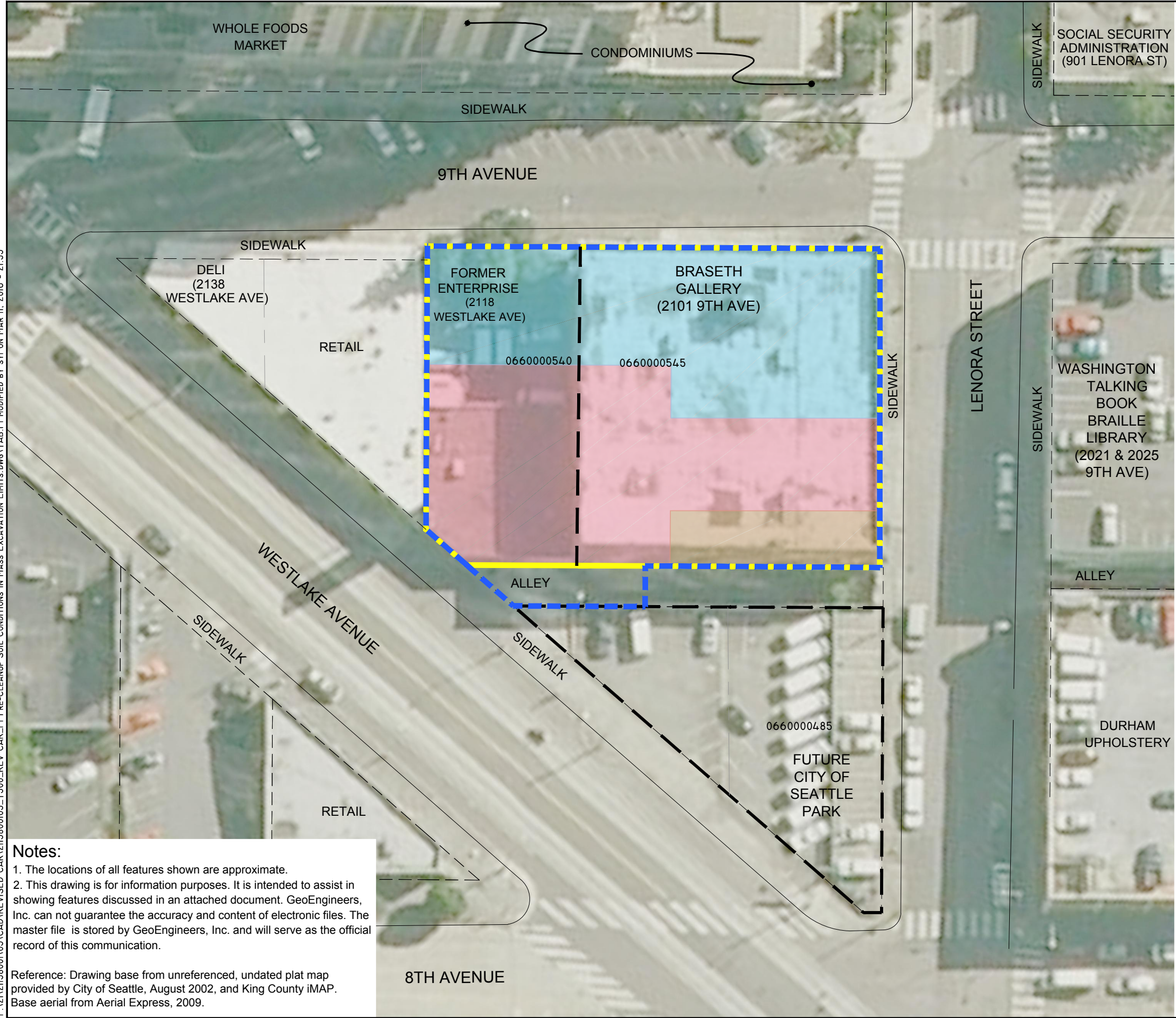
bgs = below ground surface

µg/L = micrograms per liter

ND = Not Detected

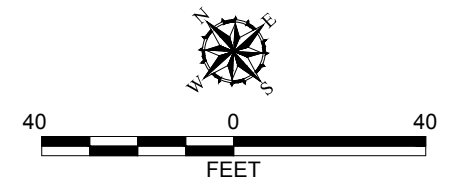
MTCA = Model Toxics Control Act

P:\2121138001\03\CAD\REVISED CAR\212113800103_T500_REV_CAR_FI_PRE-CLEANUP_SOIL_CONDITIONS_IN_MASS_EXCAVATION_LIMITS.DWG\TAB.FI_MODIFIED BY SYI ON MAR 11, 2016 - 21:53



Legend:

- - - Subject Property Boundary
- - - Mass Excavation Limits
- (2101 9TH AVE) Property Address
- 0660000545 Parcel Number
- - - Parcel Line
- Zone 1: Area of Impacted fill to an approximate depth of 10 feet bgs (Elev. 60)
- Zone 2: Estimated extent of contaminated fill to an approximate depth of 6 feet bgs (Elev. 63)
- Zone 3: Estimated extent of contaminated fill to an approximated depth of 18 feet bgs (Elev. 51)



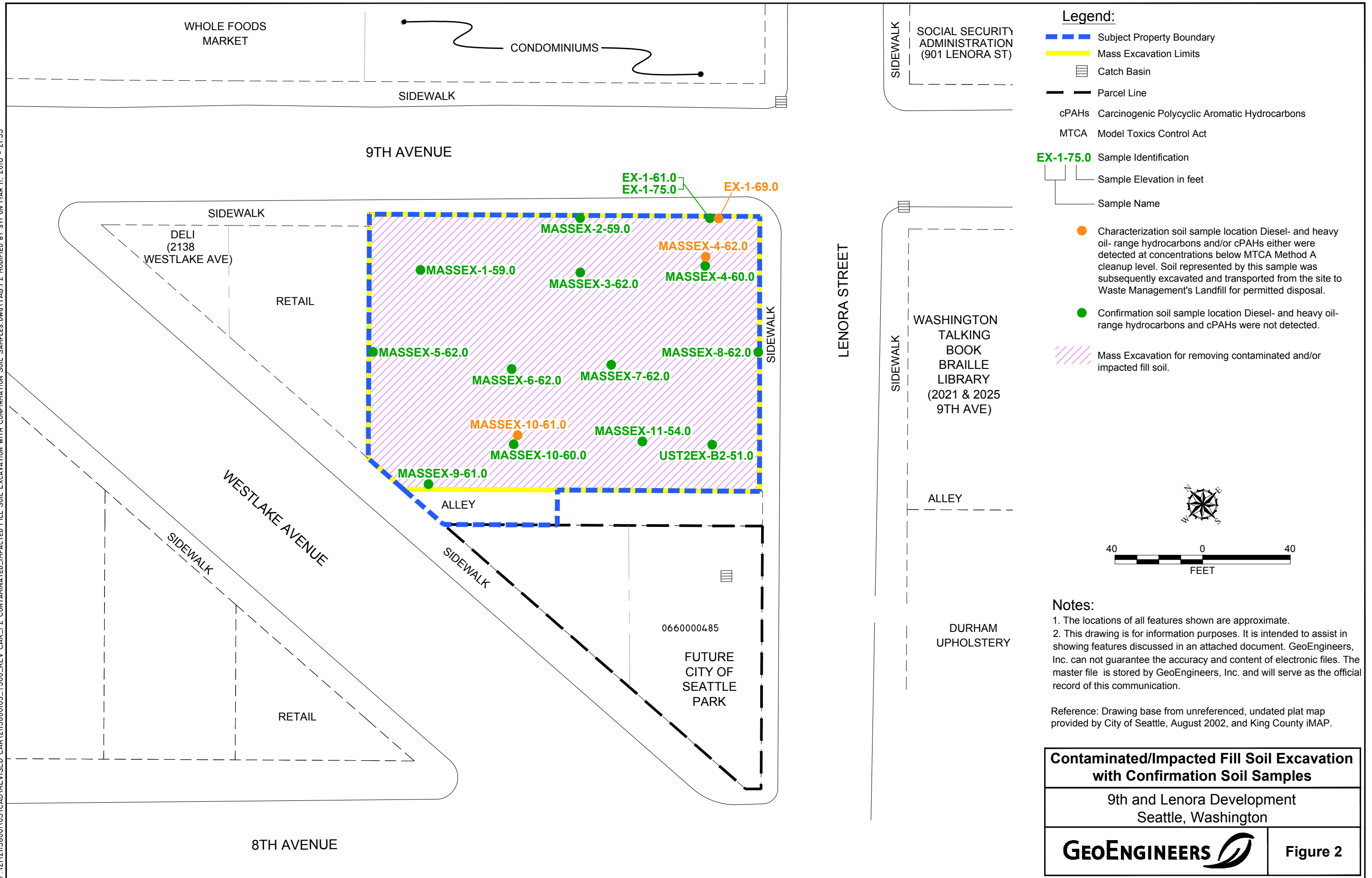
Notes:

- The locations of all features shown are approximate.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

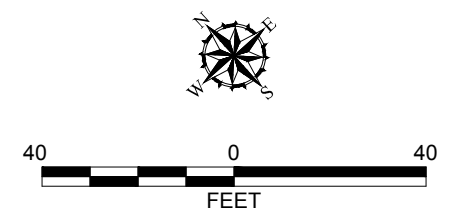
Reference: Drawing base from unreferenced, undated plat map provided by City of Seattle, August 2002, and King County iMAP. Base aerial from Aerial Express, 2009.

Pre-Cleanup Soil Conditions in Mass Excavation Limits	
9th and Lenora Development Seattle, Washington	
GEOENGINEERS	Figure 1

P:\21\2138001\03\CAD\REVISED_CAR\213800103_T500_REV_CAR_F2_CONTAMINATED_IMPACTED_FILL_SOIL_EXCAVATION_WITH_CONFIRMATION_SOIL_SAMPLES.DWG TAB:F2 MODIFIED BY SYI ON MAR 11, 2016 - 21:53



- Legend:**
- — — Subject Property Boundary
 - — — Mass Excavation Limits
 - Catch Basin
 - — — Parcel Line
 - cPAHs Carcinogenic Polycyclic Aromatic Hydrocarbons
 - MTCA Model Toxics Control Act
 - EX-1-75.0 Sample Identification
 - Sample Elevation in feet
 - Sample Name
 - Characterization soil sample location Diesel- and heavy oil- range hydrocarbons and/or cPAHs either were detected at concentrations below MTCA Method A cleanup level. Soil represented by this sample was subsequently excavated and transported from the site to Waste Management's Landfill for permitted disposal.
 - Confirmation soil sample location Diesel- and heavy oil- range hydrocarbons and cPAHs were not detected.
 - Mass Excavation for removing contaminated and/or impacted fill soil.



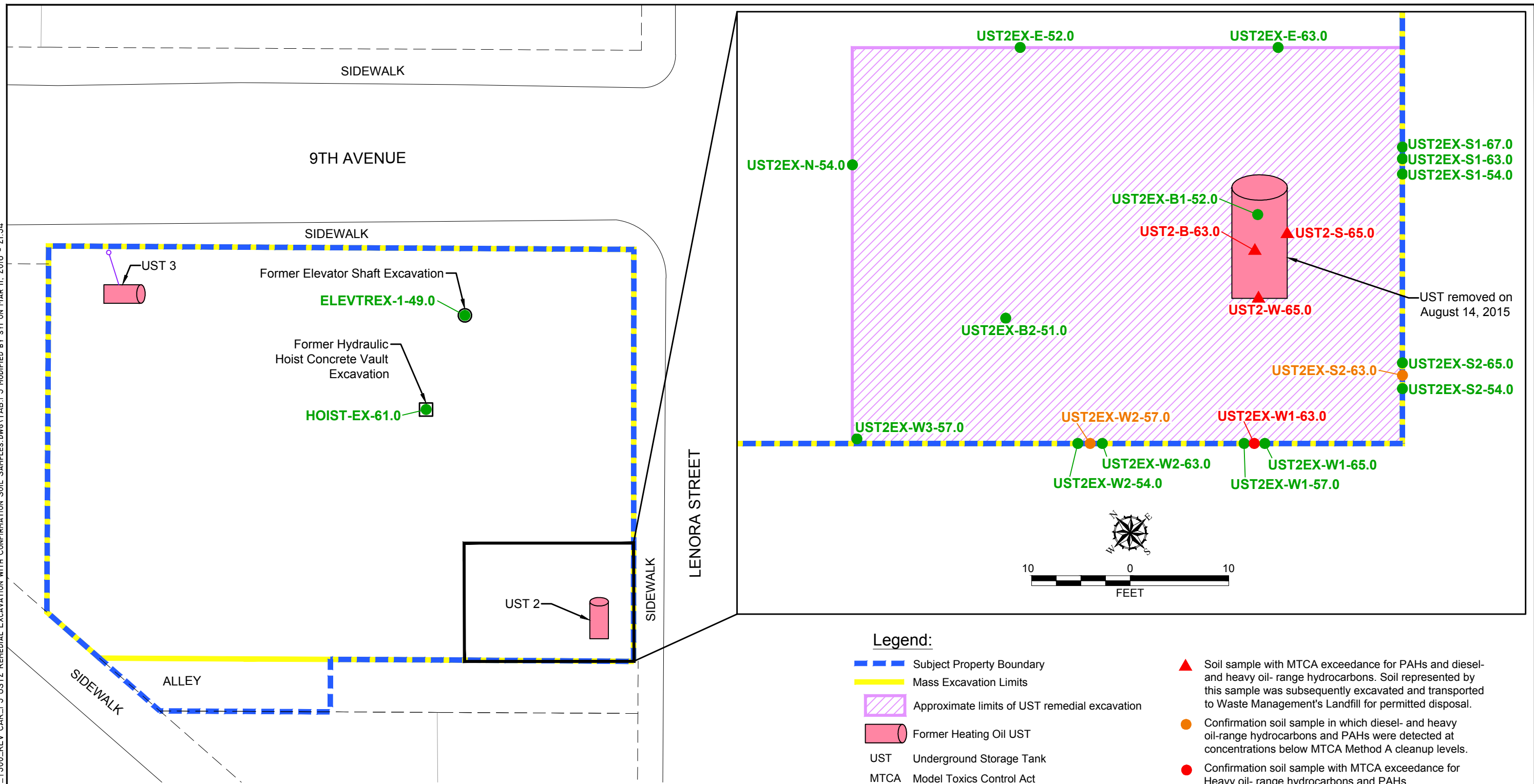
Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Drawing base from unreferenced, undated plat map provided by City of Seattle, August 2002, and King County iMAP.

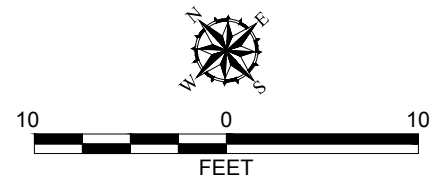
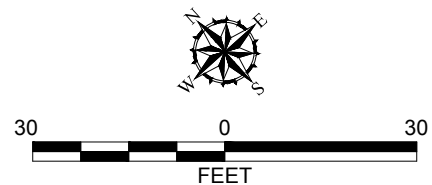
Contaminated/Impacted Fill Soil Excavation with Confirmation Soil Samples	
9th and Lenora Development Seattle, Washington	
	Figure 2

P:\21\2138001\03\CAD\REVISED CAR\2113800103_T500_REV CAR_F3 UST2 REMEDIAL EXCAVATION WITH CONFIRMATION SOIL SAMPLES.DWG(TAB:F3 MODIFIED BY SYI ON MAR 11, 2016 - 21:54



Notes:
 1. The locations of all features shown are approximate.
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Drawing base from unreferenced, undated plat map provided by City of Seattle, August 2002, and King County iMAP. Base aerial from Aerial Express, 2009.

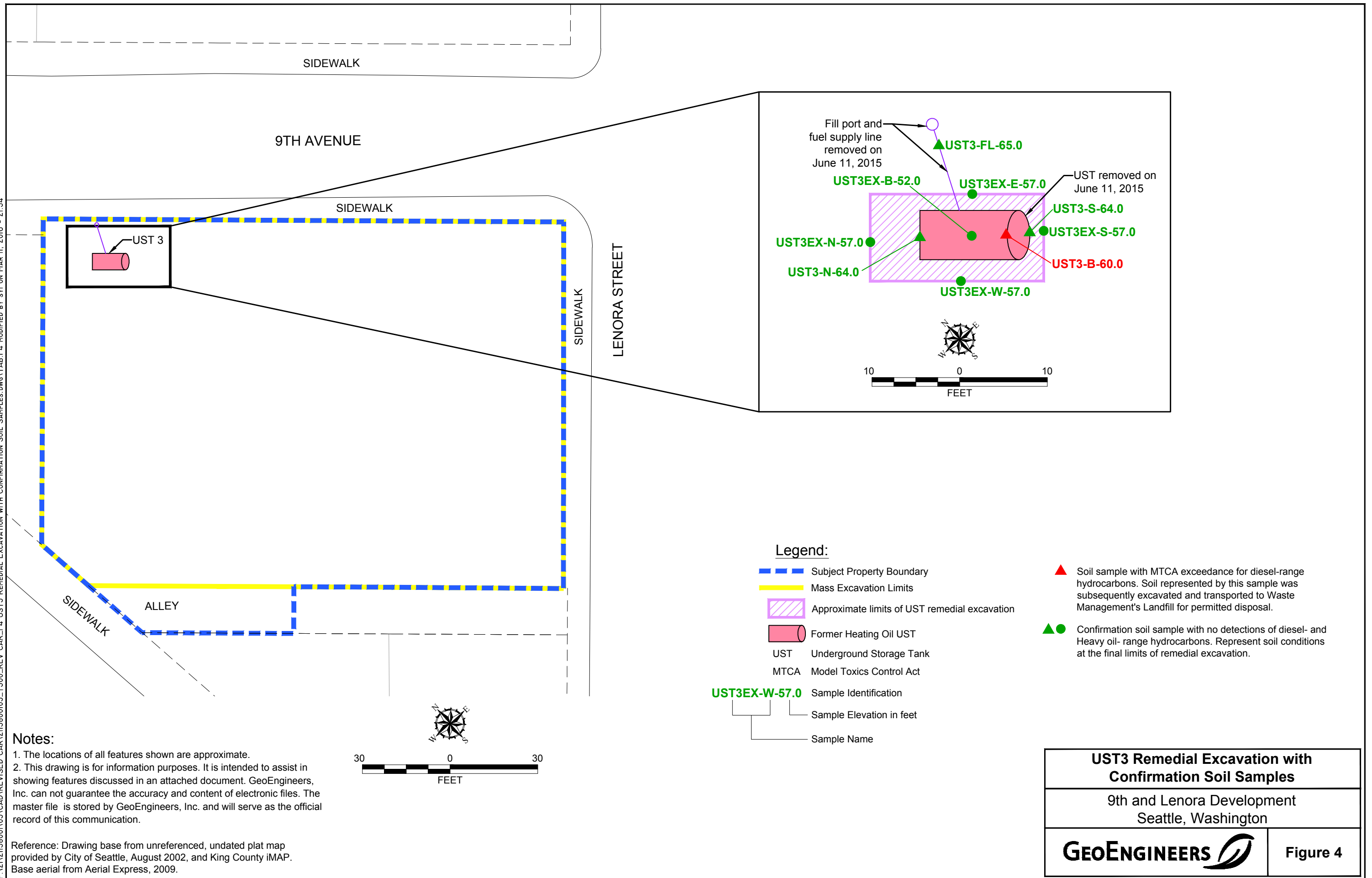


- Legend:**
- Subject Property Boundary
 - Mass Excavation Limits
 - Approximate limits of UST remedial excavation
 - Former Heating Oil UST
 - UST Underground Storage Tank
 - MTCA Model Toxics Control Act
 - PAHs Polycyclic Aromatic Hydrocarbons
 - UST2EX-E-52.0 Sample Identification
 - Sample Elevation in feet
 - Sample Name

- ▲ Soil sample with MTCA exceedance for PAHs and diesel- and heavy oil- range hydrocarbons. Soil represented by this sample was subsequently excavated and transported to Waste Management's Landfill for permitted disposal.
- Confirmation soil sample in which diesel- and heavy oil-range hydrocarbons and PAHs were detected at concentrations below MTCA Method A cleanup levels.
- Confirmation soil sample with MTCA exceedance for Heavy oil- range hydrocarbons and PAHs.
- Confirmation soil sample with no detections of petroleum hydrocarbons and PAHs.

UST2 Remedial Excavation with Confirmation Soil Samples	
9th and Lenora Development Seattle, Washington	
GEOENGINEERS	Figure 3

P:\21\21138001\03\CAD\REVISED CAR\2113800103_T500_REV CAR_F4_UST3 REMEDIAL EXCAVATION WITH CONFIRMATION SOIL SAMPLES.DWG(TAB:F4, MODIFIED BY SYI ON MAR 11, 2016 - 2:15:4

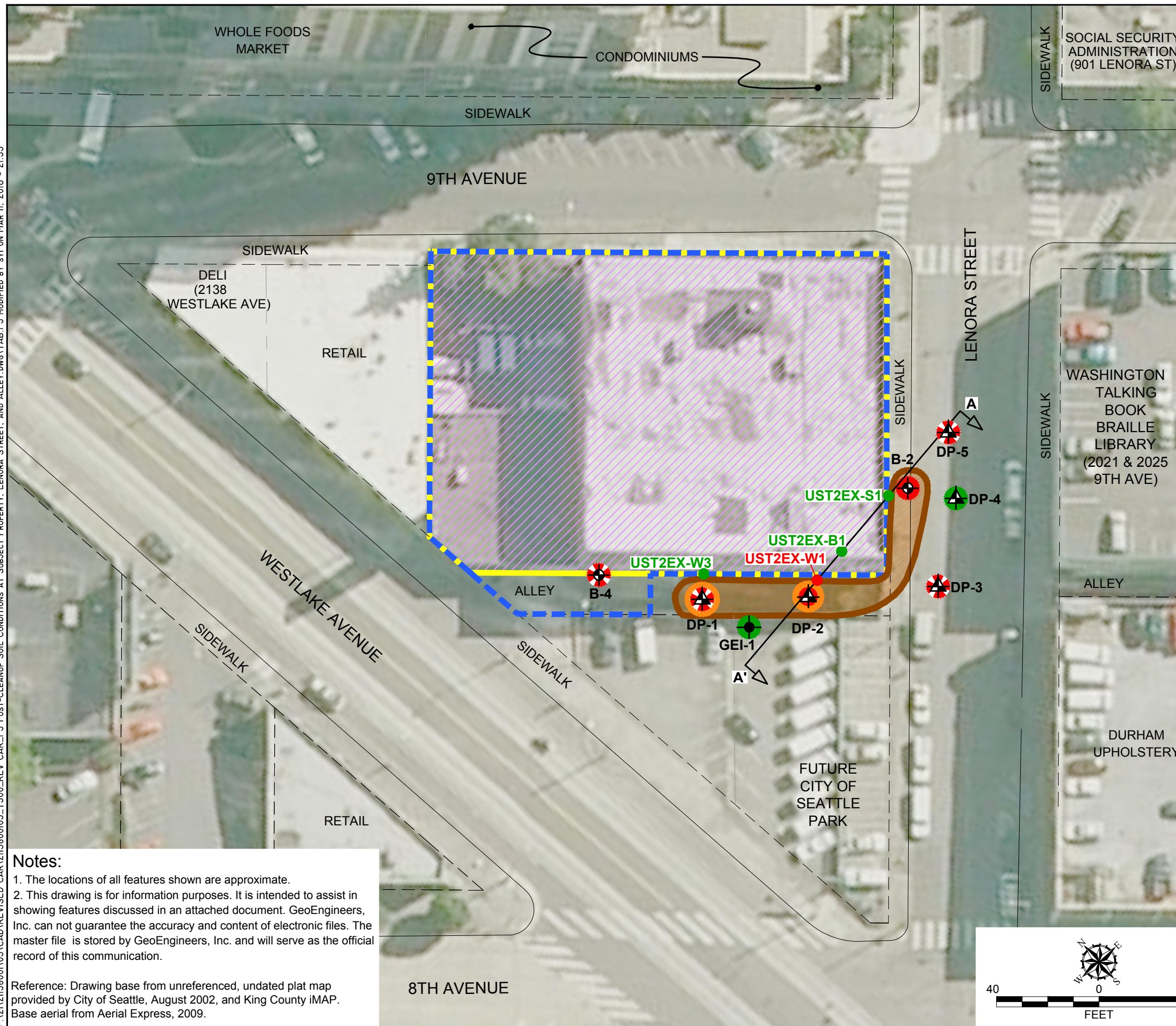


Notes:
 1. The locations of all features shown are approximate.
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Drawing base from unreferenced, undated plat map provided by City of Seattle, August 2002, and King County iMAP. Base aerial from Aerial Express, 2009.

UST3 Remedial Excavation with Confirmation Soil Samples	
9th and Lenora Development Seattle, Washington	
GEOENGINEERS	Figure 4

P:\2121138001\03\CAD\REVISED CAR\2113800103_T500_REV CAR_F5 Post-Cleanup Soil Conditions AT SUBJECT PROPERTY, LENORA STREET, AND ALLEY.DWG\TAB:F5 MODIFIED BY SYI ON MAR 11, 2016 - 21:55



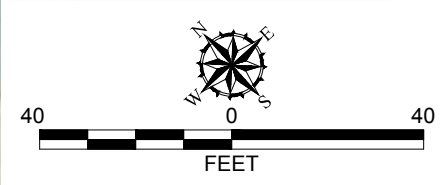
Legend:

- Subject Property Boundary
- Mass Excavation Limits
- DP-1** Direct-Push Boring (GeoEngineers, Sep. 2014)
- GEI-1** Soil Boring (GeoEngineers, July 2007)
- B-2** Direct-Push Boring (GeoEngineers, Aug. 2002)
- CUL** Applicable MTCA Method A Cleanup Level
- PAHs** Polycyclic Aromatic Hydrocarbons
- Former Braseth Gallery building was demolished and soil at the subject property was excavated to an approximate elevation of 7 feet during mass excavation
- Petroleum hydrocarbons detected at concentrations above CUL
- Petroleum hydrocarbons detected at concentrations below CUL
- PAHs detected at concentrations above CUL
- Interpreted extent of PAHs and petroleum-contaminated soil with MTCA exceedance
- UST2EX-B1** Sample Identification
- Sample Name
- Petroleum hydrocarbons and PAHs not detected
- Approximate cross section location

Notes:

- The locations of all features shown are approximate.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Drawing base from unreferenced, undated plat map provided by City of Seattle, August 2002, and King County iMAP. Base aerial from Aerial Express, 2009.



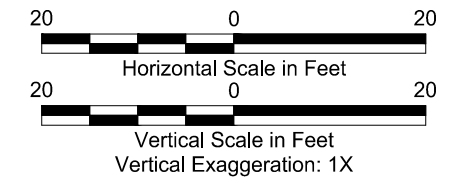
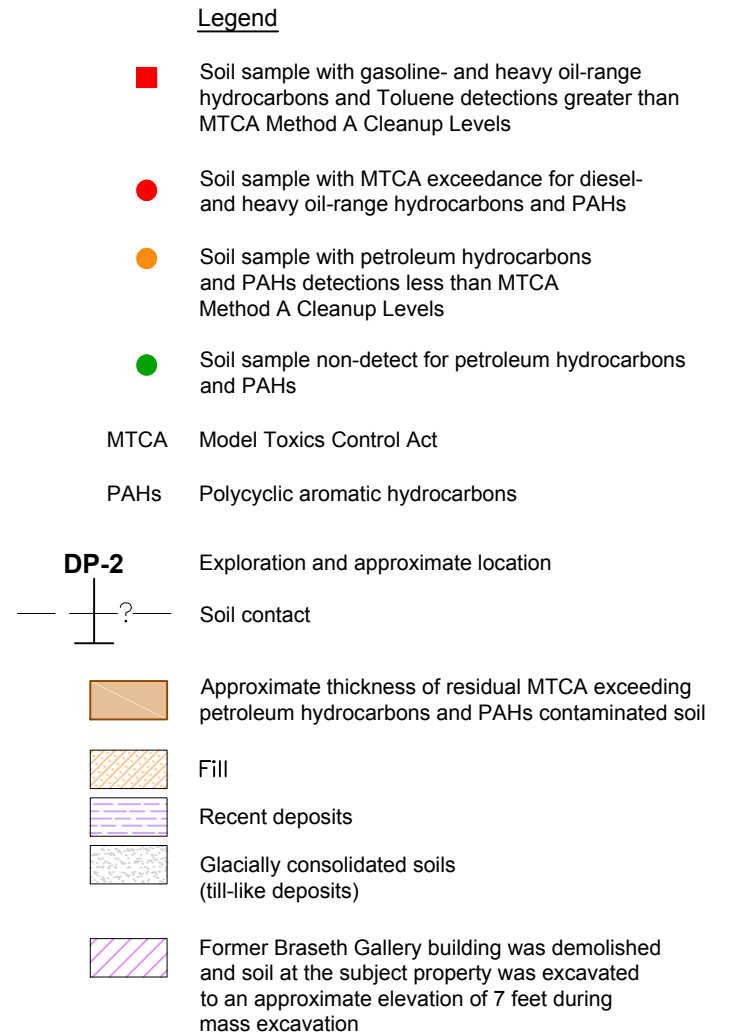
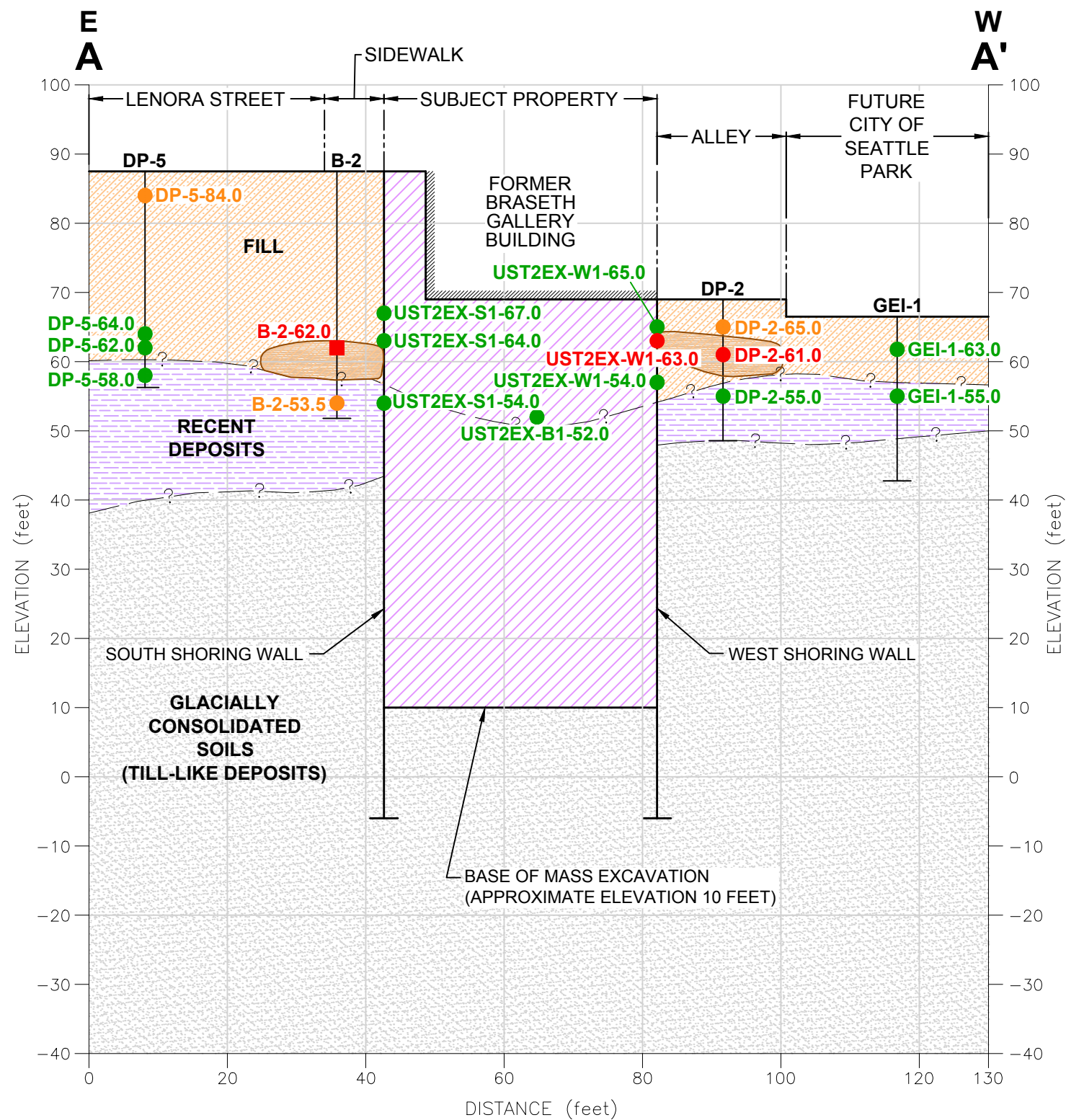
**Post-Cleanup Soil Conditions at
Subject Property, Lenora Street, and Alley**

9th and Lenora Development
Seattle, Washington

GEOENGINEERS

Figure 5

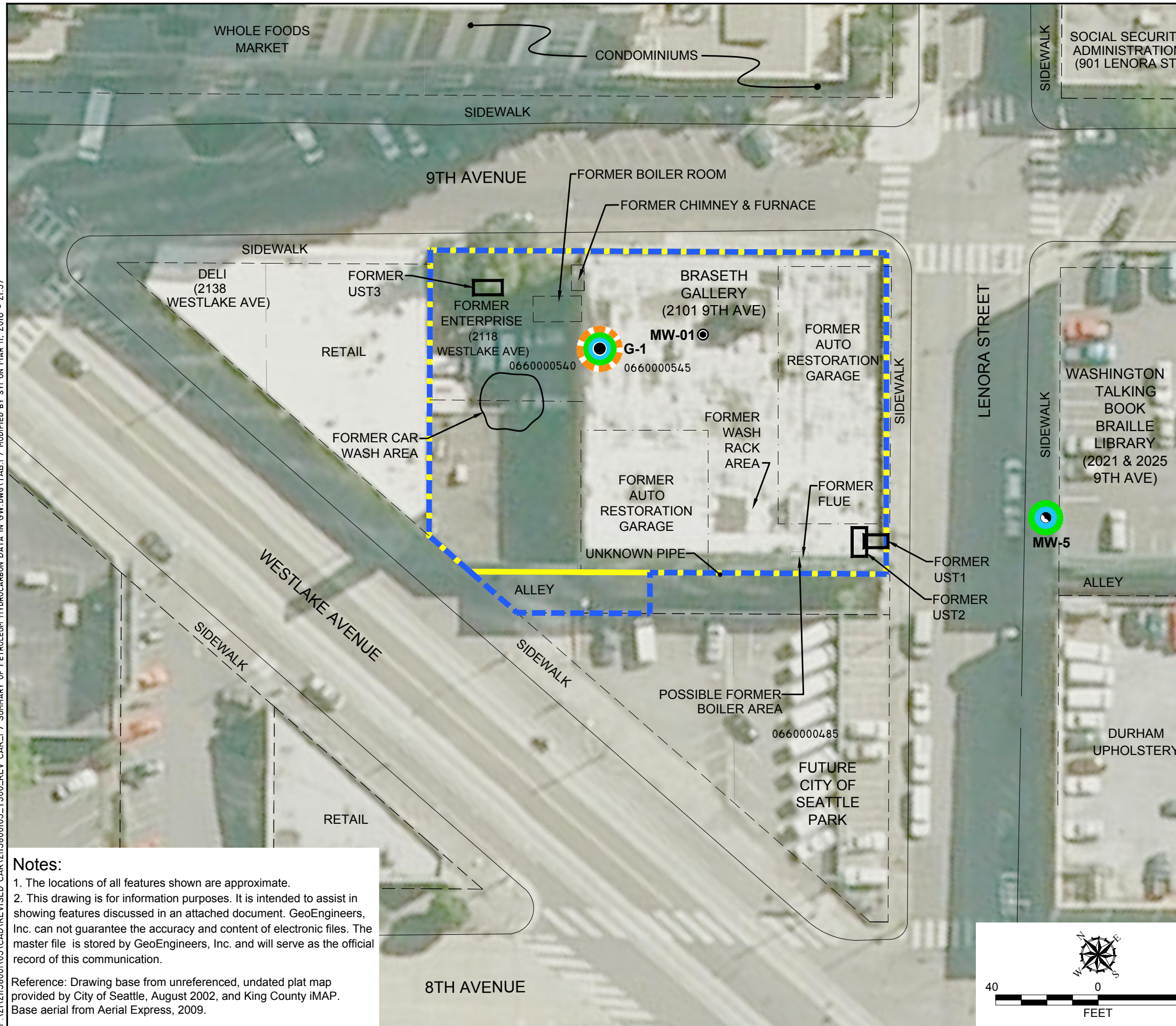
P:\21\2138001\03\CAD\REVISED CAR\2113800103_T500_REV_CAR_F6_CROSS SECTION A-A'.DWG\TAB\F6 MODIFIED BY SY1 ON MAR 11, 2016 - 21:56



- Notes:**
1. The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.
 2. Refer to Figure 7 for location of Cross Section.
 3. This figure is for informational purposes only. It is intended to assist in the identification of features discussed in a related document. Data were compiled from sources as listed in this figure. The data sources do not guarantee these data are accurate or complete. There may have been updates to the data since the publication of this figure. This figure is a copy of a master document. The master hard copy is stored by GeoEngineers, Inc. and will serve as the official document of record.

Cross Section A-A'	
9th and Lenora Development Seattle, Washington	
GEOENGINEERS	Figure 6

P:\21121138001\03\CAD\REVISED CAR\2113800103_T500_REV_CAR_F7 SUMMARY OF PETROLEUM HYDROCARBON DATA IN GW.DWG\TAB:F7 MODIFIED BY SYI ON MAR 11, 2016 - 21:57



Legend:

- Subject Property Boundary
- Mass Excavation Limits
- G-1** Monitoring Well (GeoEngineers, Dec. 2013)
- MW-01** Monitoring Well (GeoEngineers, July 2013)
- MW-5** Offsite Monitoring Well (GeoEngineers, Sep. 1993)
- (2101 9TH AVE) Property Address
- 0660000545 Parcel Number
- UST Underground Storage Tank
- CUL Applicable MTCA Method A Cleanup Level
- Estimated Footprint of Former Structures
- Groundwater Sample from Monitoring Well
- Metals detected at concentrations below CUL
- Petroleum hydrocarbons not detected

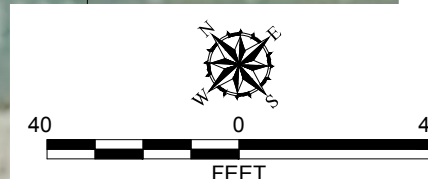
Notes:

1. Benzene was not detected in B-1.
2. MW-01 was dry. Monitoring wells G-1 and MW-01 were decommissioned in July 2015, prior to mass excavation.
3. The discrete, one-time perched water samples were obtained directly from the boreholes of borings B-2, B-3 in 2002 and DP-3, DP-4, and DP-5 in 2014. These perched water samples should be considered reconnaissance samples. These samples were biased high for metals because silt particles were incorporated into the sample bottles and do not represent groundwater conditions at the subject property. Sample G-1 obtained from a monitoring well is representative of groundwater quality, at the subject property. Sample MW-5 obtained from a monitoring well is representative of groundwater quality, at the Lenora Street. See report text for further explanation.

Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Drawing base from unreferenced, undated plat map provided by City of Seattle, August 2002, and King County iMAP. Base aerial from Aerial Express, 2009.



Summary of Petroleum Hydrocarbons and Metals Data in Groundwater	
9th and Lenora Development Seattle, Washington	
	Figure 7

APPENDIX A
Field Procedures and Wells Decommissioning Documents

APPENDIX A FIELD PROCEDURES AND WELLS DECOMMISSIONING DOCUMENTS

Sample Collection and Handling

Soil samples were obtained from the excavation area using a clean nitrile-gloved hand from the excavator bucket. Each sample was placed in a 4-ounce laboratory-prepared jar filled to minimize headspace. Gloves were changed between samples to prevent cross-contamination. The samples were placed in an iced cooler pending transport to the analytical laboratory.

Each sample submitted for chemical analysis was identified by a unique sample designation that corresponded to its mapped sample location and depth below ground surface. Chain-of-custody procedures were followed in transporting the samples to the laboratory.

Field Screening of Soil Samples

A representative from our staff performed field screening of soil samples obtained from the excavation. Field screening results are used as a general guideline to delineate areas with possible petroleum hydrocarbons. In addition, screening results are used to aid in the selection of soil samples for chemical analysis. The screening methods used include: 1) visual screening, and 2) water sheen screening.

Visual screening consists of inspecting the soil for stains indicative of petroleum hydrocarbons. Visual screening is generally more effective when hydrocarbons are heavier, such as motor oil, or when hydrocarbon concentrations are high. Water sheen screening is a more sensitive methods that can be effective in detecting contamination at concentrations less than regulatory cleanup levels. However, field screening results are site-specific. The effectiveness of field screening varies with temperature, moisture content, organic content, soil type and age of contaminant. The presence or absence of a sheen does not necessarily indicate the presence or absence of petroleum hydrocarbons.

Water sheen screening involves placing soil in water and observing the water surface for signs of sheen. Sheen screening may detect both volatile and nonvolatile petroleum hydrocarbons. Sheen classifications are as follows:

No Sheen (NS)	No visible sheen on water surface.
Slight Sheen (SS)	Light, colorless, dull sheen; spread is irregular, not rapid; sheen dissipates rapidly. Natural organic matter in the soil may produce a slight sheen.
Moderate Sheen (MS)	Light to heavy sheen; may have some color/iridescence; spread is irregular to flowing, may be rapid; few remaining areas of no sheen on water surface.
Heavy Sheen (HS)	Heavy sheen with color/iridescence; spread is rapid; entire water surface may be covered with sheen.



Bill To:
 ATTN: ACCOUNTS PAYABLE
 GeoEngineers - Redmond
 Fasih Khan
 8410 154th Avenue NE
 Redmond, Washington 98052

Invoice #: 1501183
 Quote #: 00004090
 Account #: 1GEOENG052
 JobID #: 103150857
 Invoice Date: 07/30/2015
 Terms: Net 30
 Due Date: 08/29/2015

REMIT TO: Cascade Drilling, LP. PO Box 844046 Los Angeles, CA. 90084-4046

Project Name: Commercial Building
 Project Start/End Date: 07/27/2015 / 07/27/2015
 Project Contact/Phone: /
 Work Site Address: 9th and Lenora
 Seattle, WA 98121

Customer Project#: 21138-001-03
 Customer PO:
 Additional Detail:

Billing Date: To:

Product	Description	UOM	Quantity	Rate	Extended Rate
Decommission Wells	Chip in Place (1)80-2" and (1) 17'6"-2" MW	Per Foot	97.00	\$6.00	\$582.00
Well Box	Cement Standard Well Box In Place	Each	2.00	\$50.00	\$100.00
Permits	Decommissioning	Each	2.00	\$35.00	\$70.00
Standby	To gain access	Per Hour	.50	\$250.00	\$125.00
Mob/Demob	Mobilization/Demobilization	Each	1.00	\$450.00	\$450.00
				Pre-Tax Total	\$1,327.00
				Tax Percentage	9.600%
				Taxes	\$127.39
				Invoice Total	<u>\$1,454.39</u>

As a courtesy, Cascade Drilling, LP and its subsidiaries allow Customers up to three days to approve this invoice. This invoice will be considered approved and final unless we hear from GeoEngineers - Redmond before the end of this period.



CASCADe DRILLING, L.P.
LEADERS IN SAFETY

CASCADe DRILLING DAILY WORK REPORT

19404 Woodinville Snohomish Rd NE, Woodinville, WA 98072
425-485-8908 # CASCADL91508

CLIENT <i>Geo-Engineers</i>		PROJECT NO		DATE <i>7-27-15</i>	DAY <i>MON</i>					
JOB LOCATION <i>Westlake & Lpova</i>		DIG ALERT #		CD-LP# <i>103-15-0857</i>						
Well #	Depth Bored	DESCRIPTION OF WORK Please explain reasons for Down Time and Standby Time and Shop Time			HOURS		Total Hrs	Charge Hrs		
					Start	Stop				
		AM Shop Time	<i>pre-trip, load W561</i>			<i>6:15</i>	<i>6:45</i>	<i>.5</i>		
		Travel to Site				<i>6:45</i>	<i>8:00</i>	<i>1.25</i>		
		<i>Gain access</i>			<i>8:00</i>	<i>8:30</i>	<i>.5</i>			
		<i>rip 2'x80' G-1 & 6"x17' MW-1</i>			<i>8:30</i>	<i>9:30</i>	<i>1</i>			
		<i>- Leave monuments in place.</i>								
		Travel to Shop				<i>9:30</i>	<i>10:30</i>	<i>1</i>		
		PM Shop Time	<i>post. unload W561</i>			<i>10:30</i>	<i>11:00</i>	<i>.5</i>		
Total Ft.		TOTAL CHARGEABLE RIG HOURS								
RIG ENGINE HOURS:		START	STOP			TOTAL				
EQUIPMENT				CASING		MATERIALS				
DRILL RIG #		COMPRESSOR/JACKHAMMER		TYPE SLOT	<i>3</i>	<i>4</i>	ITEM	QTY	ITEM	QTY
SUPPORT TRUCK #	<i>W561</i>	SNOW FENCE RENTAL		20' SCREEN			SAND		WELL COVER 8"	
SUPPORT TRUCK #		CONTINUOUS SAMPLER		10' SCREEN			READYMIX	<i>3</i>	WELL COVER 12"	
TRAILER #		CONTINUOUS SAMPLER FOOTAGE		5' SCREEN			QUICKSET		MONUMENT CASING	
BOBCAT		# OF CORE CUTS		20' BLANK			PORTLAND		BOLLARDS	
AUTO HAMMER		# OF BULLDOG CUTS		10' BLANK			ASPHALT		SOIL DRUMS	
GROUT MIXER		# OF SERVICE RUNS		5' BLANK			BENTONITE GROUT		DEVELOPMENT DRUMS	
GROUT PUMP		# OF SAW CUTS		5' PP SCREEN			BENTONITE CHIPS	<i>6</i>	DECON DRUMS	
PERISTALTIC PUMP		PORTABLE RESTROOM		10' PP SCREEN			BENTONITE POWDER		HOLE COVER PLATES	
FORKLIFT/HOPPER				SLIP CAP			BENTONITE PELLETS		PLASTIC SHEETING	
LABOR				THREADED CAPS			BENTONITE GRANULAR		TRAFFIC CONTROL	
NAME	SIGNATURE	SHOP	DRILL	TOTAL HRS	LOCKING CAPS		SAMPLER TUBES		CORE BOXES	
<i>Curtis A</i>	<i>[Signature]</i>			<i>4.75</i>	DRIVE SHOE		SHELBY TUBES		PLYWOOD	
					CENTRALIZERS		PROBE POINTS		SOIL SAMPLES	
					LOCKS		GW PROBE POINTS		WATER SAMPLES	
							MACRO LINERS		HYDRO PUNCH SAMPLES	
							SAMPLER SHOE		AUGER PLUGS	
CREW WITH PER DIEM		CHARGEABLE EXTRA LABOR HRS		UTILITIES FOUND OR HIT					DRILL OUT BITS	
REMARKS										



Client Signature _____

Operator Signature _____

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. AE33096

Construction/Decommission

Construction
 Decommission *ORIGINAL INSTALLATION* Notice of Intent Number _____

Type of Well

Resource Protection
 Geotechnical Soil Boring

Consulting Firm GeoEngineers

Property Owner 9th & Lenora Development
 Site Address Westlake Ave & Lenora St
 City Seattle County King

Unique Ecology Well ID

Tag No. _____

Location 1/4 NE 1/4 NE Sec 31 TWN 25N R 4E of EWM
 WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards

Materials used and the information reported above are true to my best knowledge and belief

Driller Trainee Name (Print) Curtis Askew
 Driller/Trainee Signature _____
 Driller/Trainee License No. 2867

Tax Parcel No. _____
 Cased or Uncased Diameter CIP 2" well Static Level 56'

Work/Decommission Start Date 7-27-15

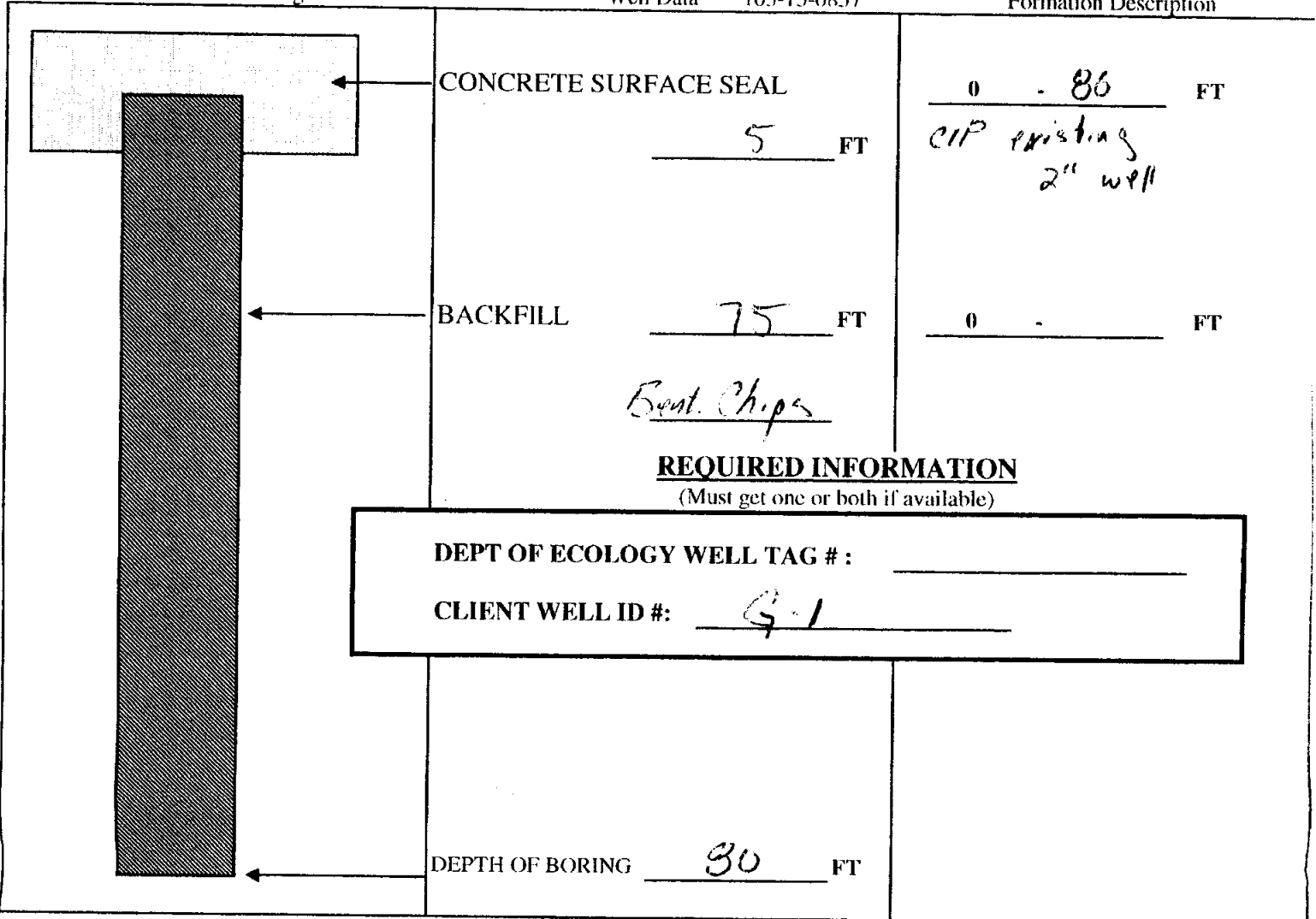
Work/Decommission Completed Date 7-27-15

If trainee, licensed drillers' Signature and License No. _____

Construction/Design

Well Data 103-15-0857

Formation Description



REQUIRED INFORMATION
 (Must get one or both if available)

DEPT OF ECOLOGY WELL TAG #: _____
 CLIENT WELL ID #: G-1

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. AE33096

Construction/Decommission

Construction
 Decommission *ORIGINAL INSTALLATION* Notice of Intent Number _____

Type of Well

Resource Protection
 Geotechnical Soil Boring

Consulting Firm GeoEngineers

Property Owner 9th & Lenora Development
 Site Address Westlake Ave & Lenora St
 City Seattle County King

Unique Ecology Well ID Tag No. _____

Location 1/4 NE 1/4 NE Sec 31 TWN 25N R 4E or EWM
 WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards

Lat/Long (s,t,r Lat Deg n/a Lat Min/Sec n/a
 still Required) Long Deg n/a Long Min/Sec n/a

Materials used and the information reported above are true to my best knowledge and belief

Driller Trainee Name (Print) Artis Askew
 Driller/Trainee Signature _____
 Driller/Trainee License No. 2867

Tax Parcel No. _____

Cased or Uncased Diameter CIP 6" well Static Level U

Work/Decommission Start Date 7-27-15

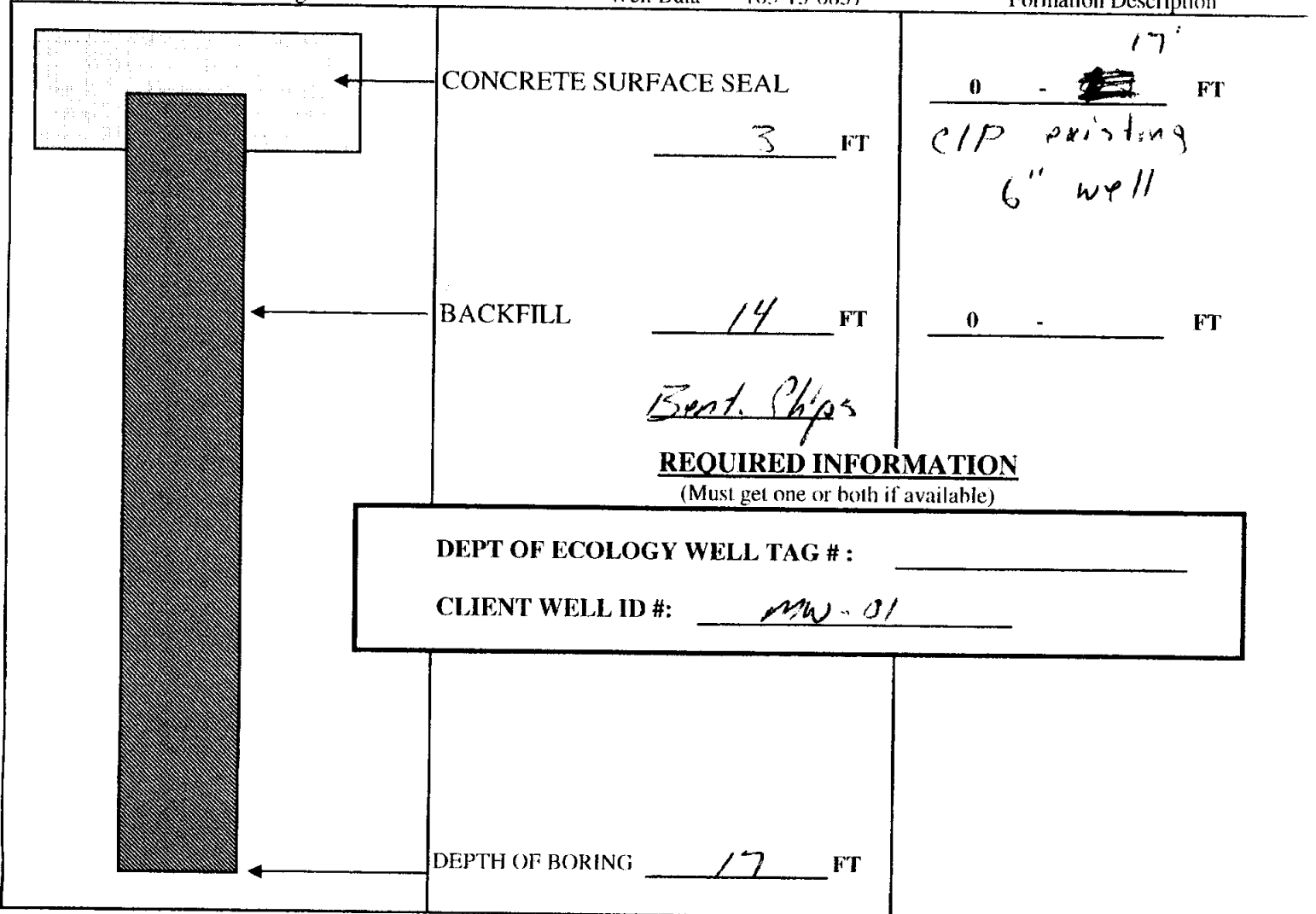
If trainee, licensed drillers' Signature and License No. _____

Work/Decommission Completed Date 7-27-15

Construction/Design

Well Data 103-15-0857

Formation Description



REQUIRED INFORMATION

(Must get one or both if available)

DEPT OF ECOLOGY WELL TAG #: _____
 CLIENT WELL ID #: MW-01

APPENDIX B
Cleanup Action Photographs



1. Contaminated fill soil in east portion of mass excavation - Looking North



2. Contaminated fill soil in north portion of mass excavation - Looking West



3. Contaminated fill soil excavation during construction - Looking Southeast



4. Non-contaminated soil underlying the contaminated fill soil excavated from the subject property - Looking North

Cleanup Action Photographs

Ninth and Lenora Property
Seattle, Washington



Appendix B



9. Monitoring wells decommissioning activities at the subject property



10. Concrete vault of former hydraulic hoist in central portion of subject property



11. Excavation of former elevator Shaft and hydraulic hoist – Looking South



12. Clean native soil at the former elevator shaft and hydraulic hoist location in central portion of the subject property – Looking Northeast

Cleanup Action Photographs

Ninth and Lenora Property
Seattle, Washington



Appendix B



5. View of former UST2 in southwest portion of the subject property - Looking South



6. UST2 was removed from the subject property - Looking West



7. Controlled Density Fill inside the former UST2 and associated contaminated soil prior to excavation - Looking West



8. Clean native soil following excavation of contaminated soil at the former UST2 location in southwest portion of the subject property - Looking South

Cleanup Action Photographs

Ninth and Lenora Property
Seattle, Washington



Appendix B



13. Former UST3 location in northeast portion of the subject property – Looking South



14. A small hole is visible in UST3 that was removed from the subject property



15. Contaminated soil at former UST2 location on the subject property



16. Clean native soil following excavation of contaminated soil at the former UST3 location – Looking North

Cleanup Action Photographs

Ninth and Lenora Property
Seattle, Washington



Appendix B

APPENDIX C
Chemical Analytical Program

APPENDIX C CHEMICAL ANALYTICAL PROGRAM

Analytical Methods

Chain-of-custody procedures were followed during the transport of the field samples to the analytical laboratory. The samples were held in cold storage pending extraction and/or analysis. The analytical results, analytical methods reference and laboratory quality control records are included in this appendix. The analytical results are also summarized in the text and tables of this report.

Analytical Data Review

The laboratory maintains an internal quality assurance program as documented in its laboratory quality assurance manual. The laboratory uses a combination of blanks, surrogate recoveries, duplicates, matrix spike recoveries, matrix spike duplicate recoveries, blank spike recoveries and blank spike duplicate recoveries to evaluate the validity of the analytical results. The laboratory also uses data quality goals for individual chemicals or groups of chemicals based on the long-term performance of the test methods. The data quality goals were included in the laboratory reports. The laboratory compared each group of samples with the existing data quality goals and noted any exceptions in the laboratory report.

Analytical Data Review Summary

Based on our review of the analytical data, it is our opinion that the analytical data are of acceptable quality for their intended use.



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 29, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03, T300
Laboratory Reference No. 1504-253

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on April 28, 2015.

Please note that this is a *revised* report, and replaces the original due to revisions of the sample identifications.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: April 29, 2015
Samples Submitted: April 28, 2015
Laboratory Reference: 1504-253
Project: 21138-001-03, T300

Case Narrative

Samples were collected on April 28, 2015 and received by the laboratory on April 28, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA method 5035A, samples were received by the laboratory in pre-weighed 40 ml VOA vials preserved with either Methanol or Sodium Bisulfate.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: April 29, 2015
Samples Submitted: April 28, 2015
Laboratory Reference: 1504-253
Project: 21138-001-03, T300

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UTL9-S-5.0	04-253-02	Soil	4-28-15	4-28-15	
UTL9-N-5.0	04-253-04	Soil	4-28-15	4-28-15	

Date of Report: April 29, 2015
 Samples Submitted: April 28, 2015
 Laboratory Reference: 1504-253
 Project: 21138-001-03, T300

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UTL9-S-5.0					
Laboratory ID:	04-253-02					
Benzene	ND	0.020	EPA 8021B	4-28-15	4-28-15	
Toluene	ND	0.064	EPA 8021B	4-28-15	4-28-15	
Ethyl Benzene	ND	0.064	EPA 8021B	4-28-15	4-28-15	
m,p-Xylene	ND	0.064	EPA 8021B	4-28-15	4-28-15	
o-Xylene	ND	0.064	EPA 8021B	4-28-15	4-28-15	
Gasoline	ND	6.4	NWTPH-Gx	4-28-15	4-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>121</i>	<i>68-123</i>				
Client ID:	UTL9-N-5.0					
Laboratory ID:	04-253-04					
Benzene	ND	0.020	EPA 8021B	4-28-15	4-28-15	
Toluene	ND	0.055	EPA 8021B	4-28-15	4-28-15	
Ethyl Benzene	ND	0.055	EPA 8021B	4-28-15	4-28-15	
m,p-Xylene	ND	0.055	EPA 8021B	4-28-15	4-28-15	
o-Xylene	ND	0.055	EPA 8021B	4-28-15	4-28-15	
Gasoline	ND	5.5	NWTPH-Gx	4-28-15	4-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>121</i>	<i>68-123</i>				

Date of Report: April 29, 2015
 Samples Submitted: April 28, 2015
 Laboratory Reference: 1504-253
 Project: 21138-001-03, T300

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0428S1					
Benzene	ND	0.020	EPA 8021B	4-28-15	4-28-15	
Toluene	ND	0.050	EPA 8021B	4-28-15	4-28-15	
Ethyl Benzene	ND	0.050	EPA 8021B	4-28-15	4-28-15	
m,p-Xylene	ND	0.050	EPA 8021B	4-28-15	4-28-15	
o-Xylene	ND	0.050	EPA 8021B	4-28-15	4-28-15	
Gasoline	ND	5.0	NWTPH-Gx	4-28-15	4-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	87	68-123				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-253-02							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				121	121	68-123		

SPIKE BLANKS

Laboratory ID:	SB0428S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.917	0.957	1.00	1.00	92	96	75-117	4	13
Toluene	0.934	0.971	1.00	1.00	93	97	78-118	4	12
Ethyl Benzene	0.934	0.970	1.00	1.00	93	97	78-118	4	12
m,p-Xylene	0.955	0.983	1.00	1.00	96	98	78-121	3	13
o-Xylene	0.946	0.982	1.00	1.00	95	98	77-119	4	13
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					88	90	68-123		

Date of Report: April 29, 2015
Samples Submitted: April 28, 2015
Laboratory Reference: 1504-253
Project: 21138-001-03, T300

% MOISTURE

Date Analyzed: 4-28-15

Client ID	Lab ID	% Moisture
UTL9-S-5.0	04-253-02	13
UTL9-N-5.0	04-253-04	14



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 30, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1504-270

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on April 29, 2015.

Please note that this is a *revised* report, and replaces the original due to revisions of the sample identifications.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: April 30, 2015
Samples Submitted: April 29, 2015
Laboratory Reference: 1504-270
Project: 21138-001-03

Case Narrative

Samples were collected on April 29, 2015 and received by the laboratory on April 29, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA method 5035A, samples were received by the laboratory in pre-weighed 40 ml VOA vials preserved with either Methanol or Sodium Bisulfate.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: April 30, 2015
Samples Submitted: April 29, 2015
Laboratory Reference: 1504-270
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UTL9-S-15.0	04-270-01	Soil	4-29-15	4-29-15	
UTL9-S-20.0	04-270-02	Soil	4-29-15	4-29-15	
UTL9-S-23.0	04-270-03	Soil	4-29-15	4-29-15	

Date of Report: April 30, 2015
 Samples Submitted: April 29, 2015
 Laboratory Reference: 1504-270
 Project: 21138-001-03

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UTL9-S-15.0					
Laboratory ID:	04-270-01					
Benzene	0.022	0.020	EPA 8021B	4-29-15	4-29-15	
Toluene	ND	0.049	EPA 8021B	4-29-15	4-29-15	
Ethyl Benzene	ND	0.049	EPA 8021B	4-29-15	4-29-15	
m,p-Xylene	0.057	0.049	EPA 8021B	4-29-15	4-29-15	
o-Xylene	ND	0.049	EPA 8021B	4-29-15	4-29-15	
Gasoline	ND	4.9	NWTPH-Gx	4-29-15	4-29-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	119	68-123				
Client ID:	UTL9-S-20.0					
Laboratory ID:	04-270-02					
Benzene	0.029	0.020	EPA 8021B	4-29-15	4-29-15	
Toluene	ND	0.050	EPA 8021B	4-29-15	4-29-15	
Ethyl Benzene	ND	0.050	EPA 8021B	4-29-15	4-29-15	
m,p-Xylene	0.084	0.050	EPA 8021B	4-29-15	4-29-15	
o-Xylene	0.080	0.050	EPA 8021B	4-29-15	4-29-15	
Gasoline	ND	5.0	NWTPH-Gx	4-29-15	4-29-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	121	68-123				
Client ID:	UTL9-S-23.0					
Laboratory ID:	04-270-03					
Benzene	ND	0.020	EPA 8021B	4-29-15	4-29-15	
Toluene	ND	0.053	EPA 8021B	4-29-15	4-29-15	
Ethyl Benzene	ND	0.053	EPA 8021B	4-29-15	4-29-15	
m,p-Xylene	ND	0.053	EPA 8021B	4-29-15	4-29-15	
o-Xylene	ND	0.053	EPA 8021B	4-29-15	4-29-15	
Gasoline	ND	5.3	NWTPH-Gx	4-29-15	4-29-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	116	68-123				

Date of Report: April 30, 2015
 Samples Submitted: April 29, 2015
 Laboratory Reference: 1504-270
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UTL9-S-15.0					
Laboratory ID:	04-270-01					
Diesel Range Organics	ND	29	NWTPH-Dx	4-29-15	4-29-15	
Lube Oil Range Organics	ND	57	NWTPH-Dx	4-29-15	4-29-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	87	50-150				
Client ID:	UTL9-S-23.0					
Laboratory ID:	04-270-03					
Diesel Range Organics	ND	28	NWTPH-Dx	4-29-15	4-29-15	
Lube Oil Range Organics	ND	56	NWTPH-Dx	4-29-15	4-29-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				

Date of Report: April 30, 2015
 Samples Submitted: April 29, 2015
 Laboratory Reference: 1504-270
 Project: 21138-001-03

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429S1					
Benzene	ND	0.020	EPA 8021B	4-29-15	4-29-15	
Toluene	ND	0.050	EPA 8021B	4-29-15	4-29-15	
Ethyl Benzene	ND	0.050	EPA 8021B	4-29-15	4-29-15	
m,p-Xylene	ND	0.050	EPA 8021B	4-29-15	4-29-15	
o-Xylene	ND	0.050	EPA 8021B	4-29-15	4-29-15	
Gasoline	ND	5.0	NWTPH-Gx	4-29-15	4-29-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	88	68-123				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-254-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				93	93	68-123		

MATRIX SPIKES

Laboratory ID:	04-254-12									
	MS	MSD	MS	MSD	MS	MSD				
Benzene	0.848	0.950	1.00	1.00	ND	85	95	71-122	11	21
Toluene	0.870	0.960	1.00	1.00	ND	87	96	77-124	10	17
Ethyl Benzene	0.877	0.969	1.00	1.00	ND	88	97	77-121	10	19
m,p-Xylene	0.890	0.969	1.00	1.00	ND	89	97	78-124	8	19
o-Xylene	0.882	0.967	1.00	1.00	ND	88	97	75-117	9	13
<i>Surrogate:</i>										
<i>Fluorobenzene</i>						96	94	68-123		

Date of Report: April 30, 2015
 Samples Submitted: April 29, 2015
 Laboratory Reference: 1504-270
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429S1					
Diesel Range Organics	ND	25	NWTPH-Dx	4-29-15	4-29-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	4-29-15	4-29-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>84</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-256-03							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				<i>81</i>	<i>82</i>	<i>50-150</i>		

Date of Report: April 30, 2015
Samples Submitted: April 29, 2015
Laboratory Reference: 1504-270
Project: 21138-001-03

% MOISTURE

Date Analyzed: 4-29-15

Client ID	Lab ID	% Moisture
UTL9-S-15.0	04-270-01	12
UTL9-S-20.0	04-270-02	12
UTL9-S-23.0	04-270-03	11



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



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 Analytical Laboratory Testing Services
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 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

- Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 (TPH analysis 5 Days)
 _____ (other)

Laboratory Number: **04-270**

Company: **GEODENGINEERS**
 Project Number: **21138-001-03**
 Project Name: **9K LENDRA PROJECT**
 Project Manager: **FASIH KHAN**
 Sampled by: **FASIH KHAN**

Lab ID: **UTL9-S-15.0** Sample Identification: **0751** Date Sampled: **4/29/15** Time Sampled: **0930** Matrix: **S**

2 **UTL9-S-15.0** **1000** **S** **2** **2**

3 **UTL9-S-18.0** **1025** **S** **2**

Number of Containers	
NWTPH-HCID	
NWTPH-Gx/BTEX	<input checked="" type="checkbox"/>
NWTPH-Gx	<input checked="" type="checkbox"/>
NWTPH-Dx	<input checked="" type="checkbox"/>
Volatiles 8260C	
Halogenated Volatiles 8260C	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
% Moisture	

Signature	Company	Date	Time	Comments/Special Instructions
	GET CORE	4/29/15	1240	Results by 1000 a.m on 4/30/15.
		4/29/15	1240	
Received				
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Reviewed/Date				



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May 1, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1504-279

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on April 29, 2015.

Please note that this is a *revised* report, and replaces the original due to revisions of the sample identifications.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 1, 2015
Samples Submitted: April 29, 2015
Laboratory Reference: 1504-279
Project: 21138-001-03

Case Narrative

Samples were collected on April 29, 2015 and received by the laboratory on April 29, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA method 5035A, samples were received by the laboratory in pre-weighed 40 ml VOA vials preserved with either Methanol or Sodium Bisulfate.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: May 1, 2015
Samples Submitted: April 29, 2015
Laboratory Reference: 1504-279
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UTL9-N-18.0	04-279-03	Soil	4-29-15	4-29-15	
UTL9-E-15.0	04-279-06	Soil	4-29-15	4-29-15	
UTL9-E-18.0	04-279-07	Soil	4-29-15	4-29-15	

Date of Report: May 1, 2015
 Samples Submitted: April 29, 2015
 Laboratory Reference: 1504-279
 Project: 21138-001-03

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UTL9-N-18.0					
Laboratory ID:	04-279-03					
Benzene	ND	0.020	EPA 8021B	4-30-15	4-30-15	
Toluene	ND	0.059	EPA 8021B	4-30-15	4-30-15	
Ethyl Benzene	ND	0.059	EPA 8021B	4-30-15	4-30-15	
m,p-Xylene	ND	0.059	EPA 8021B	4-30-15	4-30-15	
o-Xylene	ND	0.059	EPA 8021B	4-30-15	4-30-15	
Gasoline	ND	5.9	NWTPH-Gx	4-30-15	4-30-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>109</i>	<i>68-123</i>				
Client ID:	UTL9-E-15.0					
Laboratory ID:	04-279-06					
Benzene	0.060	0.020	EPA 8021B	4-30-15	4-30-15	
Toluene	ND	0.060	EPA 8021B	4-30-15	4-30-15	
Ethyl Benzene	ND	0.060	EPA 8021B	4-30-15	4-30-15	
m,p-Xylene	ND	0.060	EPA 8021B	4-30-15	4-30-15	
o-Xylene	ND	0.060	EPA 8021B	4-30-15	4-30-15	
Gasoline	ND	6.0	NWTPH-Gx	4-30-15	4-30-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>110</i>	<i>68-123</i>				
Client ID:	UTL9-E-18.0					
Laboratory ID:	04-279-07					
Benzene	0.052	0.020	EPA 8021B	4-30-15	4-30-15	
Toluene	ND	0.065	EPA 8021B	4-30-15	4-30-15	
Ethyl Benzene	ND	0.065	EPA 8021B	4-30-15	4-30-15	
m,p-Xylene	ND	0.065	EPA 8021B	4-30-15	4-30-15	
o-Xylene	ND	0.065	EPA 8021B	4-30-15	4-30-15	
Gasoline	50	6.5	NWTPH-Gx	4-30-15	4-30-15	O
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>111</i>	<i>68-123</i>				

Date of Report: May 1, 2015
 Samples Submitted: April 29, 2015
 Laboratory Reference: 1504-279
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UTL9-N-18.0					
Laboratory ID:	04-279-03					
Diesel Range Organics	180	150	NWTPH-Dx	4-29-15	4-30-15	N
Lube Oil	1700	300	NWTPH-Dx	4-29-15	4-30-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				
Client ID:	UTL9-E-15.0					
Laboratory ID:	04-279-06					
Diesel Range Organics	34	30	NWTPH-Dx	4-29-15	4-29-15	
Lube Oil Range Organics	ND	59	NWTPH-Dx	4-29-15	4-29-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	77	50-150				

Date of Report: May 1, 2015
 Samples Submitted: April 29, 2015
 Laboratory Reference: 1504-279
 Project: 21138-001-03

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0430S1					
Benzene	ND	0.020	EPA 8021B	4-30-15	4-30-15	
Toluene	ND	0.050	EPA 8021B	4-30-15	4-30-15	
Ethyl Benzene	ND	0.050	EPA 8021B	4-30-15	4-30-15	
m,p-Xylene	ND	0.050	EPA 8021B	4-30-15	4-30-15	
o-Xylene	ND	0.050	EPA 8021B	4-30-15	4-30-15	
Gasoline	ND	5.0	NWTPH-Gx	4-30-15	4-30-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	87	68-123				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-279-03							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				109	116	68-123		

SPIKE BLANKS

Laboratory ID:	SB0430S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.947	0.940	1.00	1.00	95	94	75-117	1	13
Toluene	0.952	0.947	1.00	1.00	95	95	78-118	1	12
Ethyl Benzene	0.952	0.950	1.00	1.00	95	95	78-118	0	12
m,p-Xylene	0.956	0.960	1.00	1.00	96	96	78-121	0	13
o-Xylene	0.953	0.959	1.00	1.00	95	96	77-119	1	13
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					90	90	68-123		

Date of Report: May 1, 2015
 Samples Submitted: April 29, 2015
 Laboratory Reference: 1504-279
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429S1					
Diesel Range Organics	ND	25	NWTPH-Dx	4-29-15	4-29-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	4-29-15	4-29-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>84</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-279-06							
	ORIG	DUP						
Diesel Range Organics	29.1	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				<i>77</i>	<i>78</i>	<i>50-150</i>		

Date of Report: May 1, 2015
Samples Submitted: April 29, 2015
Laboratory Reference: 1504-279
Project: 21138-001-03

% MOISTURE

Date Analyzed: 4-29&30-15

Client ID	Lab ID	% Moisture
UTL9-N-18.0	04-279-03	16
UTL9-E-15.0	04-279-06	15
UTL9-E-18.0	04-279-07	20



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



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Chain of Custody

Turnaround Request
(in working days)
(Check One)

Laboratory Number: **04-279**

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

(other)

Company: GEDENGINEERS

Project Number: 21138-061-03

Project Name: 9th & LENORA PROJECT

Project Manager: FASIH KHAN

Sampled by: FASIH KHAN

Lab ID: UTL9-~~14~~-10.0

Date Sampled: 4/29/15

Number of Containers

<input type="checkbox"/>	NWTPH-HCID
<input type="checkbox"/>	NWTPH-Gx/BTEX
<input type="checkbox"/>	NWTPH-Gx
<input type="checkbox"/>	NWTPH-Dx
<input type="checkbox"/>	Volatiles 8260C
<input type="checkbox"/>	Halogenated Volatiles 8260C
<input type="checkbox"/>	Semivolatiles 8270D/SIM (with low-level PAHs)
<input type="checkbox"/>	PAHs 8270D/SIM (low-level)
<input type="checkbox"/>	PCBs 8082A
<input type="checkbox"/>	Organochlorine Pesticides 8081B
<input type="checkbox"/>	Organophosphorus Pesticides 8270D/SIM
<input type="checkbox"/>	Chlorinated Acid Herbicides 8151A
<input type="checkbox"/>	Total RCRA Metals
<input type="checkbox"/>	Total MTCA Metals
<input type="checkbox"/>	TCLP Metals
<input type="checkbox"/>	HEM (oil and grease) 1664A

H O L D

% Moisture

1 UTL9-~~14~~-10.0

4/29/15 8:00

5

2

2 UTL9-~~14~~-15.0

13:20

5

1

3 UTL9-~~14~~-18.0

13:40

5

1

4 UTL9-~~14~~-25.0

13:50

5

1

5 UTL9-E-10.0

14:00

5

1

6 UTL9-E-15.0

14:10

5

1

7 UTL9-E-18.0

14:20

5

1

Signature

Company

Date

Time

Comments/Special Instructions

[Signature]

GET

4/29/15

16:30

0-Added 4/30/15.03 (Same Day)

[Signature]

0875

4/29/15

16:30

Relinquished

Received

Received

Reviewed/Date

Reviewed/Date

Chromatograms with final report

Data Package: Standard Level III Level IV

Electronic Data Deliverables (EDDs)



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 6, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1505-024

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on May 5, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: May 6, 2015
Samples Submitted: May 5, 2015
Laboratory Reference: 1505-024
Project: 21138-001-03

Case Narrative

Samples were collected on May 5, 2015 and received by the laboratory on May 5, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA method 5035A, samples were received by the laboratory in pre-weighed 40 ml VOA vials preserved with either Methanol or Sodium Bisulfate.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: May 6, 2015
Samples Submitted: May 5, 2015
Laboratory Reference: 1505-024
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UTL9-S-30.0	05-024-01	Soil	5-5-15	5-5-15	

Date of Report: May 6, 2015
 Samples Submitted: May 5, 2015
 Laboratory Reference: 1505-024
 Project: 21138-001-03

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UTL9-S-30.0					
Laboratory ID:	05-024-01					
Benzene	ND	0.020	EPA 8021B	5-5-15	5-5-15	
Toluene	ND	0.086	EPA 8021B	5-5-15	5-5-15	
Ethyl Benzene	ND	0.086	EPA 8021B	5-5-15	5-5-15	
m,p-Xylene	ND	0.086	EPA 8021B	5-5-15	5-5-15	
o-Xylene	ND	0.086	EPA 8021B	5-5-15	5-5-15	
Gasoline	ND	8.6	NWTPH-Gx	5-5-15	5-5-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>123</i>	<i>68-123</i>				

Date of Report: May 6, 2015
 Samples Submitted: May 5, 2015
 Laboratory Reference: 1505-024
 Project: 21138-001-03

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0505S1					
Benzene	ND	0.020	EPA 8021B	5-5-15	5-5-15	
Toluene	ND	0.050	EPA 8021B	5-5-15	5-5-15	
Ethyl Benzene	ND	0.050	EPA 8021B	5-5-15	5-5-15	
m,p-Xylene	ND	0.050	EPA 8021B	5-5-15	5-5-15	
o-Xylene	ND	0.050	EPA 8021B	5-5-15	5-5-15	
Gasoline	ND	5.0	NWTPH-Gx	5-5-15	5-5-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	68-123				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-024-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				123	123	68-123		

SPIKE BLANKS

Laboratory ID:	SB0505S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.964	0.956	1.00	1.00	96	96	75-117	1	13
Toluene	0.941	0.960	1.00	1.00	94	96	78-118	2	12
Ethyl Benzene	0.961	0.962	1.00	1.00	96	96	78-118	0	12
m,p-Xylene	0.969	0.964	1.00	1.00	97	96	78-121	1	13
o-Xylene	0.949	0.964	1.00	1.00	95	96	77-119	2	13
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					89	91	68-123		

Date of Report: May 6, 2015
Samples Submitted: May 5, 2015
Laboratory Reference: 1505-024
Project: 21138-001-03

% MOISTURE

Date Analyzed: 5-5-15

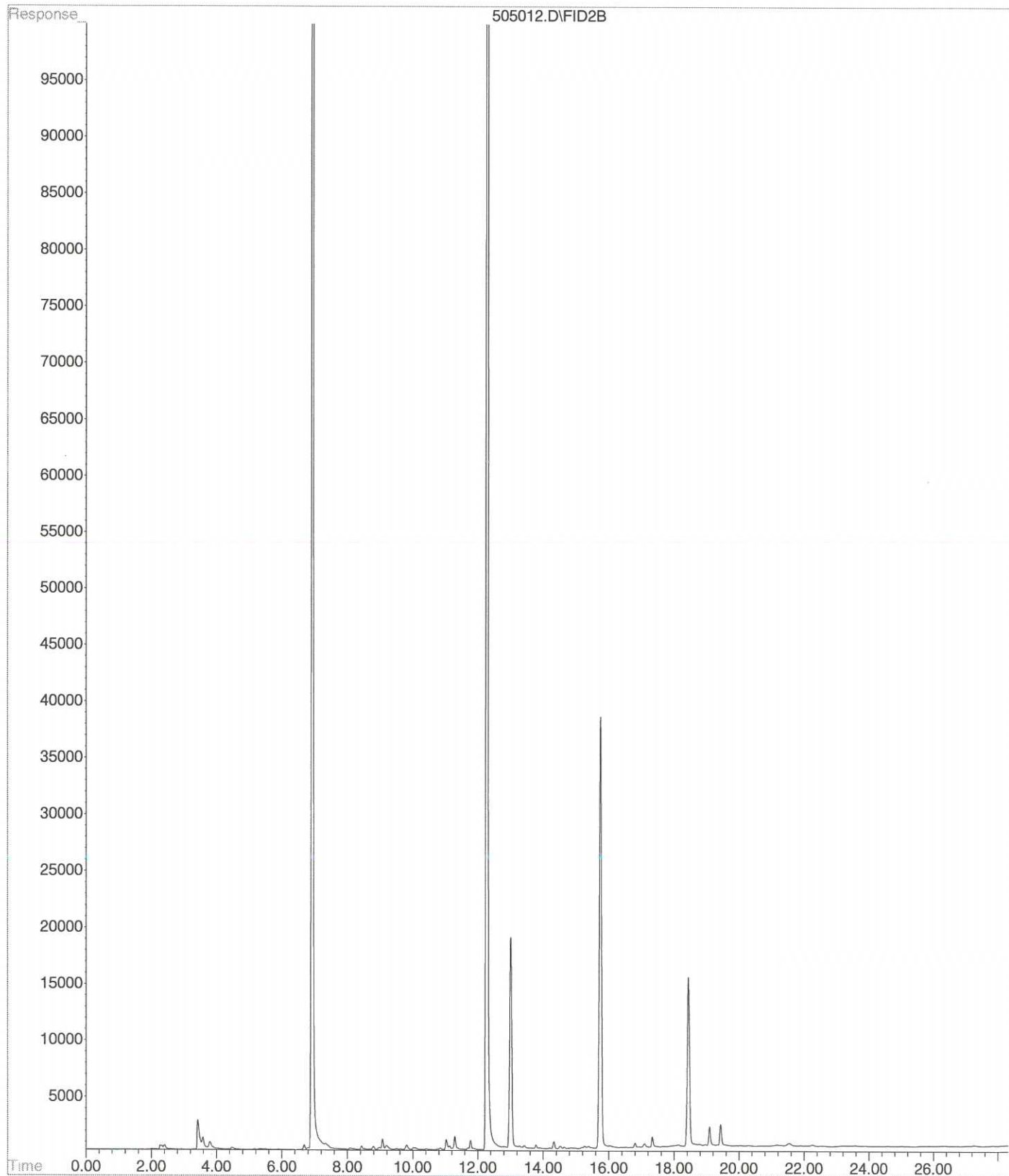
Client ID	Lab ID	% Moisture
UTL9-S-30.0	05-024-01	21



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

File : X:\BTEX\DARYL\DATA\D150505\505012.D
Operator :
Acquired : 5 May 2015 16:25 using AcqMethod 150327B.M
Instrument : Daryl
Sample Name: 05-024-01s
Misc Info : V2-36-17
Vial Number: 12





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July 29, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1507-215

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on July 27, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: July 29, 2015
Samples Submitted: July 27, 2015
Laboratory Reference: 1507-215
Project: 21138-001-03

Case Narrative

Samples were collected on July 27, 2015 and received by the laboratory on July 27, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: July 29, 2015
Samples Submitted: July 27, 2015
Laboratory Reference: 1507-215
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-1-18.0	07-215-01	Soil	7-27-15	7-27-15	

Date of Report: July 29, 2015
 Samples Submitted: July 27, 2015
 Laboratory Reference: 1507-215
 Project: 21138-001-03

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EX-1-18.0					
Laboratory ID:	07-215-01					
Benzene	ND	0.020	EPA 8021B	7-28-15	7-28-15	
Toluene	ND	0.061	EPA 8021B	7-28-15	7-28-15	
Ethyl Benzene	ND	0.061	EPA 8021B	7-28-15	7-28-15	
m,p-Xylene	ND	0.061	EPA 8021B	7-28-15	7-28-15	
o-Xylene	ND	0.061	EPA 8021B	7-28-15	7-28-15	
Gasoline	ND	6.1	NWTPH-Gx	7-28-15	7-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	95	68-123				

Date of Report: July 29, 2015
 Samples Submitted: July 27, 2015
 Laboratory Reference: 1507-215
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EX-1-18.0					
Laboratory ID:	07-215-01					
Diesel Range Organics	ND	28	NWTPH-Dx	7-28-15	7-28-15	
Lube Oil	68	56	NWTPH-Dx	7-28-15	7-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	97	50-150				

Date of Report: July 29, 2015
 Samples Submitted: July 27, 2015
 Laboratory Reference: 1507-215
 Project: 21138-001-03

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0728S1					
Benzene	ND	0.020	EPA 8021B	7-28-15	7-28-15	
Toluene	ND	0.050	EPA 8021B	7-28-15	7-28-15	
Ethyl Benzene	ND	0.050	EPA 8021B	7-28-15	7-28-15	
m,p-Xylene	ND	0.050	EPA 8021B	7-28-15	7-28-15	
o-Xylene	ND	0.050	EPA 8021B	7-28-15	7-28-15	
Gasoline	ND	5.0	NWTPH-Gx	7-28-15	7-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	88	68-123				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	07-072-04							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				102	120	68-123		

SPIKE BLANKS

Laboratory ID:	SB0728S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.992	1.04	1.00	1.00	99	104	75-117	5	13
Toluene	0.978	1.02	1.00	1.00	98	102	78-118	4	12
Ethyl Benzene	0.965	1.00	1.00	1.00	97	100	78-118	4	12
m,p-Xylene	0.976	1.02	1.00	1.00	98	102	78-121	4	13
o-Xylene	0.967	1.01	1.00	1.00	97	101	77-119	4	13
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					88	92	68-123		

Date of Report: July 29, 2015
 Samples Submitted: July 27, 2015
 Laboratory Reference: 1507-215
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0728S2					
Diesel Range Organics	ND	25	NWTPH-Dx	7-28-15	7-28-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	7-28-15	7-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	07-194-05							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				93	97	50-150		

Date of Report: July 29, 2015
Samples Submitted: July 27, 2015
Laboratory Reference: 1507-215
Project: 21138-001-03

% MOISTURE

Date Analyzed: 7-28-15

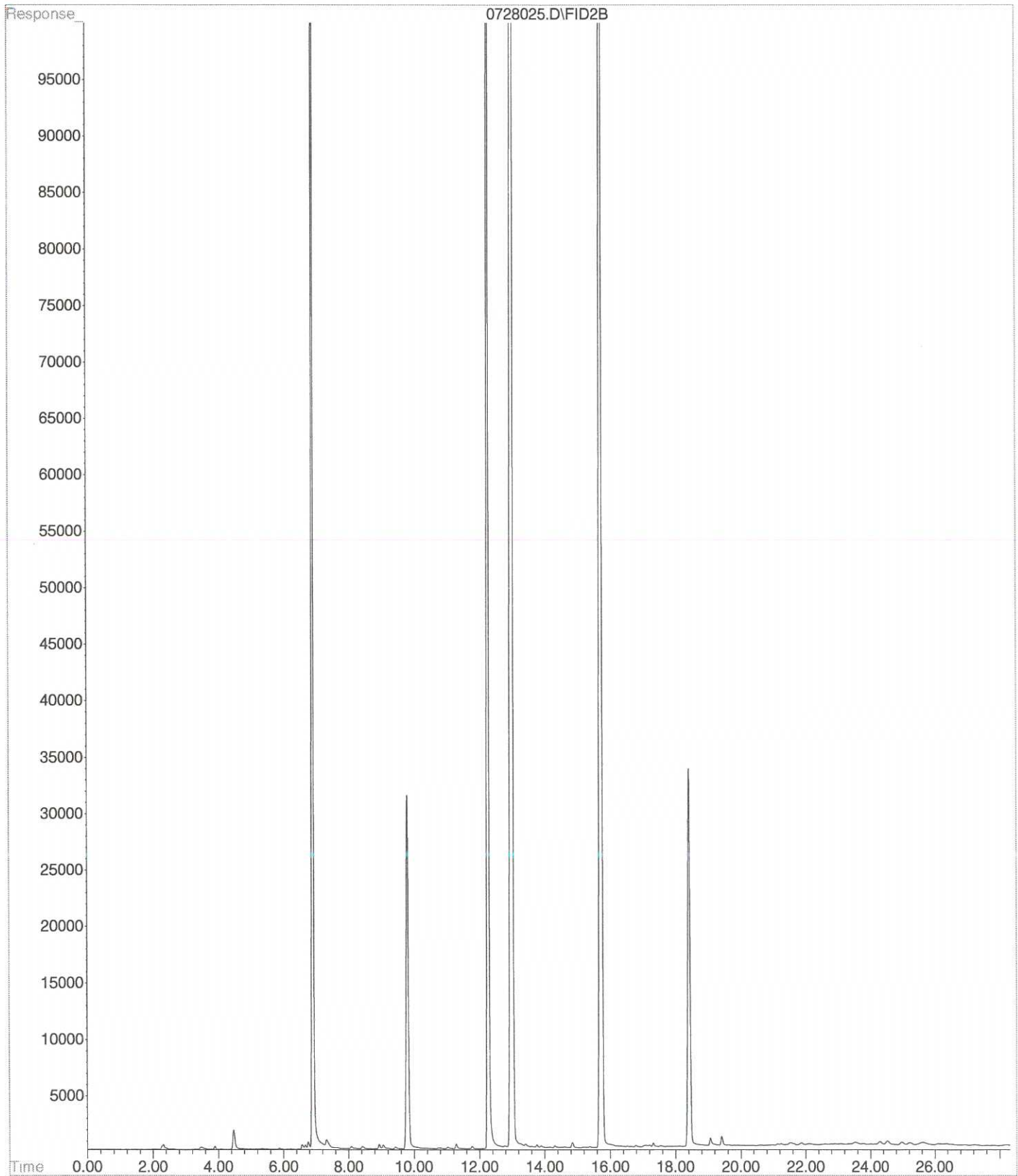
Client ID	Lab ID	% Moisture
EX-1-18.0	07-215-01	10



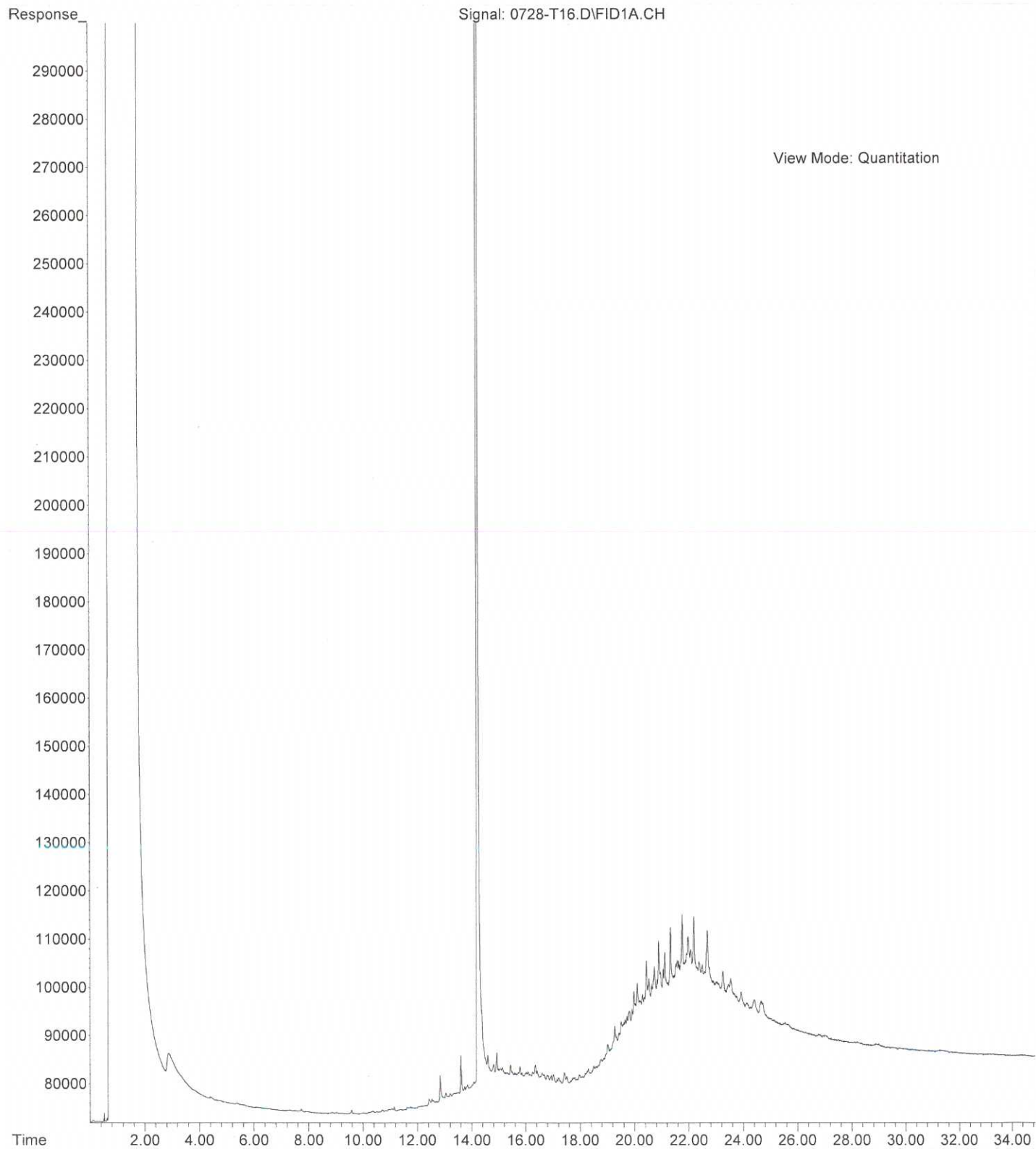
Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

File : D:\BTEX\DATA\D150728\0728025.D
Operator :
Acquired : 29 Jul 2015 00:05 using AcqMethod 150709B.M
Instrument : Daryl
Sample Name: 07-215-01s
Misc Info :
Vial Number: 25



File :X:\DIESELS\TERI\DATA\T150728\0728-T16.D
Operator : ZT
Acquired : 29 Jul 2015 10:23 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 07-215-01 RR
Misc Info :
Vial Number: 16





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August 3, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1507-206

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on July 24, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 3, 2015
Samples Submitted: July 24, 2015
Laboratory Reference: 1507-206
Project: 21138-001-03

Case Narrative

Samples were collected on July 24, 2015 and received by the laboratory on July 24, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA method 5035A, samples were received by the laboratory in pre-weighed 40 ml VOA vials preserved with either Methanol or Sodium Bisulfate.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: August 3, 2015
Samples Submitted: July 24, 2015
Laboratory Reference: 1507-206
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS-1	07-206-01	Soil	7-24-15	7-24-15	
SS-2	07-206-02	Soil	7-24-15	7-24-15	
SS-3	07-206-03	Soil	7-24-15	7-24-15	
SS-4	07-206-04	Soil	7-24-15	7-24-15	
EX-1-12.0	07-206-05	Soil	7-24-15	7-24-15	

Date of Report: August 3, 2015
 Samples Submitted: July 24, 2015
 Laboratory Reference: 1507-206
 Project: 21138-001-03

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EX-1-12.0					
Laboratory ID:	07-206-05					
Benzene	ND	0.020	EPA 8021B	7-28-15	7-29-15	
Toluene	ND	0.059	EPA 8021B	7-28-15	7-29-15	
Ethyl Benzene	ND	0.059	EPA 8021B	7-28-15	7-29-15	
m,p-Xylene	ND	0.059	EPA 8021B	7-28-15	7-29-15	
o-Xylene	ND	0.059	EPA 8021B	7-28-15	7-29-15	
Gasoline	ND	5.9	NWTPH-Gx	7-28-15	7-29-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	120	68-123				

Date of Report: August 3, 2015
 Samples Submitted: July 24, 2015
 Laboratory Reference: 1507-206
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-1					
Laboratory ID:	07-206-01					
Diesel Range Organics	56	33	NWTPH-Dx	7-27-15	7-28-15	
Lube Oil Range Organics	350	67	NWTPH-Dx	7-27-15	7-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	57	50-150				
Client ID:	SS-2					
Laboratory ID:	07-206-02					
Diesel Range Organics	44	29	NWTPH-Dx	7-27-15	7-27-15	
Lube Oil Range Organics	210	58	NWTPH-Dx	7-27-15	7-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	65	50-150				
Client ID:	SS-3					
Laboratory ID:	07-206-03					
Diesel Range Organics	74	32	NWTPH-Dx	7-27-15	7-28-15	
Lube Oil Range Organics	650	65	NWTPH-Dx	7-27-15	7-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	74	50-150				
Client ID:	SS-4					
Laboratory ID:	07-206-04					
Diesel Range Organics	70	30	NWTPH-Dx	7-27-15	7-27-15	
Lube Oil Range Organics	380	59	NWTPH-Dx	7-27-15	7-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	65	50-150				
Client ID:	EX-1-12.0					
Laboratory ID:	07-206-05					
Diesel Range Organics	ND	27	NWTPH-Dx	7-27-15	7-27-15	
Lube Oil Range Organics	ND	55	NWTPH-Dx	7-27-15	7-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	61	50-150				

Date of Report: August 3, 2015
 Samples Submitted: July 24, 2015
 Laboratory Reference: 1507-206
 Project: 21138-001-03

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-1					
Laboratory ID:	07-206-01					
Benzo[a]anthracene	0.048	0.0089	EPA 8270D/SIM	7-29-15	7-30-15	
Chrysene	0.049	0.0089	EPA 8270D/SIM	7-29-15	7-30-15	
Benzo[b]fluoranthene	0.043	0.0089	EPA 8270D/SIM	7-29-15	7-30-15	
Benzo(j,k)fluoranthene	0.013	0.0089	EPA 8270D/SIM	7-29-15	7-30-15	
Benzo[a]pyrene	0.041	0.0089	EPA 8270D/SIM	7-29-15	7-30-15	
Indeno(1,2,3-c,d)pyrene	0.026	0.0089	EPA 8270D/SIM	7-29-15	7-30-15	
Dibenz[a,h]anthracene	ND	0.0089	EPA 8270D/SIM	7-29-15	7-30-15	
Benzo[g,h,i]perylene	0.031	0.0089	EPA 8270D/SIM	7-29-15	7-30-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>67</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>59</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>74</i>	<i>31 - 116</i>				

Date of Report: August 3, 2015
 Samples Submitted: July 24, 2015
 Laboratory Reference: 1507-206
 Project: 21138-001-03

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-2					
Laboratory ID:	07-206-02					
Benzo[a]anthracene	0.38	0.0077	EPA 8270D/SIM	7-29-15	7-31-15	
Chrysene	0.35	0.0077	EPA 8270D/SIM	7-29-15	7-31-15	
Benzo[b]fluoranthene	0.35	0.0077	EPA 8270D/SIM	7-29-15	7-31-15	
Benzo(j,k)fluoranthene	0.12	0.0077	EPA 8270D/SIM	7-29-15	7-31-15	
Benzo[a]pyrene	0.33	0.0077	EPA 8270D/SIM	7-29-15	7-31-15	
Indeno(1,2,3-c,d)pyrene	0.19	0.0077	EPA 8270D/SIM	7-29-15	7-31-15	
Dibenz[a,h]anthracene	0.050	0.0077	EPA 8270D/SIM	7-29-15	7-31-15	
Benzo[g,h,i]perylene	0.18	0.0077	EPA 8270D/SIM	7-29-15	7-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>77</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>74</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>95</i>	<i>31 - 116</i>				

Date of Report: August 3, 2015
 Samples Submitted: July 24, 2015
 Laboratory Reference: 1507-206
 Project: 21138-001-03

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-3					
Laboratory ID:	07-206-03					
Benzo[a]anthracene	0.010	0.0086	EPA 8270D/SIM	7-29-15	7-31-15	
Chrysene	0.010	0.0086	EPA 8270D/SIM	7-29-15	7-31-15	
Benzo[b]fluoranthene	0.010	0.0086	EPA 8270D/SIM	7-29-15	7-31-15	
Benzo(j,k)fluoranthene	ND	0.0086	EPA 8270D/SIM	7-29-15	7-31-15	
Benzo[a]pyrene	ND	0.0086	EPA 8270D/SIM	7-29-15	7-31-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0086	EPA 8270D/SIM	7-29-15	7-31-15	
Dibenz[a,h]anthracene	ND	0.0086	EPA 8270D/SIM	7-29-15	7-31-15	
Benzo[g,h,i]perylene	ND	0.0086	EPA 8270D/SIM	7-29-15	7-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>69</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>70</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>78</i>	<i>31 - 116</i>				

Date of Report: August 3, 2015
 Samples Submitted: July 24, 2015
 Laboratory Reference: 1507-206
 Project: 21138-001-03

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-4					
Laboratory ID:	07-206-04					
Benzo[a]anthracene	0.10	0.016	EPA 8270D/SIM	7-29-15	7-30-15	
Chrysene	0.11	0.016	EPA 8270D/SIM	7-29-15	7-30-15	
Benzo[b]fluoranthene	0.13	0.016	EPA 8270D/SIM	7-29-15	7-30-15	
Benzo(j,k)fluoranthene	0.035	0.016	EPA 8270D/SIM	7-29-15	7-30-15	
Benzo[a]pyrene	0.095	0.016	EPA 8270D/SIM	7-29-15	7-30-15	
Indeno(1,2,3-c,d)pyrene	0.081	0.016	EPA 8270D/SIM	7-29-15	7-30-15	
Dibenz[a,h]anthracene	0.017	0.016	EPA 8270D/SIM	7-29-15	7-30-15	
Benzo[g,h,i]perylene	0.090	0.016	EPA 8270D/SIM	7-29-15	7-30-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>69</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>62</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>81</i>	<i>31 - 116</i>				

Date of Report: August 3, 2015
 Samples Submitted: July 24, 2015
 Laboratory Reference: 1507-206
 Project: 21138-001-03

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0728S1					
Benzene	ND	0.020	EPA 8021B	7-28-15	7-28-15	
Toluene	ND	0.050	EPA 8021B	7-28-15	7-28-15	
Ethyl Benzene	ND	0.050	EPA 8021B	7-28-15	7-28-15	
m,p-Xylene	ND	0.050	EPA 8021B	7-28-15	7-28-15	
o-Xylene	ND	0.050	EPA 8021B	7-28-15	7-28-15	
Gasoline	ND	5.0	NWTPH-Gx	7-28-15	7-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	88	68-123				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	07-072-04							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				102	120	68-123		

SPIKE BLANKS

Laboratory ID:	SB0728S1									
	SB	SBD	SB	SBD	SB	SBD				
Benzene	0.992	1.04	1.00	1.00	99	104	75-117	5	13	
Toluene	0.978	1.02	1.00	1.00	98	102	78-118	4	12	
Ethyl Benzene	0.965	1.00	1.00	1.00	97	100	78-118	4	12	
m,p-Xylene	0.976	1.02	1.00	1.00	98	102	78-121	4	13	
o-Xylene	0.967	1.01	1.00	1.00	97	101	77-119	4	13	
<i>Surrogate:</i>										
<i>Fluorobenzene</i>					88	92	68-123			

Date of Report: August 3, 2015
 Samples Submitted: July 24, 2015
 Laboratory Reference: 1507-206
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0727S1					
Diesel Range Organics	ND	25	NWTPH-Dx	7-27-15	7-27-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	7-27-15	7-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	55	50-150				

DUPLICATE

Laboratory ID:	07-206-05							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>			61	74	50-150			

Date of Report: August 3, 2015
 Samples Submitted: July 24, 2015
 Laboratory Reference: 1507-206
 Project: 21138-001-03

**cPAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0729S1					
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	7-29-15	7-29-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	7-29-15	7-29-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	7-29-15	7-29-15	
Benzo[j,k]fluoranthene	ND	0.0067	EPA 8270D/SIM	7-29-15	7-29-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	7-29-15	7-29-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	7-29-15	7-29-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	7-29-15	7-29-15	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	7-29-15	7-29-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>80</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>86</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>83</i>	<i>31 - 116</i>				

Date of Report: August 3, 2015
 Samples Submitted: July 24, 2015
 Laboratory Reference: 1507-206
 Project: 21138-001-03

**cPAHs EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	07-205-01										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	0.0727	0.0740	0.0833	0.0833	ND	87	89	44 - 107	2	29	
Acenaphthylene	0.0728	0.0727	0.0833	0.0833	ND	87	87	44 - 121	0	27	
Acenaphthene	0.0725	0.0726	0.0833	0.0833	ND	87	87	47 - 109	0	26	
Fluorene	0.0744	0.0761	0.0833	0.0833	ND	89	91	49 - 115	2	28	
Phenanthrene	0.0755	0.0751	0.0833	0.0833	ND	91	90	45 - 114	1	26	
Anthracene	0.0976	0.0997	0.0833	0.0833	ND	117	120	43 - 140	2	27	
Fluoranthene	0.0780	0.0764	0.0833	0.0833	ND	94	92	44 - 126	2	27	
Pyrene	0.0776	0.0758	0.0833	0.0833	ND	93	91	43 - 125	2	27	
Benzo[a]anthracene	0.0817	0.0820	0.0833	0.0833	ND	98	98	42 - 134	0	27	
Chrysene	0.0750	0.0752	0.0833	0.0833	ND	90	90	45 - 114	0	27	
Benzo[b]fluoranthene	0.0696	0.0742	0.0833	0.0833	ND	84	89	38 - 131	6	33	
Benzo(j,k)fluoranthene	0.0660	0.0671	0.0833	0.0833	ND	79	81	44 - 114	2	34	
Benzo[a]pyrene	0.0747	0.0745	0.0833	0.0833	ND	90	89	40 - 136	0	29	
Indeno(1,2,3-c,d)pyrene	0.0701	0.0710	0.0833	0.0833	ND	84	85	45 - 126	1	30	
Dibenz[a,h]anthracene	0.0728	0.0735	0.0833	0.0833	ND	87	88	46 - 121	1	28	
Benzo[g,h,i]perylene	0.0744	0.0739	0.0833	0.0833	ND	89	89	43 - 120	1	31	
<i>Surrogate:</i>											
<i>2-Fluorobiphenyl</i>						<i>80</i>	<i>80</i>	<i>32 - 114</i>			
<i>Pyrene-d10</i>						<i>84</i>	<i>85</i>	<i>33 - 121</i>			
<i>Terphenyl-d14</i>						<i>83</i>	<i>87</i>	<i>31 - 116</i>			

Date of Report: August 3, 2015
Samples Submitted: July 24, 2015
Laboratory Reference: 1507-206
Project: 21138-001-03

% MOISTURE

Date Analyzed: 7-27-15

Client ID	Lab ID	% Moisture
SS-1	07-206-01	25
SS-2	07-206-02	14
SS-3	07-206-03	23
SS-4	07-206-04	15
EX-1-12.0	07-206-05	8



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Onsite Environmental Inc.

Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 833-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Laboratory Number: **07-206**

Company: **GEODENGINEERS**

Project Number: **2-1138-001-08**

Project Name: **9th & LENDRA SITE**

Project Manager: **FASIH KHAN**

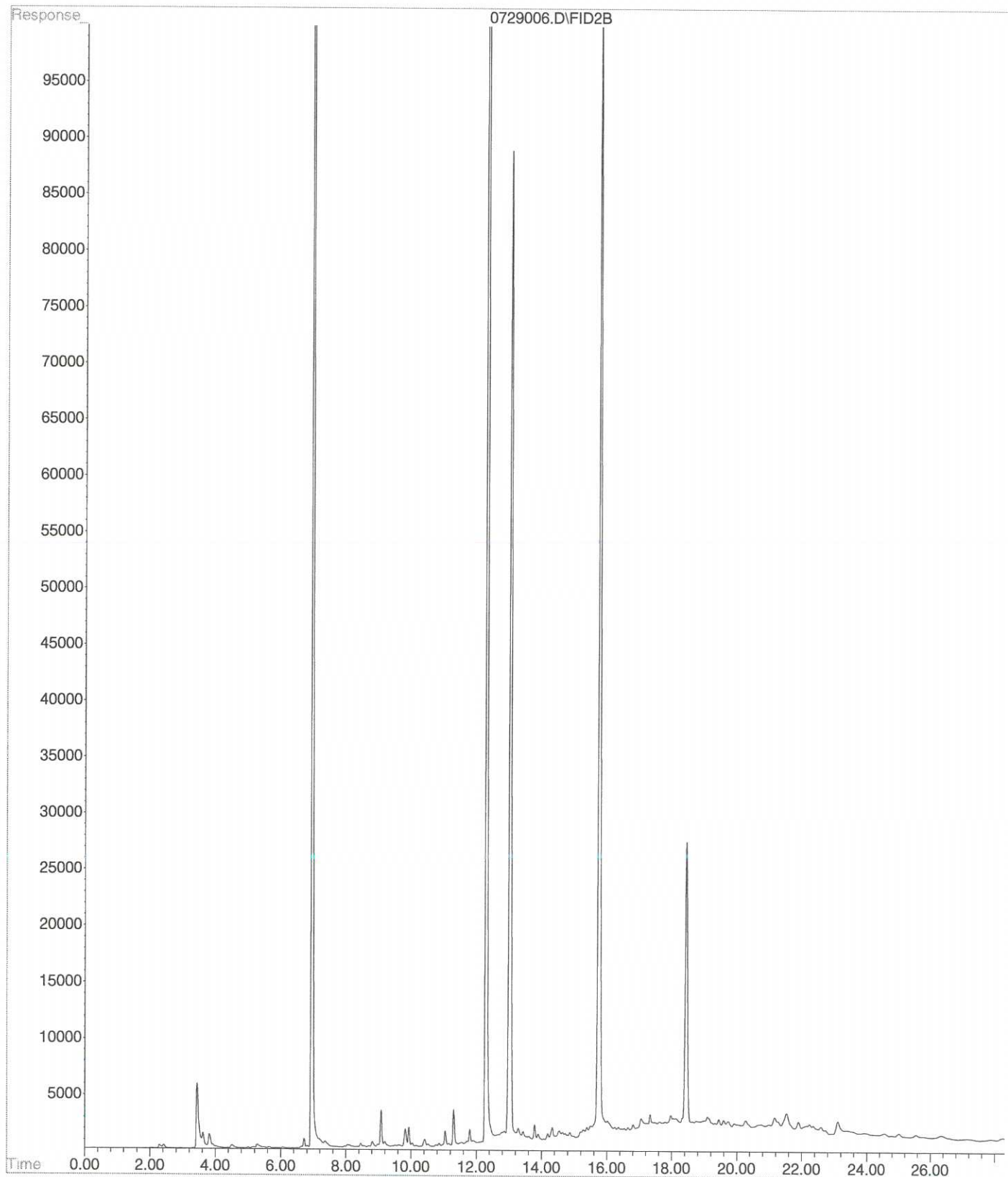
Sampled by: **FASIH KHAN**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	SS-1	7/24/15	0900	S
2	SS-2		0910	
3	SS-3		0930	
4	SS-4		0940	
5	EX-1-12.0		1130	

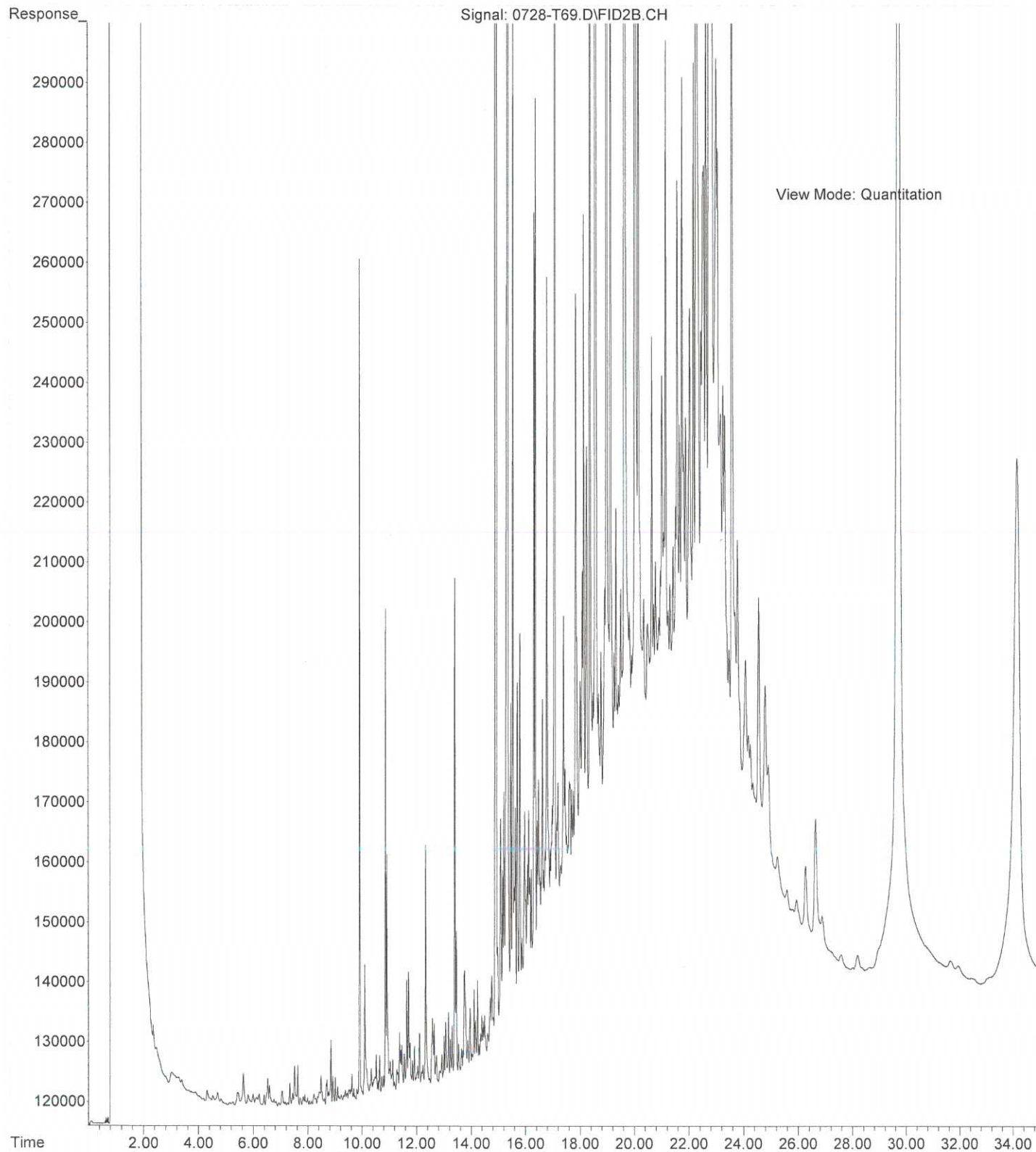
Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	CPAHs ONLY	% Moisture
1				<input checked="" type="checkbox"/>													<input checked="" type="checkbox"/>	
1				<input checked="" type="checkbox"/>													<input checked="" type="checkbox"/>	
1				<input checked="" type="checkbox"/>													<input checked="" type="checkbox"/>	
1				<input checked="" type="checkbox"/>													<input checked="" type="checkbox"/>	
2				<input checked="" type="checkbox"/>													<input checked="" type="checkbox"/>	

Signature	Company	Date	Time	Comments/Special Instructions
	GET	7/24/15	1623	
	GET	7/24/15	1623	
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date				Chromatograms with final report <input type="checkbox"/>

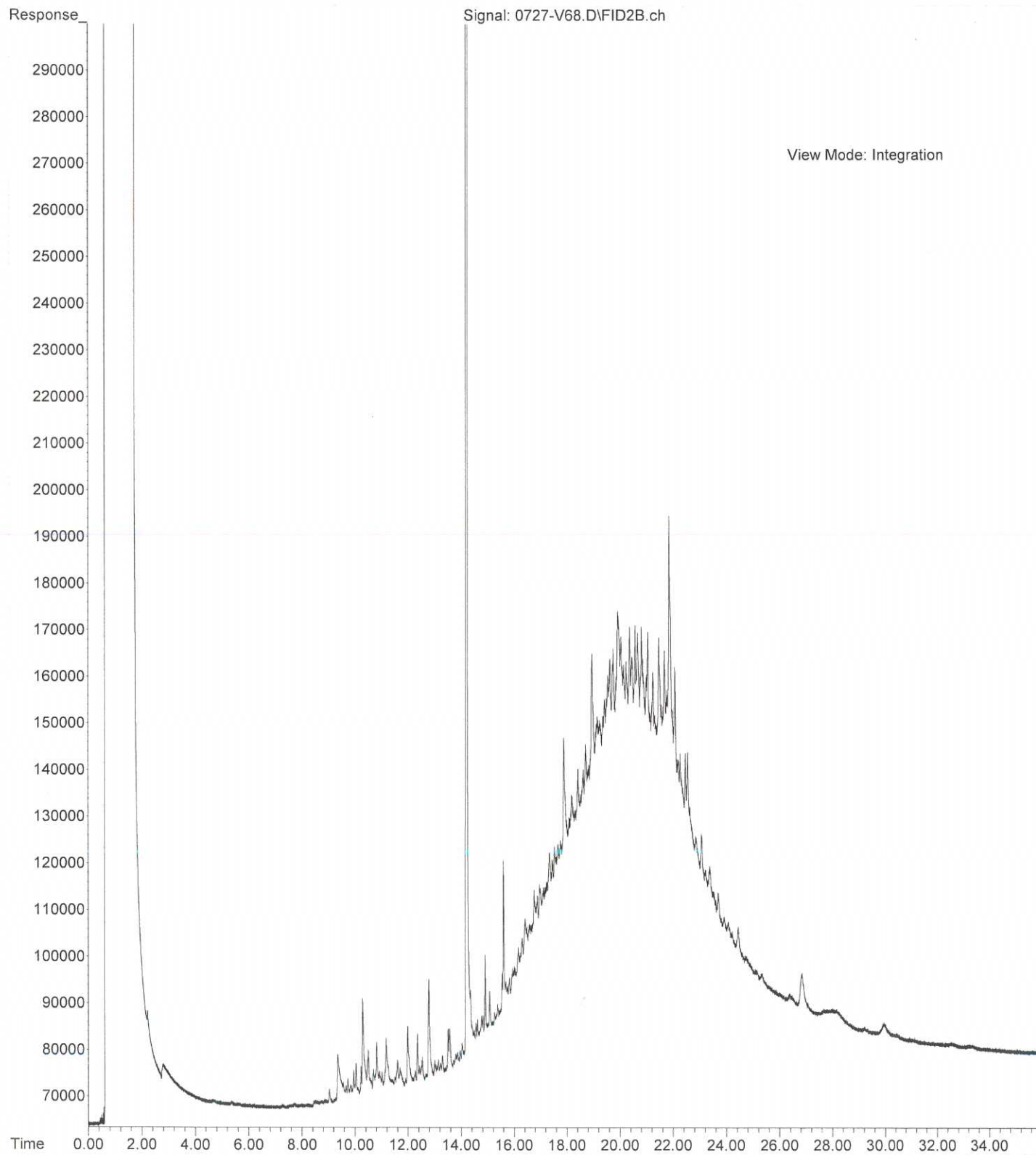
File : D:\BTEX\DATA\D150729\0729006.D
Operator :
Acquired : 29 Jul 2015 13:16 using AcqMethod 150709B.M
Instrument : Daryl
Sample Name: 07-206-05 RRR
Misc Info :
Vial Number: 6



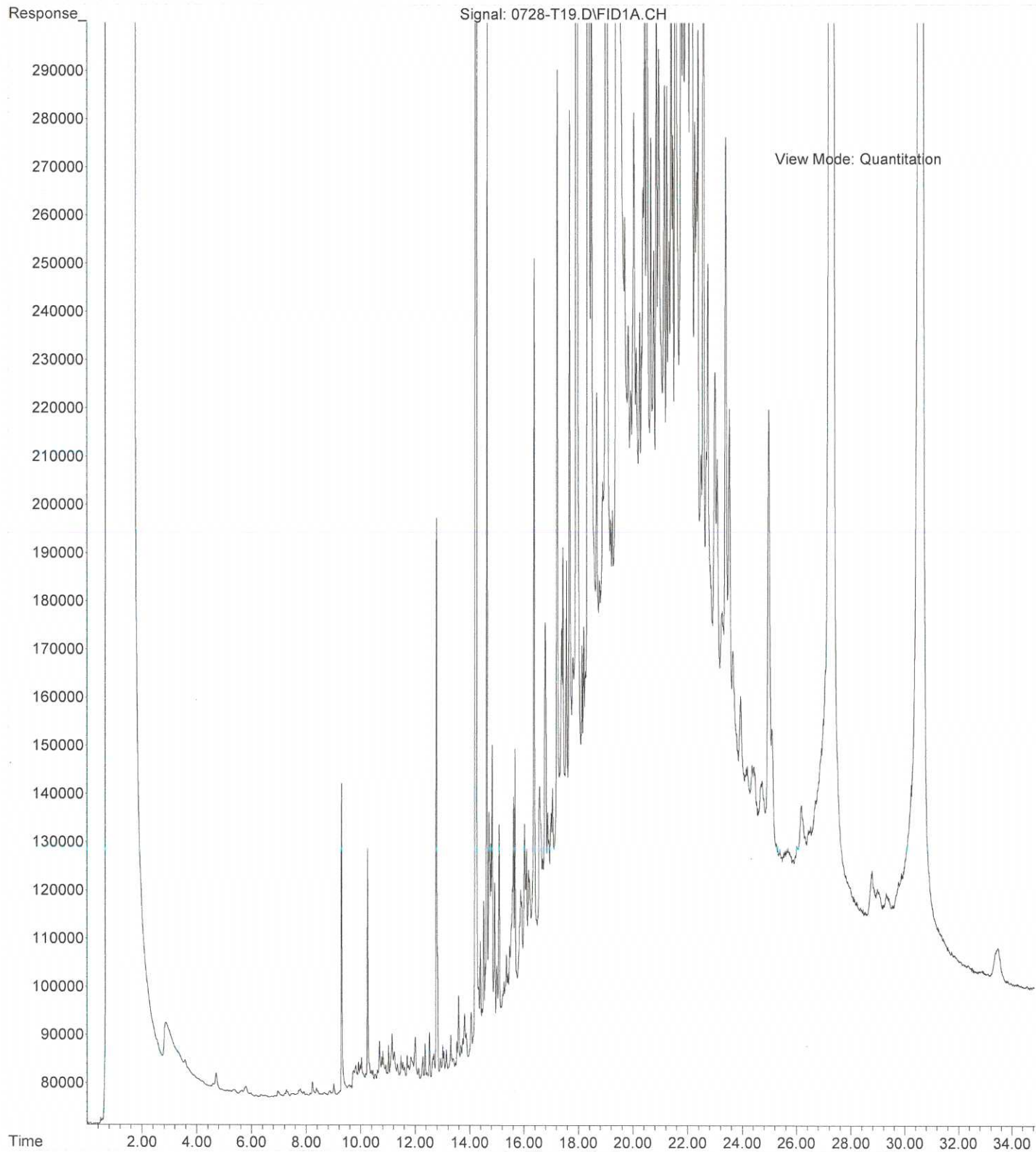
File :X:\DIESELS\TERI\DATA\T150728.SEC\0728-T69.D
Operator : ZT
Acquired : 29 Jul 2015 12:53 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 07-206-01 RR
Misc Info :
Vial Number: 69



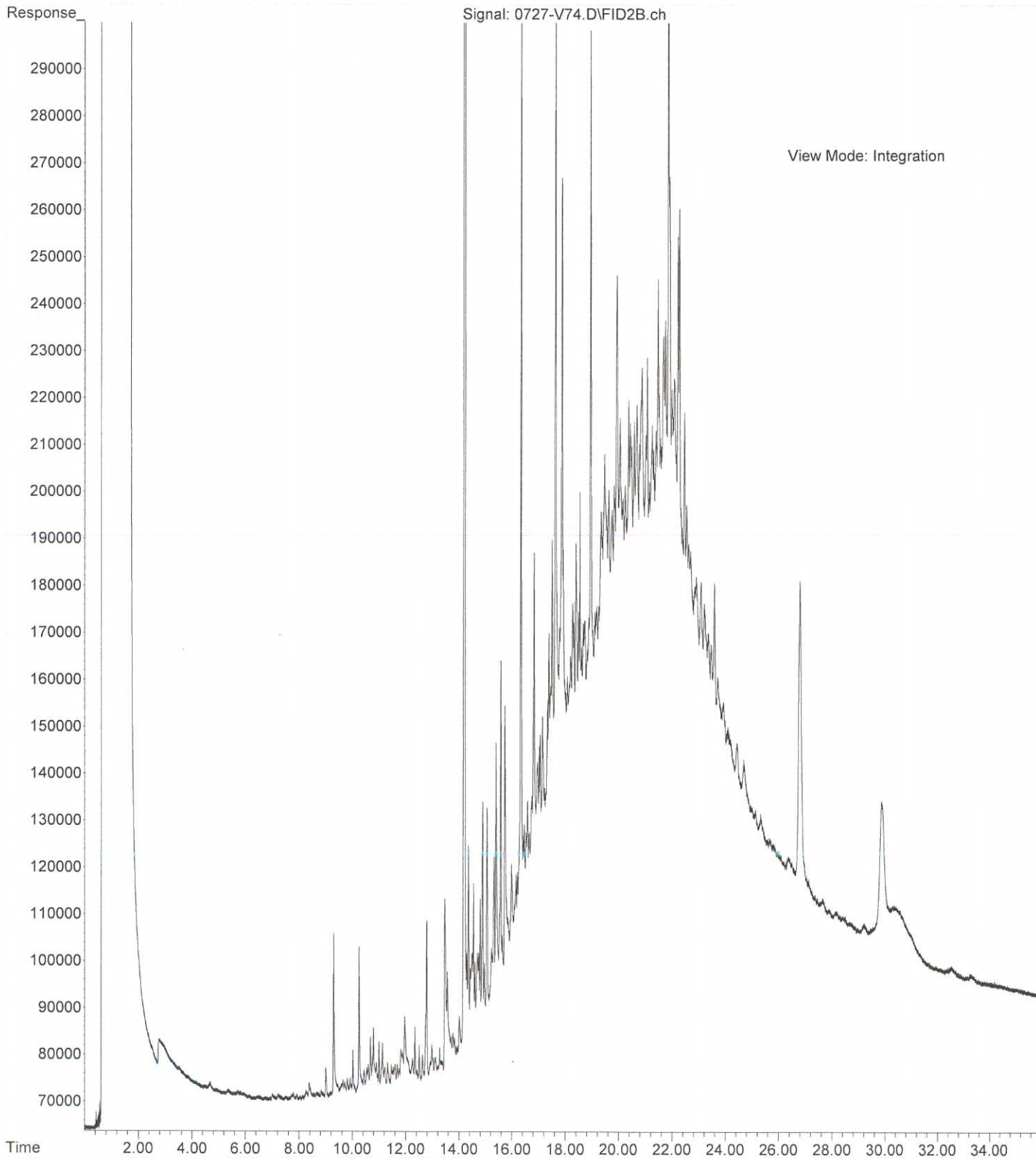
File :X:\DIESELS\VIGO\DATA\V150727.SEC\0727-V68.D
Operator :
Acquired : 28 Jul 2015 00:38 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 07-206-02
Misc Info :
Vial Number: 68



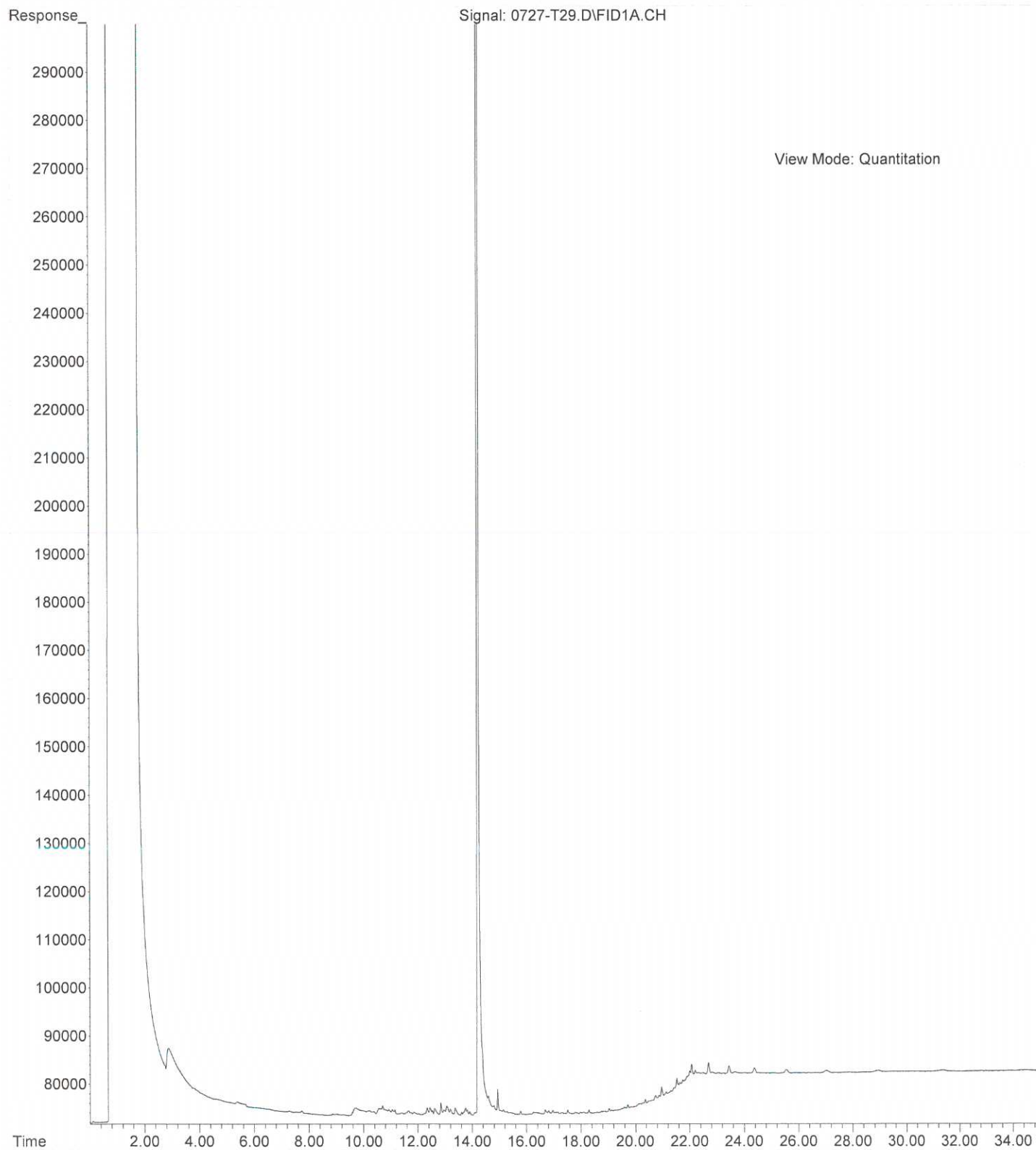
File :X:\DIESELS\TERI\DATA\T150728\0728-T19.D
Operator : ZT
Acquired : 29 Jul 2015 12:53 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 07-206-03 RR
Misc Info :
Vial Number: 19



File :X:\DIESELS\VIGO\DATA\V150727.SEC\0727-V74.D
Operator :
Acquired : 28 Jul 2015 4:43 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 07-206-04
Misc Info :
Vial Number: 74



File :X:\DIESELS\TERI\DATA\T150727\0727-T29.D
Operator : ZT
Acquired : 28 Jul 2015 8:42 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 07-206-05
Misc Info :
Vial Number: 29





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 3, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1507-254

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on July 31, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 3, 2015
Samples Submitted: July 31, 2015
Laboratory Reference: 1507-254
Project: 21138-001-03

Case Narrative

Samples were collected on July 31, 2015 and received by the laboratory on July 31, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: August 3, 2015
Samples Submitted: July 31, 2015
Laboratory Reference: 1507-254
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS-5	07-254-01	Soil	7-31-15	7-31-15	

Date of Report: August 3, 2015
 Samples Submitted: July 31, 2015
 Laboratory Reference: 1507-254
 Project: 21138-001-03

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-5					
Laboratory ID:	07-254-01					
Benzene	ND	0.022	EPA 8021B	7-31-15	7-31-15	
Toluene	ND	0.11	EPA 8021B	7-31-15	7-31-15	
Ethyl Benzene	ND	0.11	EPA 8021B	7-31-15	7-31-15	
m,p-Xylene	ND	0.11	EPA 8021B	7-31-15	7-31-15	
o-Xylene	ND	0.11	EPA 8021B	7-31-15	7-31-15	
Gasoline	ND	11	NWTPH-Gx	7-31-15	7-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>90</i>	<i>68-123</i>				

Date of Report: August 3, 2015
 Samples Submitted: July 31, 2015
 Laboratory Reference: 1507-254
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-5					
Laboratory ID:	07-254-01					
Diesel Range Organics	ND	40	NWTPH-Dx	7-31-15	7-31-15	U1
Lube Oil	300	55	NWTPH-Dx	7-31-15	7-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	70	50-150				

Date of Report: August 3, 2015
 Samples Submitted: July 31, 2015
 Laboratory Reference: 1507-254
 Project: 21138-001-03

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0731S2					
Benzene	ND	0.020	EPA 8021B			
Toluene	ND	0.050	EPA 8021B			
Ethyl Benzene	ND	0.050	EPA 8021B			
m,p-Xylene	ND	0.050	EPA 8021B			
o-Xylene	ND	0.050	EPA 8021B			
Gasoline	ND	5.0	NWTPH-Gx			
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	86	68-123				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	07-212-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				93	93	68-123		

SPIKE BLANKS

Laboratory ID:	SB0731S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.985	1.03	1.00	1.00	99	103	75-117	4	13
Toluene	0.971	1.02	1.00	1.00	97	102	78-118	5	12
Ethyl Benzene	0.957	1.00	1.00	1.00	96	100	78-118	4	12
m,p-Xylene	0.972	1.02	1.00	1.00	97	102	78-121	5	13
o-Xylene	0.960	0.994	1.00	1.00	96	99	77-119	3	13
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					89	93	68-123		

Date of Report: August 3, 2015
 Samples Submitted: July 31, 2015
 Laboratory Reference: 1507-254
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0731S1					
Diesel Range Organics	ND	25	NWTPH-Dx	7-31-15	7-31-15	
Lube Oil Range	ND	50	NWTPH-Dx	7-31-15	7-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	61	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	07-242-02							
	ORIG	DUP						
Diesel Fuel #2	4950	3390	NA	NA	NA	37	NA	
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	U1
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				121	111	50-150		

Date of Report: August 3, 2015
Samples Submitted: July 31, 2015
Laboratory Reference: 1507-254
Project: 21138-001-03

% MOISTURE

Date Analyzed: 7-31-15

Client ID	Lab ID	% Moisture
SS-5	07-254-01	8



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Onsite Environmental Inc.

Analytical Laboratory Testing Services
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Chain of Custody

Turnaround Request
(in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

(other)

Laboratory Number:

07-254

Company: **GEODENGINERS**
Project Number: **21138-001-03**
Project Name: **9# 2 LENOVA PROJECT**
Project Manager: **FASIH KHANI**
Sampled by: **FASIH KHANI**

Lab ID: _____ Sample Identification: _____

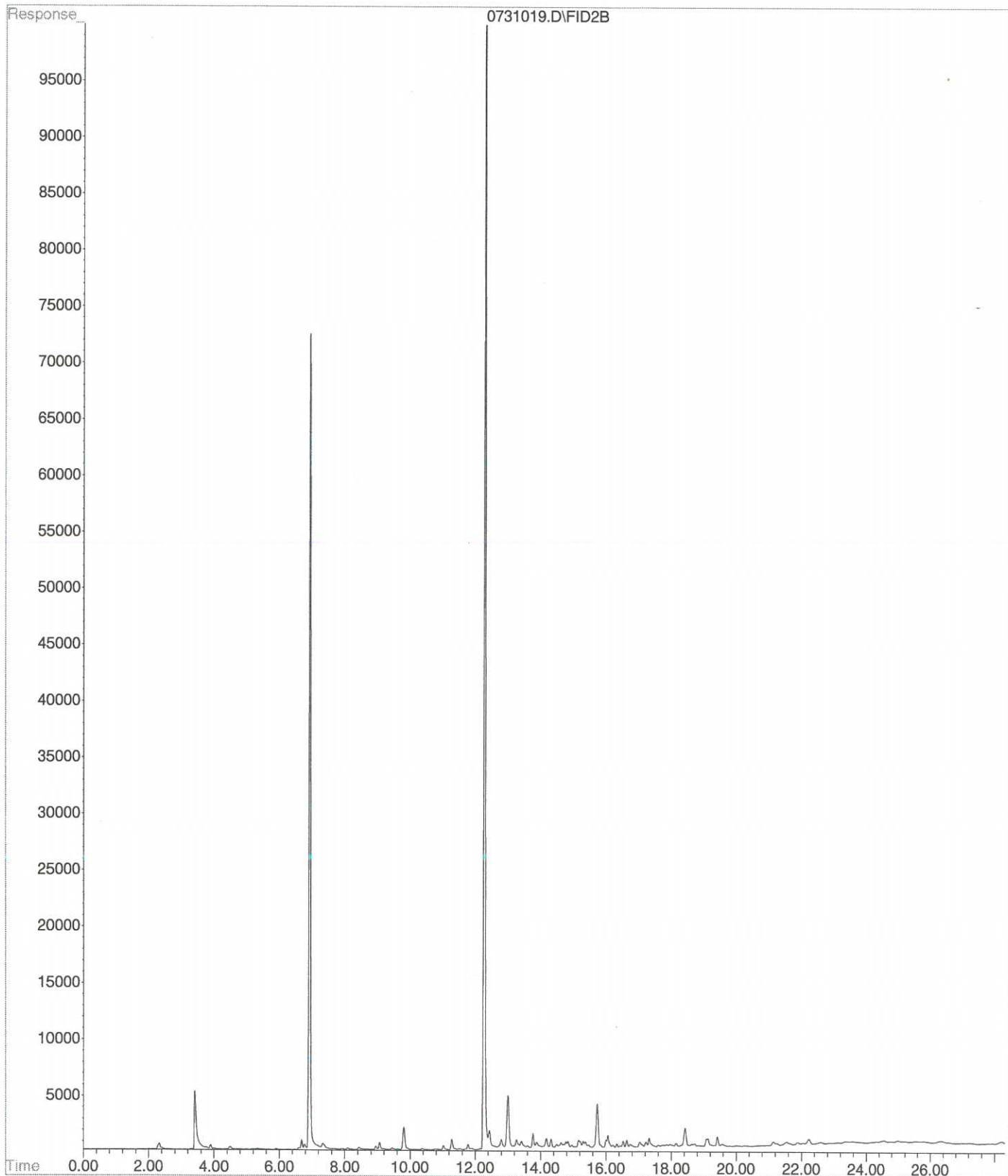
Number of Containers

NWTPH-HCID	
NWTPH-Gx/BTEX	<input checked="" type="checkbox"/>
NWTPH-Gx	
NWTPH-Dx	<input checked="" type="checkbox"/>
Volatiles 8260C	
Halogenated Volatiles 8260C	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
% Moisture	<input checked="" type="checkbox"/>

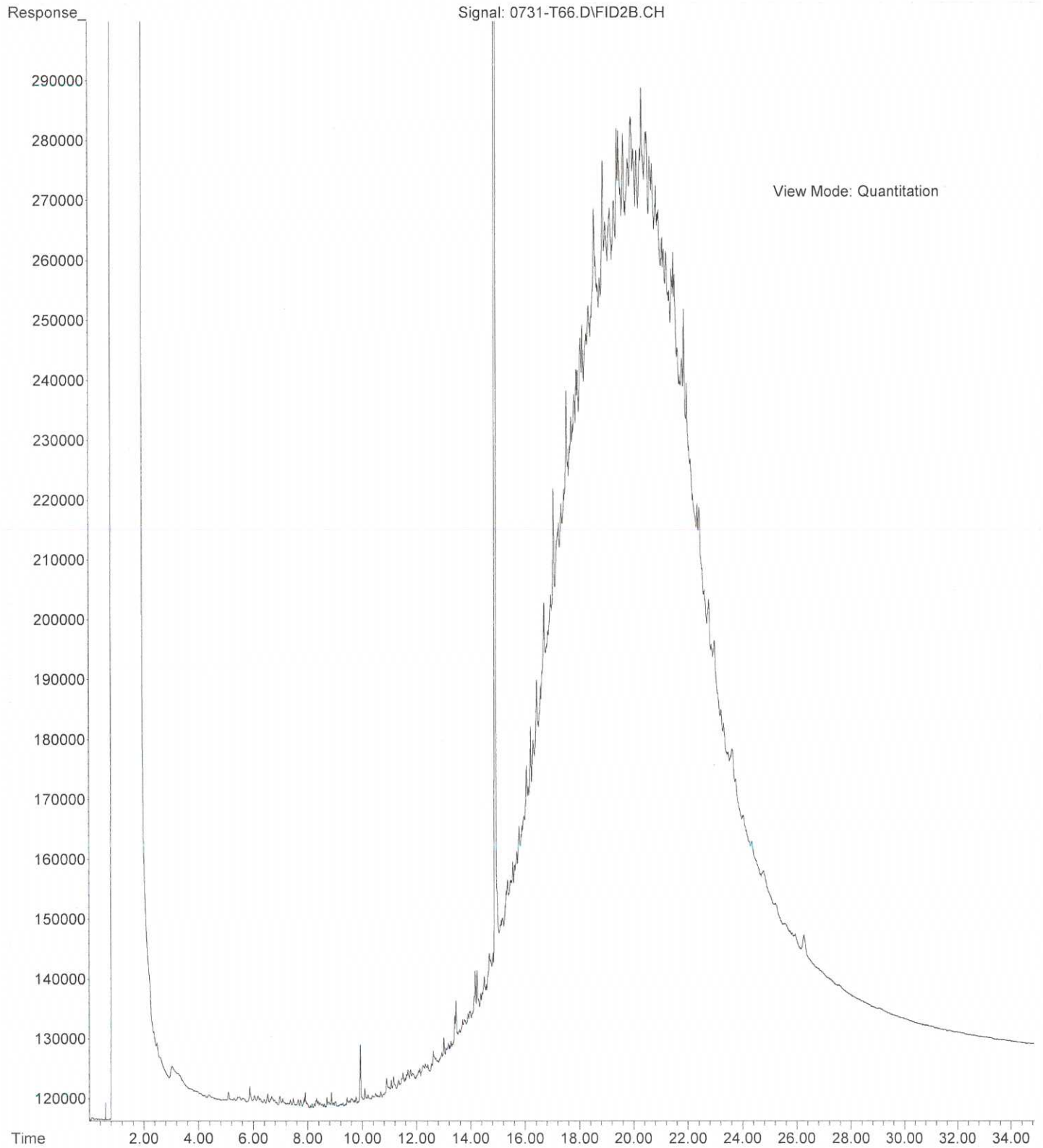
Date Sampled: **7/31/15** Time Sampled: **0930** Matrix: **S**

Signature	Company	Date	Time	Comments/Special Instructions
	GEI	7/31/15	1155	
	CORE	7/31/15	1155	
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date	Reviewed/Date	Chromatograms with final report <input type="checkbox"/>		

File : D:\BTEX\DATA\D150731\0731019.D
Operator :
Acquired : 1 Aug 2015 00:24 using AcqMethod 150709B.M
Instrument : Daryl
Sample Name: 07-254-01 1:100
Misc Info :
Vial Number: 19



File :X:\DIESELS\TERI\DATA\T150731.SEC\0731-T66.D
Operator : ZT
Acquired : 01 Aug 2015 0:27 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 07-254-01
Misc Info :
Vial Number: 66





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August 7, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1508-030

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on August 6, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB' followed by a long horizontal stroke.

David Baumeister
Project Manager

Enclosures

Date of Report: August 7, 2015
Samples Submitted: August 6, 2015
Laboratory Reference: 1508-030
Project: 21138-001-03

Case Narrative

Samples were collected on August 5, 2015 and received by the laboratory on August 6, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 7, 2015
Samples Submitted: August 6, 2015
Laboratory Reference: 1508-030
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS-6	08-030-01	Soil	8-5-15	8-6-15	
SS-7	08-030-02	Soil	8-5-15	8-6-15	

Date of Report: August 7, 2015
 Samples Submitted: August 6, 2015
 Laboratory Reference: 1508-030
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-6					
Laboratory ID:	08-030-01					
Diesel Range Organics	610	31	NWTPH-Dx	8-6-15	8-6-15	N
Lube Oil	2900	63	NWTPH-Dx	8-6-15	8-6-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>72</i>	<i>50-150</i>				
Client ID:	SS-7					
Laboratory ID:	08-030-02					
Diesel Range Organics	43	35	NWTPH-Dx	8-6-15	8-6-15	
Lube Oil Range Organics	120	69	NWTPH-Dx	8-6-15	8-6-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>85</i>	<i>50-150</i>				

Date of Report: August 7, 2015
 Samples Submitted: August 6, 2015
 Laboratory Reference: 1508-030
 Project: 21138-001-03

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-6					
Laboratory ID:	08-030-01					
Benzo[a]anthracene	0.40	0.017	EPA 8270D/SIM	8-6-15	8-7-15	
Chrysene	0.40	0.017	EPA 8270D/SIM	8-6-15	8-7-15	
Benzo[b]fluoranthene	0.37	0.0084	EPA 8270D/SIM	8-6-15	8-6-15	
Benzo(j,k)fluoranthene	0.13	0.0084	EPA 8270D/SIM	8-6-15	8-6-15	
Benzo[a]pyrene	0.38	0.0084	EPA 8270D/SIM	8-6-15	8-6-15	
Indeno(1,2,3-c,d)pyrene	0.23	0.0084	EPA 8270D/SIM	8-6-15	8-6-15	
Dibenz[a,h]anthracene	0.046	0.0084	EPA 8270D/SIM	8-6-15	8-6-15	
Benzo[g,h,i]perylene	0.23	0.0084	EPA 8270D/SIM	8-6-15	8-6-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>77</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>53</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>86</i>	<i>31 - 116</i>				

Date of Report: August 7, 2015
 Samples Submitted: August 6, 2015
 Laboratory Reference: 1508-030
 Project: 21138-001-03

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-7					
Laboratory ID:	08-030-02					
Benzo[a]anthracene	ND	0.0093	EPA 8270D/SIM	8-6-15	8-6-15	
Chrysene	ND	0.0093	EPA 8270D/SIM	8-6-15	8-6-15	
Benzo[b]fluoranthene	ND	0.019	EPA 8270D/SIM	8-6-15	8-7-15	
Benzo(j,k)fluoranthene	ND	0.019	EPA 8270D/SIM	8-6-15	8-7-15	
Benzo[a]pyrene	ND	0.019	EPA 8270D/SIM	8-6-15	8-7-15	
Indeno(1,2,3-c,d)pyrene	ND	0.019	EPA 8270D/SIM	8-6-15	8-7-15	
Dibenz[a,h]anthracene	ND	0.019	EPA 8270D/SIM	8-6-15	8-7-15	
Benzo[g,h,i]perylene	ND	0.019	EPA 8270D/SIM	8-6-15	8-7-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>69</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>63</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>82</i>	<i>31 - 116</i>				

Date of Report: August 7, 2015
 Samples Submitted: August 6, 2015
 Laboratory Reference: 1508-030
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0806S1					
Diesel Range Organics	ND	25	NWTPH-Dx	8-6-15	8-6-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-6-15	8-6-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>88</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-031-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				93	95	50-150		

Date of Report: August 7, 2015
 Samples Submitted: August 6, 2015
 Laboratory Reference: 1508-030
 Project: 21138-001-03

**cPAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0806S2					
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-6-15	8-6-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-6-15	8-6-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-6-15	8-6-15	
Benzo[j,k]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-6-15	8-6-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-6-15	8-6-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-6-15	8-6-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-6-15	8-6-15	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-6-15	8-6-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>86</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>90</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>99</i>	<i>31 - 116</i>				

Date of Report: August 7, 2015
 Samples Submitted: August 6, 2015
 Laboratory Reference: 1508-030
 Project: 21138-001-03

**cPAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0806S2									
Naphthalene	0.0712	0.0711	0.0833	0.0833	85	85	63 - 113	0	19	
Acenaphthylene	0.0654	0.0731	0.0833	0.0833	79	88	61 - 125	11	16	
Acenaphthene	0.0684	0.0698	0.0833	0.0833	82	84	66 - 113	2	16	
Fluorene	0.0747	0.0731	0.0833	0.0833	90	88	60 - 117	2	16	
Phenanthrene	0.0723	0.0693	0.0833	0.0833	87	83	63 - 116	4	12	
Anthracene	0.0966	0.0845	0.0833	0.0833	116	101	66 - 146	13	19	
Fluoranthene	0.0733	0.0718	0.0833	0.0833	88	86	60 - 125	2	13	
Pyrene	0.0718	0.0682	0.0833	0.0833	86	82	66 - 126	5	15	
Benzo[a]anthracene	0.0646	0.0661	0.0833	0.0833	78	79	60 - 128	2	15	
Chrysene	0.0749	0.0781	0.0833	0.0833	90	94	60 - 117	4	13	
Benzo[b]fluoranthene	0.0668	0.0694	0.0833	0.0833	80	83	60 - 131	4	16	
Benzo(j,k)fluoranthene	0.0687	0.0690	0.0833	0.0833	82	83	57 - 126	0	20	
Benzo[a]pyrene	0.0700	0.0713	0.0833	0.0833	84	86	62 - 136	2	16	
Indeno(1,2,3-c,d)pyrene	0.0640	0.0645	0.0833	0.0833	77	77	60 - 127	1	19	
Dibenz[a,h]anthracene	0.0653	0.0665	0.0833	0.0833	78	80	62 - 133	2	22	
Benzo[g,h,i]perylene	0.0628	0.0658	0.0833	0.0833	75	79	63 - 129	5	22	
<i>Surrogate:</i>										
2-Fluorobiphenyl					83	86	32 - 114			
Pyrene-d10					90	87	33 - 121			
Terphenyl-d14					92	88	31 - 116			

Date of Report: August 7, 2015
Samples Submitted: August 6, 2015
Laboratory Reference: 1508-030
Project: 21138-001-03

% MOISTURE

Date Analyzed: 8-6-15

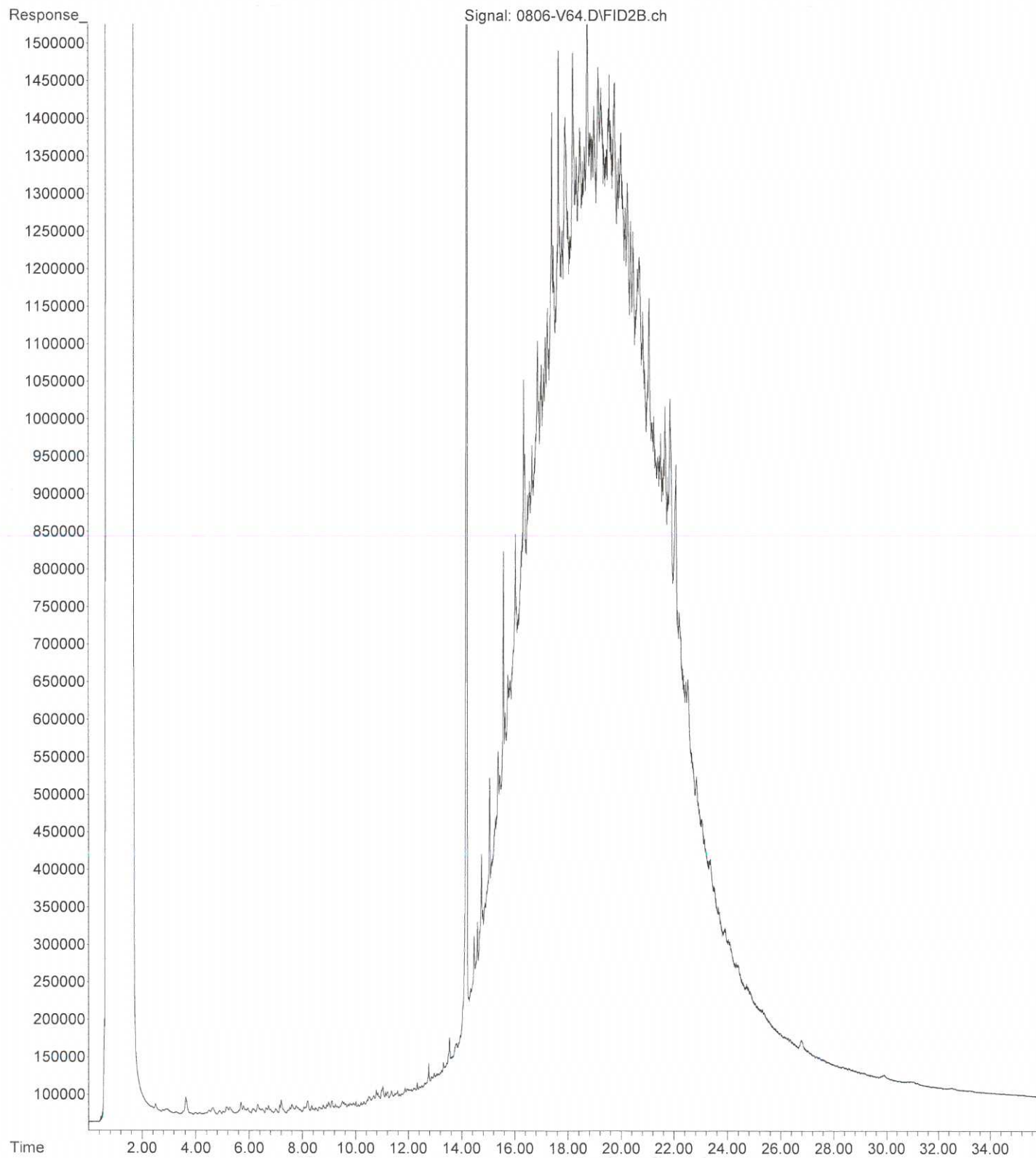
Client ID	Lab ID	% Moisture
SS-6	08-030-01	20
SS-7	08-030-02	28



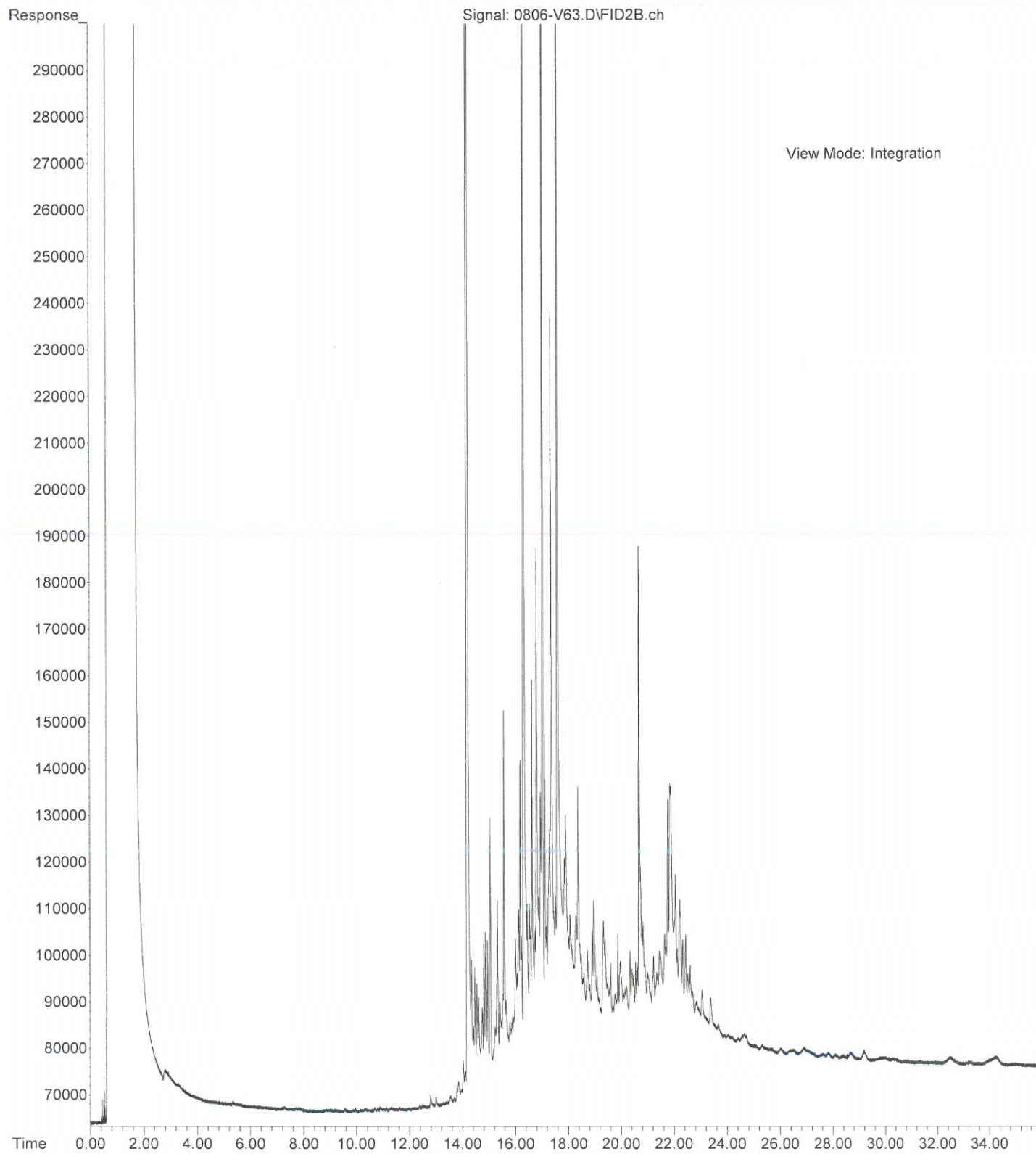
Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

File :X:\DIESELS\VIGO\DATA\V150806.SEC\0806-V64.D
Operator :
Acquired : 6 Aug 2015 22:08 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 08-030-01
Misc Info :
Vial Number: 64



File :X:\DIESELS\VIGO\DATA\V150806.SEC\0806-V63.D
Operator :
Acquired : 6 Aug 2015 21:27 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 08-030-02
Misc Info :
Vial Number: 63





OnSite Environmental Inc.
 Analytical Laboratory Testing Services
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Chain of Custody

08-030

Turnaround Request
(in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number:

Company: GEOTECHNICAL ENGINEERS
 Project Number: 21138-001-03
 Project Name: 9th & LEONORA PROJECT
 Project Manager: FASIH KHAN
 Sampled by: FASIH KHAN

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	SS-6	8/15/15	0930	S
2	SS-7	8/15/15	1330	S

Number of Containers	
NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx	<input checked="" type="checkbox"/>
Volatiles 8260C	<input checked="" type="checkbox"/>
Halogenated Volatiles 8260C	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
CPAHs ONLY	<input checked="" type="checkbox"/>
% Moisture	<input checked="" type="checkbox"/>

Signature	Company	Date	Time	Comments/Special Instructions
	GEI	8/16/15	0740	
	OSE	8.16.15	7:40A	
Received				
Relinquished				
Received				
Relinquished				
Reviewed/Date				Chromatograms with final report <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 14, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1508-100

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on August 12, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 14, 2015
Samples Submitted: August 12, 2015
Laboratory Reference: 1508-100
Project: 21138-001-03

Case Narrative

Samples were collected on August 10 and 11, 2015 and received by the laboratory on August 12, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 14, 2015
Samples Submitted: August 12, 2015
Laboratory Reference: 1508-100
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS-8	08-100-01	Soil	8-10-15	8-12-15	

Date of Report: August 14, 2015
 Samples Submitted: August 12, 2015
 Laboratory Reference: 1508-100
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-8					
Laboratory ID:	08-100-01					
Diesel Range Organics	ND	35	NWTPH-Dx	8-12-15	8-12-15	
Lube Oil	76	71	NWTPH-Dx	8-12-15	8-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>77</i>	<i>50-150</i>				

Date of Report: August 14, 2015
 Samples Submitted: August 12, 2015
 Laboratory Reference: 1508-100
 Project: 21138-001-03

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SS-8					
Laboratory ID:	08-100-01					
Benzo[a]anthracene	0.019	0.0094	EPA 8270D/SIM	8-13-15	8-13-15	
Chrysene	0.026	0.0094	EPA 8270D/SIM	8-13-15	8-13-15	
Benzo[b]fluoranthene	0.025	0.0094	EPA 8270D/SIM	8-13-15	8-13-15	
Benzo(j,k)fluoranthene	ND	0.0094	EPA 8270D/SIM	8-13-15	8-13-15	
Benzo[a]pyrene	0.015	0.0094	EPA 8270D/SIM	8-13-15	8-13-15	
Indeno(1,2,3-c,d)pyrene	0.014	0.0094	EPA 8270D/SIM	8-13-15	8-13-15	
Dibenz[a,h]anthracene	ND	0.0094	EPA 8270D/SIM	8-13-15	8-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>66</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>57</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>63</i>	<i>31 - 116</i>				

Date of Report: August 14, 2015
 Samples Submitted: August 12, 2015
 Laboratory Reference: 1508-100
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0812S1					
Diesel Range Organics	ND	25	NWTPH-Dx	8-12-15	8-12-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-12-15	8-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	76	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-091-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	U1
Lube Oil	150	143	NA	NA	NA	5	NA	
<i>Surrogate:</i>								
<i>o-Terphenyl</i>			87	90	50-150			

Date of Report: August 14, 2015
 Samples Submitted: August 12, 2015
 Laboratory Reference: 1508-100
 Project: 21138-001-03

**cPAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0813S2					
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-13-15	8-13-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-13-15	8-13-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-13-15	8-13-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-13-15	8-13-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-13-15	8-13-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-13-15	8-13-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-13-15	8-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>100</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>88</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>90</i>	<i>31 - 116</i>				

Date of Report: August 14, 2015
 Samples Submitted: August 12, 2015
 Laboratory Reference: 1508-100
 Project: 21138-001-03

**cPAHs EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	08-100-01										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	0.144	0.168	0.167	0.167	0.0371	64	78	44 - 107	15	29	
Acenaphthylene	0.105	0.113	0.167	0.167	ND	63	68	44 - 121	7	27	
Acenaphthene	0.118	0.119	0.167	0.167	ND	71	71	47 - 109	1	26	
Fluorene	0.126	0.123	0.167	0.167	ND	75	74	49 - 115	2	28	
Phenanthrene	0.177	0.158	0.167	0.167	0.0609	70	58	45 - 114	11	26	
Anthracene	0.169	0.160	0.167	0.167	0.00766	97	91	43 - 140	5	27	
Fluoranthene	0.136	0.125	0.167	0.167	0.0225	68	61	44 - 126	8	27	
Pyrene	0.151	0.122	0.167	0.167	0.0197	79	61	43 - 125	21	27	
Benzo[a]anthracene	0.135	0.127	0.167	0.167	0.0134	73	68	42 - 134	6	27	
Chrysene	0.132	0.126	0.167	0.167	0.0182	68	65	45 - 114	5	27	
Benzo[b]fluoranthene	0.129	0.128	0.167	0.167	0.0176	67	66	38 - 131	1	33	
Benzo(j,k)fluoranthene	0.116	0.103	0.167	0.167	ND	69	62	44 - 114	12	34	
Benzo[a]pyrene	0.124	0.116	0.167	0.167	0.0104	68	63	40 - 136	7	29	
Indeno(1,2,3-c,d)pyrene	0.112	0.110	0.167	0.167	0.0101	61	60	45 - 126	2	30	
Dibenz[a,h]anthracene	0.103	0.102	0.167	0.167	ND	62	61	46 - 121	1	28	
Benzo[g,h,i]perylene	0.114	0.111	0.167	0.167	0.0105	62	60	43 - 120	3	31	
<i>Surrogate:</i>											
2-Fluorobiphenyl						64	74	32 - 114			
Pyrene-d10						76	64	33 - 121			
Terphenyl-d14						91	70	31 - 116			

Date of Report: August 14, 2015
Samples Submitted: August 12, 2015
Laboratory Reference: 1508-100
Project: 21138-001-03

% MOISTURE

Date Analyzed: 8-12-15

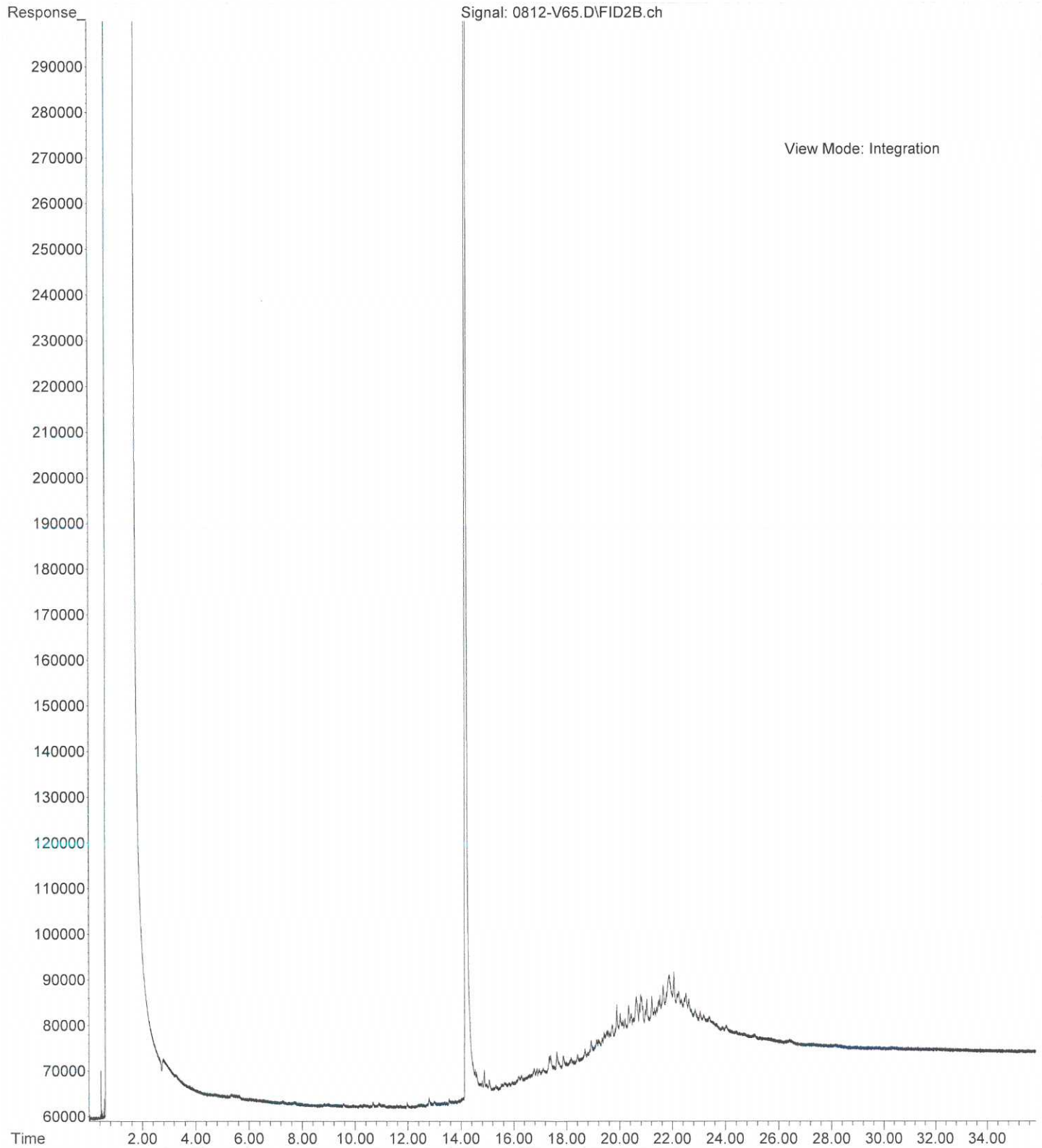
Client ID	Lab ID	% Moisture
SS-8	08-100-01	29



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

File :X:\DIESELS\VIGO\DATA\V150812.SEC\0812-V65.D
Operator :
Acquired : 12 Aug 2015 21:58 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 08-100-01
Misc Info :
Vial Number: 65





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 28, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1508-267

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on August 27, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 28, 2015
Samples Submitted: August 27, 2015
Laboratory Reference: 1508-267
Project: 21138-001-03

Case Narrative

Samples were collected on August 26, 2015 and received by the laboratory on August 27, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: August 28, 2015
Samples Submitted: August 27, 2015
Laboratory Reference: 1508-267
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UST2 EX-E-35.0	08-267-01	Soil	8-26-15	8-27-15	
UST2 EX-B1-35.0	08-267-02	Soil	8-26-15	8-27-15	

Date of Report: August 28, 2015
 Samples Submitted: August 27, 2015
 Laboratory Reference: 1508-267
 Project: 21138-001-03

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2 EX-E-35.0					
Laboratory ID:	08-267-01					
Benzene	ND	0.020	EPA 8021B	8-27-15	8-27-15	
Toluene	ND	0.069	EPA 8021B	8-27-15	8-27-15	
Ethyl Benzene	ND	0.069	EPA 8021B	8-27-15	8-27-15	
m,p-Xylene	ND	0.069	EPA 8021B	8-27-15	8-27-15	
o-Xylene	ND	0.069	EPA 8021B	8-27-15	8-27-15	
Gasoline	ND	6.9	NWTPH-Gx	8-27-15	8-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>89</i>	<i>68-123</i>				
Client ID:	UST2 EX-B1-35.0					
Laboratory ID:	08-267-02					
Benzene	ND	0.020	EPA 8021B	8-27-15	8-27-15	
Toluene	ND	0.063	EPA 8021B	8-27-15	8-27-15	
Ethyl Benzene	ND	0.063	EPA 8021B	8-27-15	8-27-15	
m,p-Xylene	ND	0.063	EPA 8021B	8-27-15	8-27-15	
o-Xylene	ND	0.063	EPA 8021B	8-27-15	8-27-15	
Gasoline	ND	6.3	NWTPH-Gx	8-27-15	8-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>83</i>	<i>68-123</i>				

Date of Report: August 28, 2015
 Samples Submitted: August 27, 2015
 Laboratory Reference: 1508-267
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2 EX-E-35.0					
Laboratory ID:	08-267-01					
Diesel Range Organics	ND	32	NWTPH-Dx	8-27-15	8-27-15	
Lube Oil Range Organics	ND	64	NWTPH-Dx	8-27-15	8-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				
Client ID:	UST2 EX-B1-35.0					
Laboratory ID:	08-267-02					
Diesel Range Organics	ND	26	NWTPH-Dx	8-27-15	8-27-15	
Lube Oil Range Organics	ND	53	NWTPH-Dx	8-27-15	8-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	83	50-150				

Date of Report: August 28, 2015
 Samples Submitted: August 27, 2015
 Laboratory Reference: 1508-267
 Project: 21138-001-03

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2 EX-E-35.0					
Laboratory ID:	08-267-01					
Naphthalene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
2-Methylnaphthalene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
1-Methylnaphthalene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Acenaphthylene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Acenaphthene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Fluorene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Phenanthrene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Anthracene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Fluoranthene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Pyrene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[a]anthracene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Chrysene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[b]fluoranthene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo(j,k)fluoranthene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[a]pyrene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Dibenz[a,h]anthracene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[g,h,i]perylene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>62</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>60</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>63</i>	<i>31 - 116</i>				

Date of Report: August 28, 2015
 Samples Submitted: August 27, 2015
 Laboratory Reference: 1508-267
 Project: 21138-001-03

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2 EX-B1-35.0					
Laboratory ID:	08-267-02					
Naphthalene	ND	0.0070	EPA 8270D/SIM	8-27-15	8-27-15	
2-Methylnaphthalene	ND	0.0070	EPA 8270D/SIM	8-27-15	8-27-15	
1-Methylnaphthalene	ND	0.0070	EPA 8270D/SIM	8-27-15	8-27-15	
Acenaphthylene	ND	0.0070	EPA 8270D/SIM	8-27-15	8-27-15	
Acenaphthene	ND	0.0070	EPA 8270D/SIM	8-27-15	8-27-15	
Fluorene	ND	0.0070	EPA 8270D/SIM	8-27-15	8-27-15	
Phenanthrene	ND	0.0070	EPA 8270D/SIM	8-27-15	8-27-15	
Anthracene	ND	0.0070	EPA 8270D/SIM	8-27-15	8-27-15	
Fluoranthene	ND	0.0070	EPA 8270D/SIM	8-27-15	8-27-15	
Pyrene	ND	0.0070	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[a]anthracene	ND	0.0070	EPA 8270D/SIM	8-27-15	8-27-15	
Chrysene	ND	0.0070	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[b]fluoranthene	ND	0.0070	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo(j,k)fluoranthene	ND	0.0070	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[a]pyrene	ND	0.0070	EPA 8270D/SIM	8-27-15	8-27-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0070	EPA 8270D/SIM	8-27-15	8-27-15	
Dibenz[a,h]anthracene	ND	0.0070	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[g,h,i]perylene	ND	0.0070	EPA 8270D/SIM	8-27-15	8-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>55</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>52</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>54</i>	<i>31 - 116</i>				

Date of Report: August 28, 2015
 Samples Submitted: August 27, 2015
 Laboratory Reference: 1508-267
 Project: 21138-001-03

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0827S1					
Benzene	ND	0.020	EPA 8021B	8-27-15	8-27-15	
Toluene	ND	0.050	EPA 8021B	8-27-15	8-27-15	
Ethyl Benzene	ND	0.050	EPA 8021B	8-27-15	8-27-15	
m,p-Xylene	ND	0.050	EPA 8021B	8-27-15	8-27-15	
o-Xylene	ND	0.050	EPA 8021B	8-27-15	8-27-15	
Gasoline	ND	5.0	NWTPH-Gx	8-27-15	8-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	84	68-123				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-267-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				89	94	68-123		

SPIKE BLANKS

Laboratory ID:	SB0827S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.887	0.952	1.00	1.00	89	95	75-117	7	13
Toluene	0.891	0.943	1.00	1.00	89	94	78-118	6	12
Ethyl Benzene	0.883	0.925	1.00	1.00	88	93	78-118	5	12
m,p-Xylene	0.903	0.980	1.00	1.00	90	98	78-121	8	13
o-Xylene	0.891	0.916	1.00	1.00	89	92	77-119	3	13
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					82	84	68-123		

Date of Report: August 28, 2015
 Samples Submitted: August 27, 2015
 Laboratory Reference: 1508-267
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0827S1					
Diesel Range Organics	ND	25	NWTPH-Dx	8-27-15	8-27-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-27-15	8-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>94</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-267-02							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				<i>83</i>	<i>87</i>	<i>50-150</i>		

Date of Report: August 28, 2015
 Samples Submitted: August 27, 2015
 Laboratory Reference: 1508-267
 Project: 21138-001-03

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0827S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>82</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>87</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>92</i>	<i>31 - 116</i>				

Date of Report: August 28, 2015
 Samples Submitted: August 27, 2015
 Laboratory Reference: 1508-267
 Project: 21138-001-03

**PAHs EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent		Recovery		RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	08-263-03										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	0.0583	0.0615	0.0833	0.0833	ND	70	74	44 - 107	5	29	
Acenaphthylene	0.0581	0.0652	0.0833	0.0833	ND	70	78	44 - 121	12	27	
Acenaphthene	0.0579	0.0636	0.0833	0.0833	ND	70	76	47 - 109	9	26	
Fluorene	0.0620	0.0653	0.0833	0.0833	ND	74	78	49 - 115	5	28	
Phenanthrene	0.0598	0.0638	0.0833	0.0833	ND	72	77	45 - 114	6	26	
Anthracene	0.100	0.110	0.0833	0.0833	ND	120	132	43 - 140	10	27	
Fluoranthene	0.0584	0.0641	0.0833	0.0833	ND	70	77	44 - 126	9	27	
Pyrene	0.0582	0.0636	0.0833	0.0833	ND	70	76	43 - 125	9	27	
Benzo[a]anthracene	0.0680	0.0727	0.0833	0.0833	ND	82	87	42 - 134	7	27	
Chrysene	0.0597	0.0654	0.0833	0.0833	ND	72	79	45 - 114	9	27	
Benzo[b]fluoranthene	0.0602	0.0651	0.0833	0.0833	ND	72	78	38 - 131	8	33	
Benzo(j,k)fluoranthene	0.0575	0.0636	0.0833	0.0833	ND	69	76	44 - 114	10	34	
Benzo[a]pyrene	0.0580	0.0638	0.0833	0.0833	ND	70	77	40 - 136	10	29	
Indeno(1,2,3-c,d)pyrene	0.0580	0.0623	0.0833	0.0833	ND	70	75	45 - 126	7	30	
Dibenz[a,h]anthracene	0.0597	0.0646	0.0833	0.0833	ND	72	78	46 - 121	8	28	
Benzo[g,h,i]perylene	0.0579	0.0626	0.0833	0.0833	ND	70	75	43 - 120	8	31	
<i>Surrogate:</i>											
2-Fluorobiphenyl						67	84	32 - 114			
Pyrene-d10						71	78	33 - 121			
Terphenyl-d14						75	84	31 - 116			

Date of Report: August 28, 2015
Samples Submitted: August 27, 2015
Laboratory Reference: 1508-267
Project: 21138-001-03

% MOISTURE

Date Analyzed: 8-27-15

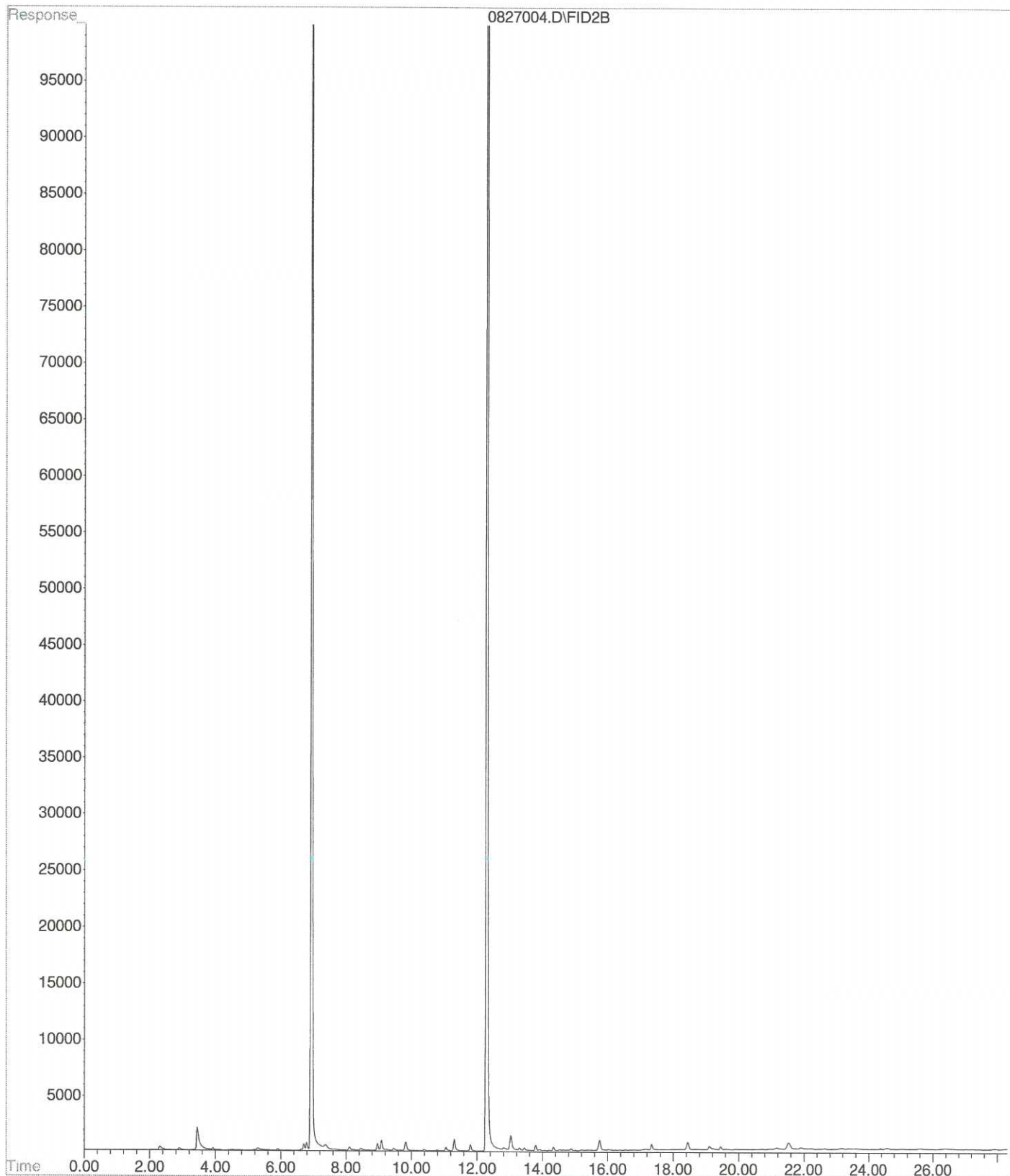
Client ID	Lab ID	% Moisture
UST2 EX-E-35.0	08-267-01	22
UST2 EX-B1-35.0	08-267-02	5



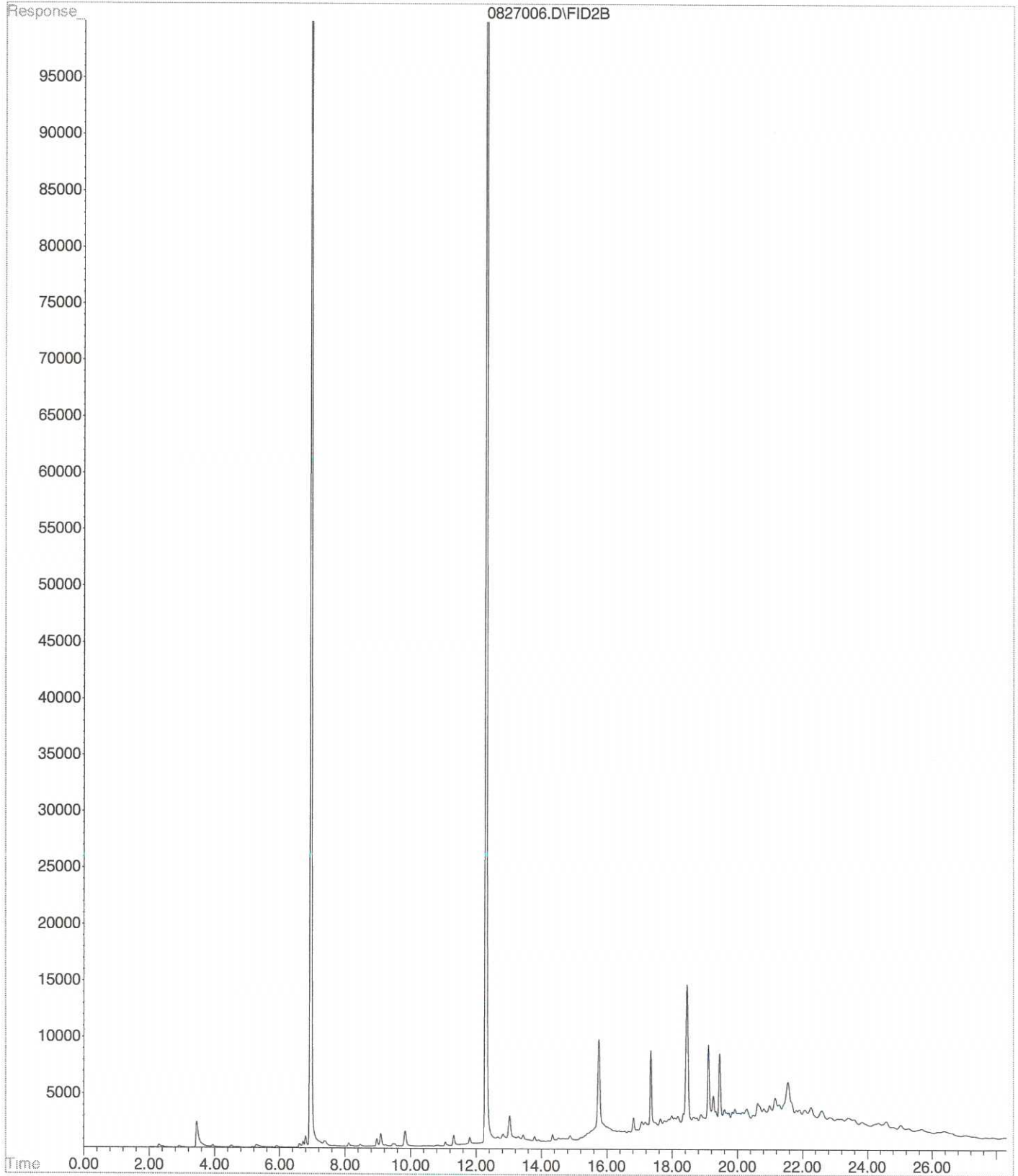
Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

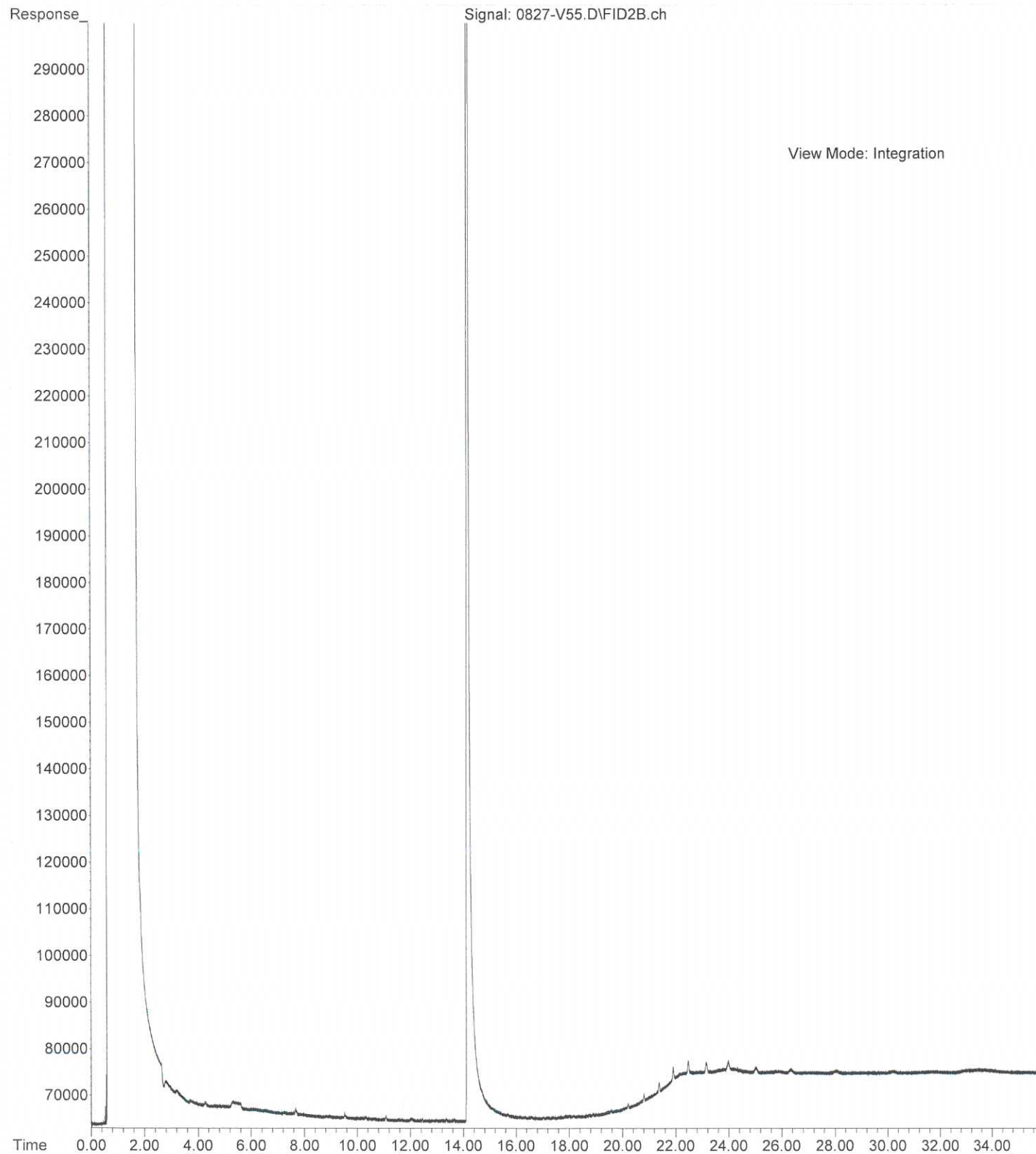
File : X:\BTEX\DARYL\DATA\D150827\0827004.D
Operator :
Acquired : 27 Aug 2015 12:40 using AcqMethod 150709B.M
Instrument : Daryl
Sample Name: 08-267-01s
Misc Info : V2-37-21
Vial Number: 4



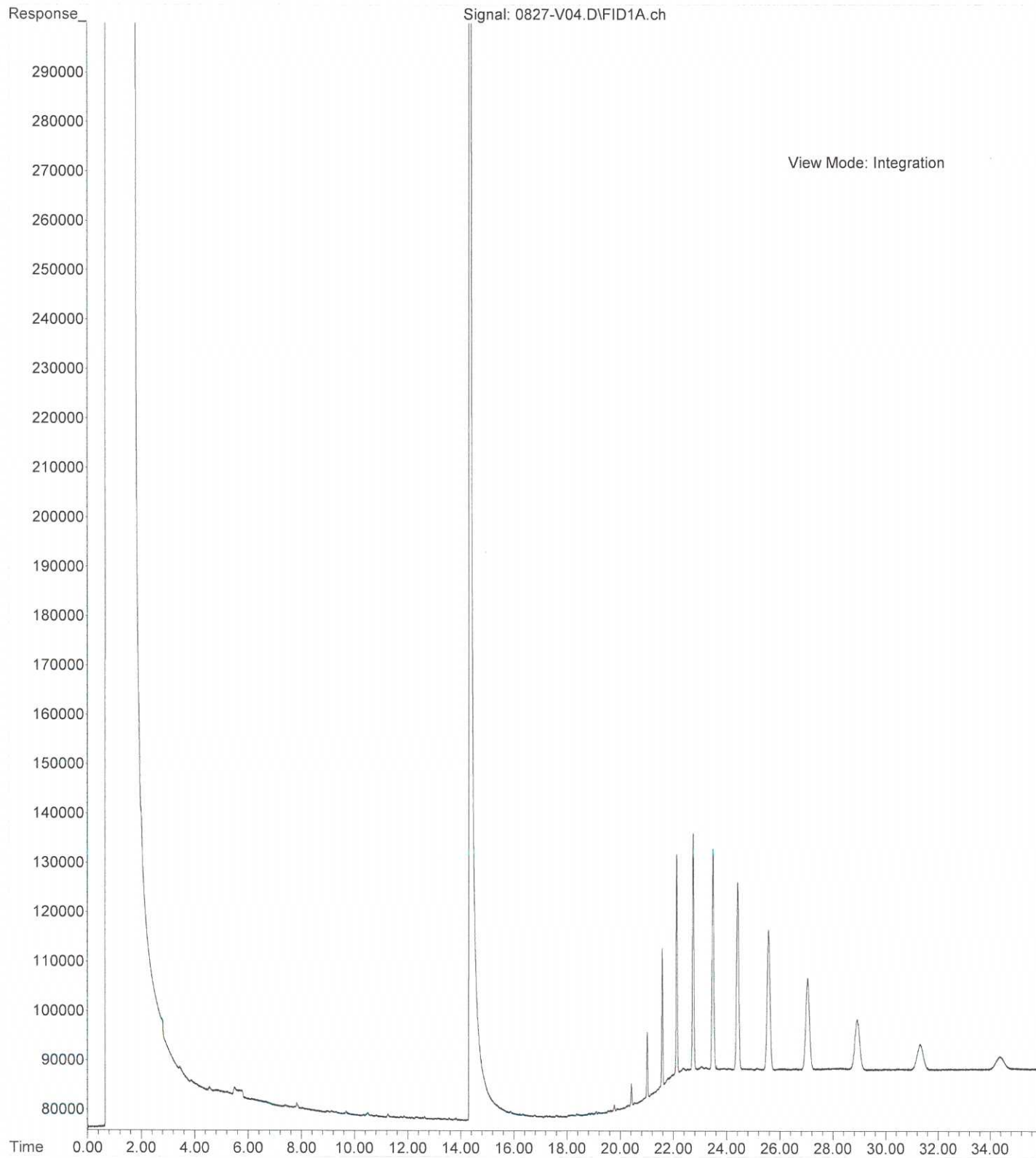
File : X:\BTEX\DARYL\DATA\D150827\0827006.D
Operator :
Acquired : 27 Aug 2015 13:49 using AcqMethod 150709B.M
Instrument : Daryl
Sample Name: 08-267-02s
Misc Info : V2-37-21
Vial Number: 6



File :X:\DIESELS\VIGO\DATA\V150827.SEC\0827-V55.D
Operator :
Acquired : 27 Aug 2015 13:12 using AcqMethod V150507F.M
Instrument : Vigo
Sample Name: 08-267-01
Misc Info :
Vial Number: 55



File :X:\DIESELS\VIGO\DATA\V150827\0827-V04.D
Operator :
Acquired : 27 Aug 2015 12:30 using AcqMethod V150507F.M
Instrument : Vigo
Sample Name: 08-267-02
Misc Info :
Vial Number: 4





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 21, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1508-200

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on August 19, 2015.

Please note that this is a *revised* report, and replaces the original due to a revision of the sample identification.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: August 21, 2015
Samples Submitted: August 19, 2015
Laboratory Reference: 1508-200
Project: 21138-001-03

Case Narrative

Samples were collected on August 18, 2015 and received by the laboratory on August 19, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: August 21, 2015
Samples Submitted: August 19, 2015
Laboratory Reference: 1508-200
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
HOIST-EX-7.0	08-200-01	Soil	8-18-15	8-19-15	
UST2EX-S1-24.0	08-200-02	Soil	8-18-15	8-19-15	

Date of Report: August 21, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-200
 Project: 21138-001-03

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-S1-24.0					
Laboratory ID:	08-200-02					
Benzene	ND	0.020	EPA 8021B	8-19-15	8-19-15	
Toluene	ND	0.076	EPA 8021B	8-19-15	8-19-15	
Ethyl Benzene	ND	0.076	EPA 8021B	8-19-15	8-19-15	
m,p-Xylene	ND	0.076	EPA 8021B	8-19-15	8-19-15	
o-Xylene	ND	0.076	EPA 8021B	8-19-15	8-19-15	
Gasoline	ND	7.6	NWTPH-Gx	8-19-15	8-19-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>87</i>	<i>68-123</i>				

Date of Report: August 21, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-200
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HOIST-EX-7.0					
Laboratory ID:	08-200-01					
Diesel Range Organics	ND	31	NWTPH-Dx	8-20-15	8-20-15	
Lube Oil Range Organics	ND	62	NWTPH-Dx	8-20-15	8-20-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	71	50-150				
Client ID:	UST2EX-S1-24.0					
Laboratory ID:	08-200-02					
Diesel Range Organics	ND	33	NWTPH-Dx	8-20-15	8-20-15	
Lube Oil Range Organics	ND	65	NWTPH-Dx	8-20-15	8-20-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	73	50-150				

Date of Report: August 21, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-200
 Project: 21138-001-03

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0819S1					
Benzene	ND	0.020	EPA 8021B	8-19-15	8-19-15	
Toluene	ND	0.050	EPA 8021B	8-19-15	8-19-15	
Ethyl Benzene	ND	0.050	EPA 8021B	8-19-15	8-19-15	
m,p-Xylene	ND	0.050	EPA 8021B	8-19-15	8-19-15	
o-Xylene	ND	0.050	EPA 8021B	8-19-15	8-19-15	
Gasoline	ND	5.0	NWTPH-Gx	8-19-15	8-19-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	81	68-123				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-097-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				86	87	68-123		

SPIKE BLANKS

Laboratory ID:	SB0819S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.876	0.912	1.00	1.00	88	91	75-117	4	13
Toluene	0.866	0.906	1.00	1.00	87	91	78-118	5	12
Ethyl Benzene	0.851	0.892	1.00	1.00	85	89	78-118	5	12
m,p-Xylene	0.865	0.906	1.00	1.00	87	91	78-121	5	13
o-Xylene	0.866	0.902	1.00	1.00	87	90	77-119	4	13
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					81	85	68-123		

Date of Report: August 21, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-200
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0820S1					
Diesel Range Organics	ND	25	NWTPH-Dx	8-20-15	8-20-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-20-15	8-20-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>111</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-203-04							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil	71.9	65.6	NA	NA	NA	NA	9	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				<i>101</i>	<i>95</i>	<i>50-150</i>		

Date of Report: August 21, 2015
Samples Submitted: August 19, 2015
Laboratory Reference: 1508-200
Project: 21138-001-03

% MOISTURE

Date Analyzed: 8-20-15

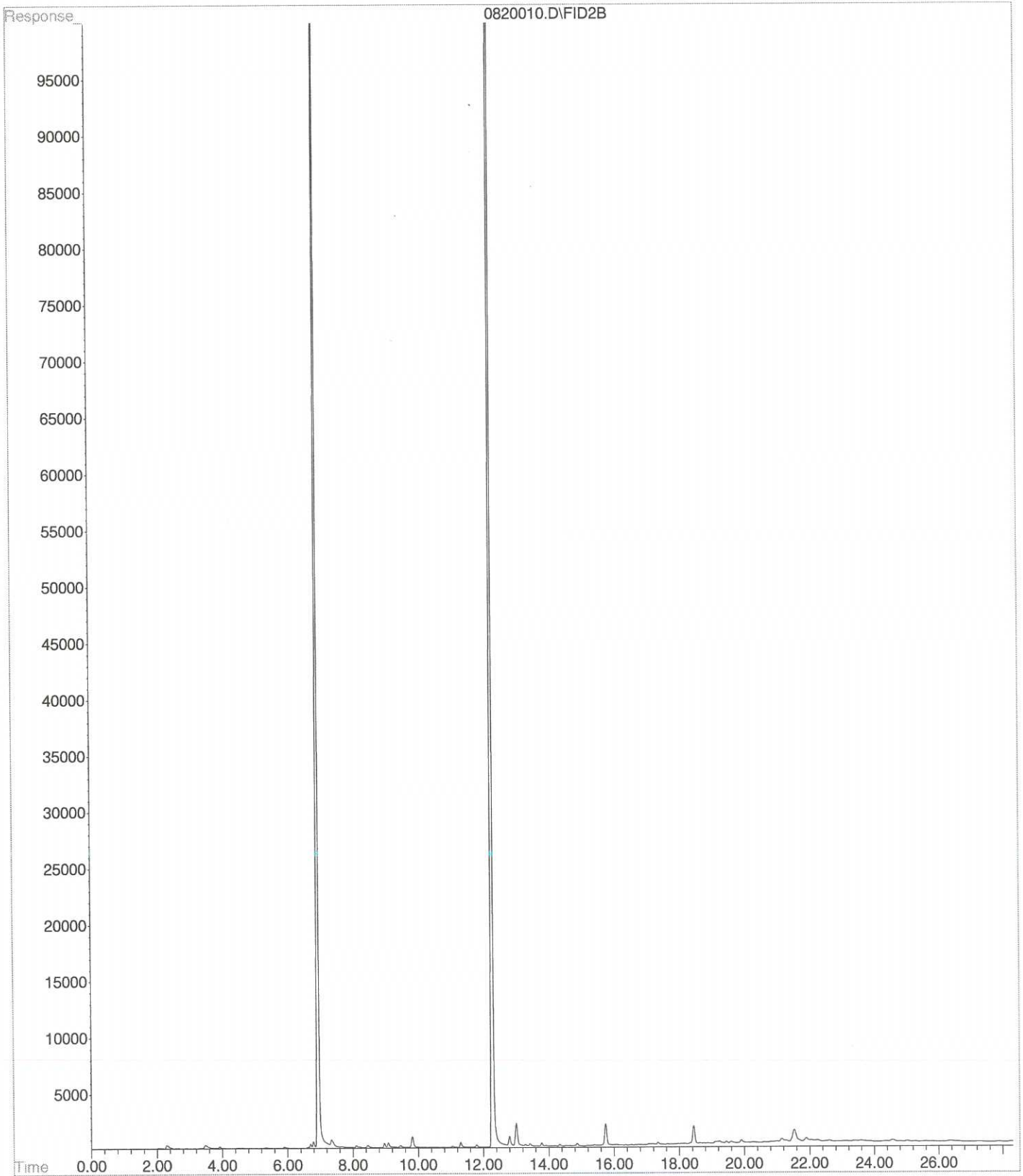
Client ID	Lab ID	% Moisture
HOIST-EX-7.0	08-200-01	19
UST2EX-S1-24.0	08-200-02	23



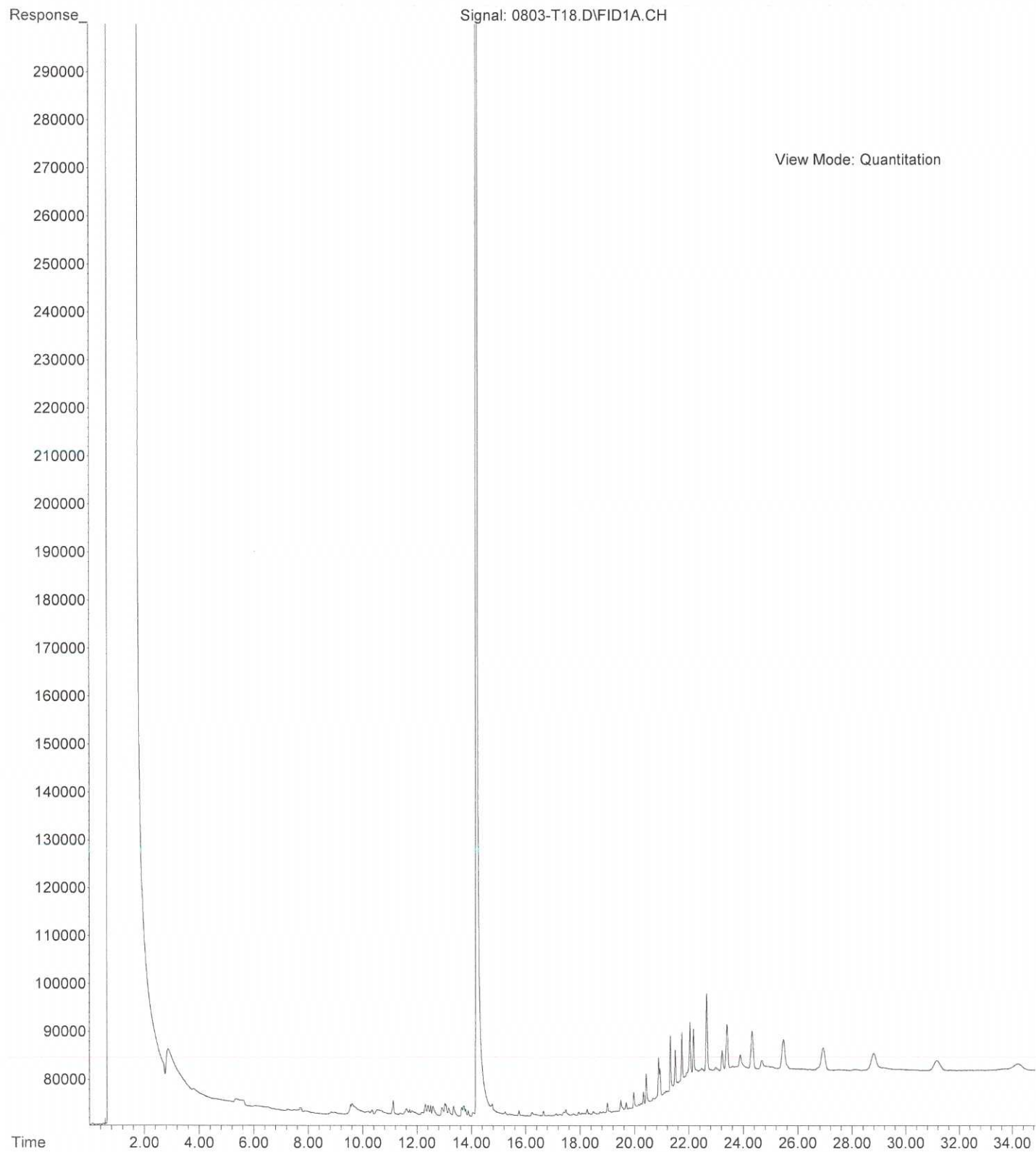
Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

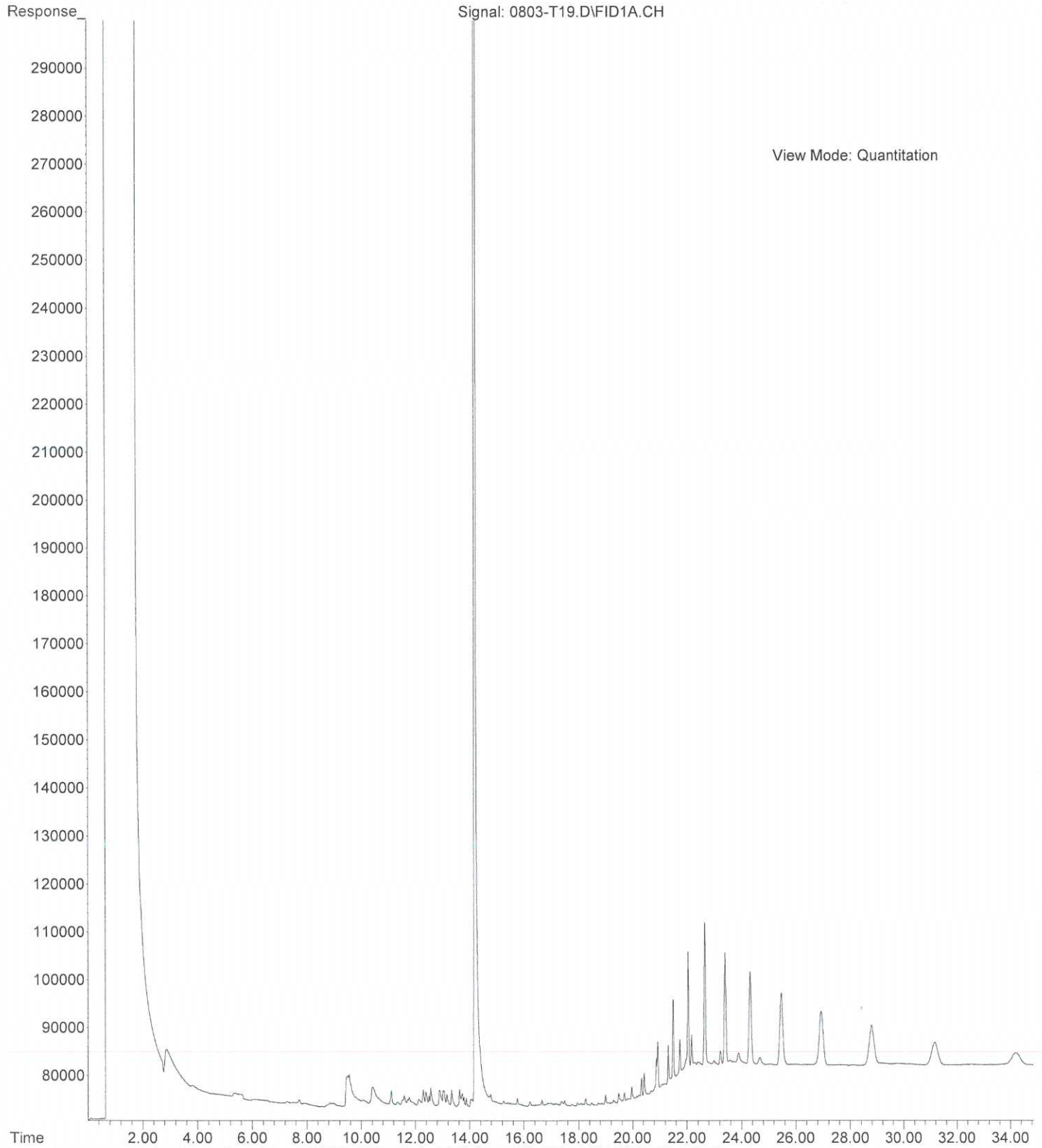
File : X:\BTEX\DARYL\DATA\D150820\0820010.D
Operator :
Acquired : 20 Aug 2015 19:20 using AcqMethod 150709B.M
Instrument : Daryl
Sample Name: 08-200-02s
Misc Info : V2-37-21
Vial Number: 10



File :X:\DIESELS\TERI\DATA\T150820\0803-T18.D
Operator : ZT
Acquired : 21 Aug 2015 3:40 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-200-01
Misc Info :
Vial Number: 18



File :X:\DIESELS\TERI\DATA\T150820\0803-T19.D
Operator : ZT
Acquired : 21 Aug 2015 4:23 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-200-02
Misc Info :
Vial Number: 19





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 25, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1508-216

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on August 21, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 25, 2015
Samples Submitted: August 21, 2015
Laboratory Reference: 1508-216
Project: 21138-001-03

Case Narrative

Samples were collected on August 20, 2015 and received by the laboratory on August 21, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 25, 2015
Samples Submitted: August 21, 2015
Laboratory Reference: 1508-216
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UST2EX-E-24.0	08-216-01	Soil	8-20-15	8-21-15	
UST2EX-S2-22.0	08-216-02	Soil	8-20-15	8-21-15	
UST2EX-W1-22.0	08-216-03	Soil	8-20-15	8-21-15	
UST2EX-W1-24.0	08-216-04	Soil	8-20-15	8-21-15	
UST2EX-W2-24.0	08-216-05	Soil	8-20-15	8-21-15	

Date of Report: August 25, 2015
 Samples Submitted: August 21, 2015
 Laboratory Reference: 1508-216
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-E-24.0					
Laboratory ID:	08-216-01					
Diesel Range Organics	ND	32	NWTPH-Dx	8-21-15	8-21-15	
Lube Oil Range Organics	ND	64	NWTPH-Dx	8-21-15	8-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	95	50-150				
Client ID:	UST2EX-S2-22.0					
Laboratory ID:	08-216-02					
Diesel Range Organics	ND	31	NWTPH-Dx	8-21-15	8-21-15	
Lube Oil Range Organics	ND	61	NWTPH-Dx	8-21-15	8-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				
Client ID:	UST2EX-W1-22.0					
Laboratory ID:	08-216-03					
Diesel Range Organics	ND	32	NWTPH-Dx	8-21-15	8-21-15	
Lube Oil Range Organics	ND	64	NWTPH-Dx	8-21-15	8-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	97	50-150				
Client ID:	UST2EX-W1-24.0					
Laboratory ID:	08-216-04					
Diesel Range Organics	1700	33	NWTPH-Dx	8-21-15	8-21-15	
Lube Oil	19000	1300	NWTPH-Dx	8-21-15	8-24-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	---	50-150				S
Client ID:	UST2EX-W2-24.0					
Laboratory ID:	08-216-05					
Diesel Range Organics	ND	32	NWTPH-Dx	8-21-15	8-21-15	
Lube Oil Range Organics	ND	63	NWTPH-Dx	8-21-15	8-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	50-150				

Date of Report: August 25, 2015
 Samples Submitted: August 21, 2015
 Laboratory Reference: 1508-216
 Project: 21138-001-03

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-E-24.0					
Laboratory ID:	08-216-01					
Naphthalene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
2-Methylnaphthalene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
1-Methylnaphthalene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Acenaphthylene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Acenaphthene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Fluorene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Phenanthrene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Anthracene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Fluoranthene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Pyrene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[a]anthracene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Chrysene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[b]fluoranthene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo(j,k)fluoranthene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[a]pyrene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Dibenz[a,h]anthracene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[g,h,i]perylene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>85</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>68</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>83</i>	<i>31 - 116</i>				

Date of Report: August 25, 2015
 Samples Submitted: August 21, 2015
 Laboratory Reference: 1508-216
 Project: 21138-001-03

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-S2-22.0					
Laboratory ID:	08-216-02					
Naphthalene	0.0088	0.0081	EPA 8270D/SIM	8-21-15	8-22-15	
2-Methylnaphthalene	0.029	0.0081	EPA 8270D/SIM	8-21-15	8-22-15	
1-Methylnaphthalene	0.019	0.0081	EPA 8270D/SIM	8-21-15	8-22-15	
Acenaphthylene	ND	0.0081	EPA 8270D/SIM	8-21-15	8-22-15	
Acenaphthene	ND	0.0081	EPA 8270D/SIM	8-21-15	8-22-15	
Fluorene	ND	0.0081	EPA 8270D/SIM	8-21-15	8-22-15	
Phenanthrene	ND	0.0081	EPA 8270D/SIM	8-21-15	8-22-15	
Anthracene	ND	0.0081	EPA 8270D/SIM	8-21-15	8-22-15	
Fluoranthene	ND	0.0081	EPA 8270D/SIM	8-21-15	8-22-15	
Pyrene	ND	0.0081	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[a]anthracene	ND	0.0081	EPA 8270D/SIM	8-21-15	8-22-15	
Chrysene	ND	0.0081	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[b]fluoranthene	ND	0.0081	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo(j,k)fluoranthene	ND	0.0081	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[a]pyrene	ND	0.0081	EPA 8270D/SIM	8-21-15	8-22-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0081	EPA 8270D/SIM	8-21-15	8-22-15	
Dibenz[a,h]anthracene	ND	0.0081	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[g,h,i]perylene	ND	0.0081	EPA 8270D/SIM	8-21-15	8-22-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>77</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>69</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>83</i>	<i>31 - 116</i>				

Date of Report: August 25, 2015
 Samples Submitted: August 21, 2015
 Laboratory Reference: 1508-216
 Project: 21138-001-03

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-W1-22.0					
Laboratory ID:	08-216-03					
Naphthalene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
2-Methylnaphthalene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
1-Methylnaphthalene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Acenaphthylene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Acenaphthene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Fluorene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Phenanthrene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Anthracene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Fluoranthene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Pyrene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[a]anthracene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Chrysene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[b]fluoranthene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo(j,k)fluoranthene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[a]pyrene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Dibenz[a,h]anthracene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[g,h,i]perylene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>79</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>70</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>87</i>	<i>31 - 116</i>				

Date of Report: August 25, 2015
 Samples Submitted: August 21, 2015
 Laboratory Reference: 1508-216
 Project: 21138-001-03

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-W1-24.0					
Laboratory ID:	08-216-04					
Naphthalene	1.3	0.044	EPA 8270D/SIM	8-21-15	8-24-15	
2-Methylnaphthalene	2.8	0.044	EPA 8270D/SIM	8-21-15	8-24-15	
1-Methylnaphthalene	1.9	0.044	EPA 8270D/SIM	8-21-15	8-24-15	
Acenaphthylene	0.036	0.0089	EPA 8270D/SIM	8-21-15	8-24-15	
Acenaphthene	0.080	0.044	EPA 8270D/SIM	8-21-15	8-24-15	
Fluorene	0.16	0.044	EPA 8270D/SIM	8-21-15	8-24-15	
Phenanthrene	0.40	0.044	EPA 8270D/SIM	8-21-15	8-24-15	
Anthracene	0.15	0.044	EPA 8270D/SIM	8-21-15	8-24-15	
Fluoranthene	0.21	0.044	EPA 8270D/SIM	8-21-15	8-24-15	
Pyrene	0.42	0.044	EPA 8270D/SIM	8-21-15	8-24-15	
Benzo[a]anthracene	0.17	0.044	EPA 8270D/SIM	8-21-15	8-24-15	
Chrysene	0.15	0.044	EPA 8270D/SIM	8-21-15	8-24-15	
Benzo[b]fluoranthene	0.12	0.044	EPA 8270D/SIM	8-21-15	8-24-15	
Benzo(j,k)fluoranthene	ND	0.044	EPA 8270D/SIM	8-21-15	8-24-15	
Benzo[a]pyrene	0.11	0.044	EPA 8270D/SIM	8-21-15	8-24-15	
Indeno(1,2,3-c,d)pyrene	0.072	0.044	EPA 8270D/SIM	8-21-15	8-24-15	
Dibenz[a,h]anthracene	ND	0.044	EPA 8270D/SIM	8-21-15	8-24-15	
Benzo[g,h,i]perylene	0.13	0.044	EPA 8270D/SIM	8-21-15	8-24-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>74</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>73</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>100</i>	<i>31 - 116</i>				

Date of Report: August 25, 2015
 Samples Submitted: August 21, 2015
 Laboratory Reference: 1508-216
 Project: 21138-001-03

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-W2-24.0					
Laboratory ID:	08-216-05					
Naphthalene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
2-Methylnaphthalene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
1-Methylnaphthalene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Acenaphthylene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Acenaphthene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Fluorene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Phenanthrene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Anthracene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Fluoranthene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Pyrene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[a]anthracene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Chrysene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[b]fluoranthene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo(j,k)fluoranthene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[a]pyrene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Dibenz[a,h]anthracene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[g,h,i]perylene	ND	0.0085	EPA 8270D/SIM	8-21-15	8-22-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>67</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>59</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>73</i>	<i>31 - 116</i>				

Date of Report: August 25, 2015
 Samples Submitted: August 21, 2015
 Laboratory Reference: 1508-216
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0821S1					
Diesel Range Organics	ND	25	NWTPH-Dx	8-21-15	8-21-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-21-15	8-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>101</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-215-04							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				111	99	50-150		

Date of Report: August 25, 2015
 Samples Submitted: August 21, 2015
 Laboratory Reference: 1508-216
 Project: 21138-001-03

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0821S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-21-15	8-22-15	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-21-15	8-22-15	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-21-15	8-22-15	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-21-15	8-22-15	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-21-15	8-22-15	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-21-15	8-22-15	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-21-15	8-22-15	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-21-15	8-22-15	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-21-15	8-22-15	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-21-15	8-22-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-21-15	8-22-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-21-15	8-22-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-21-15	8-22-15	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-21-15	8-22-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	99	32 - 114				
<i>Pyrene-d10</i>	77	33 - 121				
<i>Terphenyl-d14</i>	96	31 - 116				

Date of Report: August 25, 2015
 Samples Submitted: August 21, 2015
 Laboratory Reference: 1508-216
 Project: 21138-001-03

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0821S1									
Naphthalene	0.0683	0.0624	0.0833	0.0833	82	75	63 - 113	9	19	
Acenaphthylene	0.0731	0.0651	0.0833	0.0833	88	78	61 - 125	12	16	
Acenaphthene	0.0755	0.0669	0.0833	0.0833	91	80	66 - 113	12	16	
Fluorene	0.0681	0.0614	0.0833	0.0833	82	74	60 - 117	10	16	
Phenanthrene	0.0645	0.0576	0.0833	0.0833	77	69	63 - 116	11	12	
Anthracene	0.104	0.0933	0.0833	0.0833	125	112	66 - 146	11	19	
Fluoranthene	0.0610	0.0560	0.0833	0.0833	73	67	60 - 125	9	13	
Pyrene	0.0679	0.0632	0.0833	0.0833	82	76	66 - 126	7	15	
Benzo[a]anthracene	0.0805	0.0740	0.0833	0.0833	97	89	60 - 128	8	15	
Chrysene	0.0647	0.0606	0.0833	0.0833	78	73	60 - 117	7	13	
Benzo[b]fluoranthene	0.0654	0.0623	0.0833	0.0833	79	75	60 - 131	5	16	
Benzo(j,k)fluoranthene	0.0702	0.0631	0.0833	0.0833	84	76	57 - 126	11	20	
Benzo[a]pyrene	0.0710	0.0655	0.0833	0.0833	85	79	62 - 136	8	16	
Indeno(1,2,3-c,d)pyrene	0.0687	0.0628	0.0833	0.0833	82	75	60 - 127	9	19	
Dibenz[a,h]anthracene	0.0655	0.0607	0.0833	0.0833	79	73	62 - 133	8	22	
Benzo[g,h,i]perylene	0.0689	0.0637	0.0833	0.0833	83	76	63 - 129	8	22	
<i>Surrogate:</i>										
2-Fluorobiphenyl					105	84	32 - 114			
Pyrene-d10					82	76	33 - 121			
Terphenyl-d14					99	94	31 - 116			

Date of Report: August 25, 2015
Samples Submitted: August 21, 2015
Laboratory Reference: 1508-216
Project: 21138-001-03

% MOISTURE

Date Analyzed: 8-21-15

Client ID	Lab ID	% Moisture
UST2EX-E-24.0	08-216-01	22
UST2EX-S2-22.0	08-216-02	18
UST2EX-W1-22.0	08-216-03	22
UST2EX-W1-24.0	08-216-04	25
UST2EX-W2-24.0	08-216-05	21



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Onsite Environmental Inc.

Analytical Laboratory Testing Services
14848 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number:

08-216

Company: **GED ENGINEERS**
Project Number: **2138-001-03**
Project Name: **9th & Lenora Projects**
Project Manager: **FASIH KHAN**
Sampled by: **FASIH KHAN**

Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix

1	SUD UST2EX-E-24.0	8/20/15	1330	S
2	SUDUST2EX-S2-22.10		1130	
3	SUDUST2EX-W1-22.10		1310	
4	SUDUST2EX-W1-24.0		1230	
5	SUDUST2EX-W2-24.0		1410	

Number of Containers

	NWTPH-HCID	
	NWTPH-Gx/BTEX	
	NWTPH-Gx	
	NWTPH-Dx	(X)
	Volatiles 8260C	(X)
	Halogenated Volatiles 8260C	(X)
	Semivolatiles 8270D/SIM (with low-level PAHs)	(X)
	PAHs 8270D/SIM (low-level)	(X)
	PCBs 8082A	(X)
	Organochlorine Pesticides 8081B	(X)
	Organophosphorus Pesticides 8270D/SIM	(X)
	Chlorinated Acid Herbicides 8151A	(X)
	Total RCRA Metals	(X)
	Total MTCA Metals	(X)
	TCLP Metals	(X)
	HEM (oil and grease) 1664A	(X)
	1 DAY TA	
	% Moisture	(X)

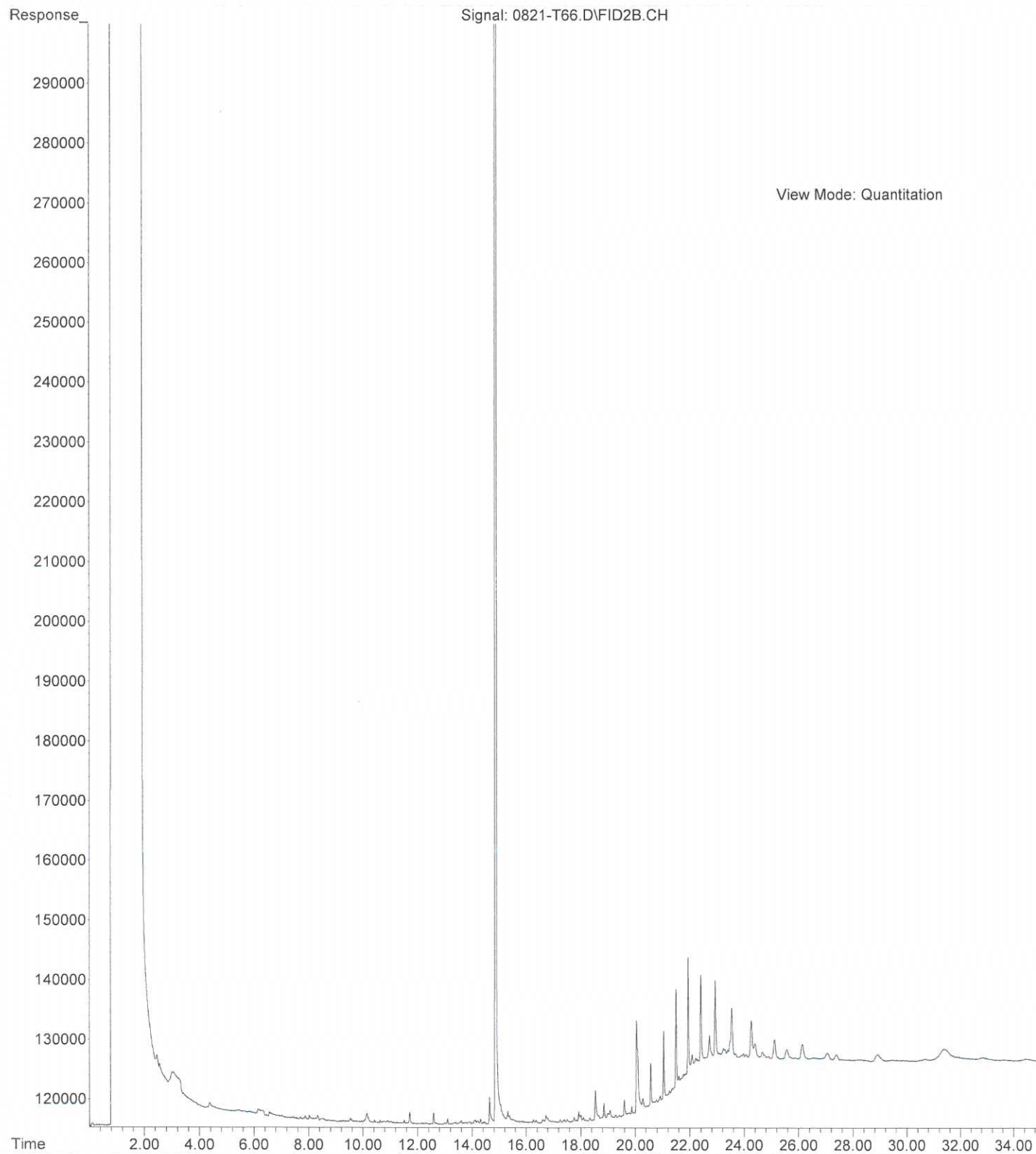
Signature	Company	Date	Time	Comments/Special Instructions
	GET	8/21/15	0835	
	SSC	8/21/15	0835	

Relinquished
Received
Relinquished
Received
Relinquished
Received
Reviewed/Date

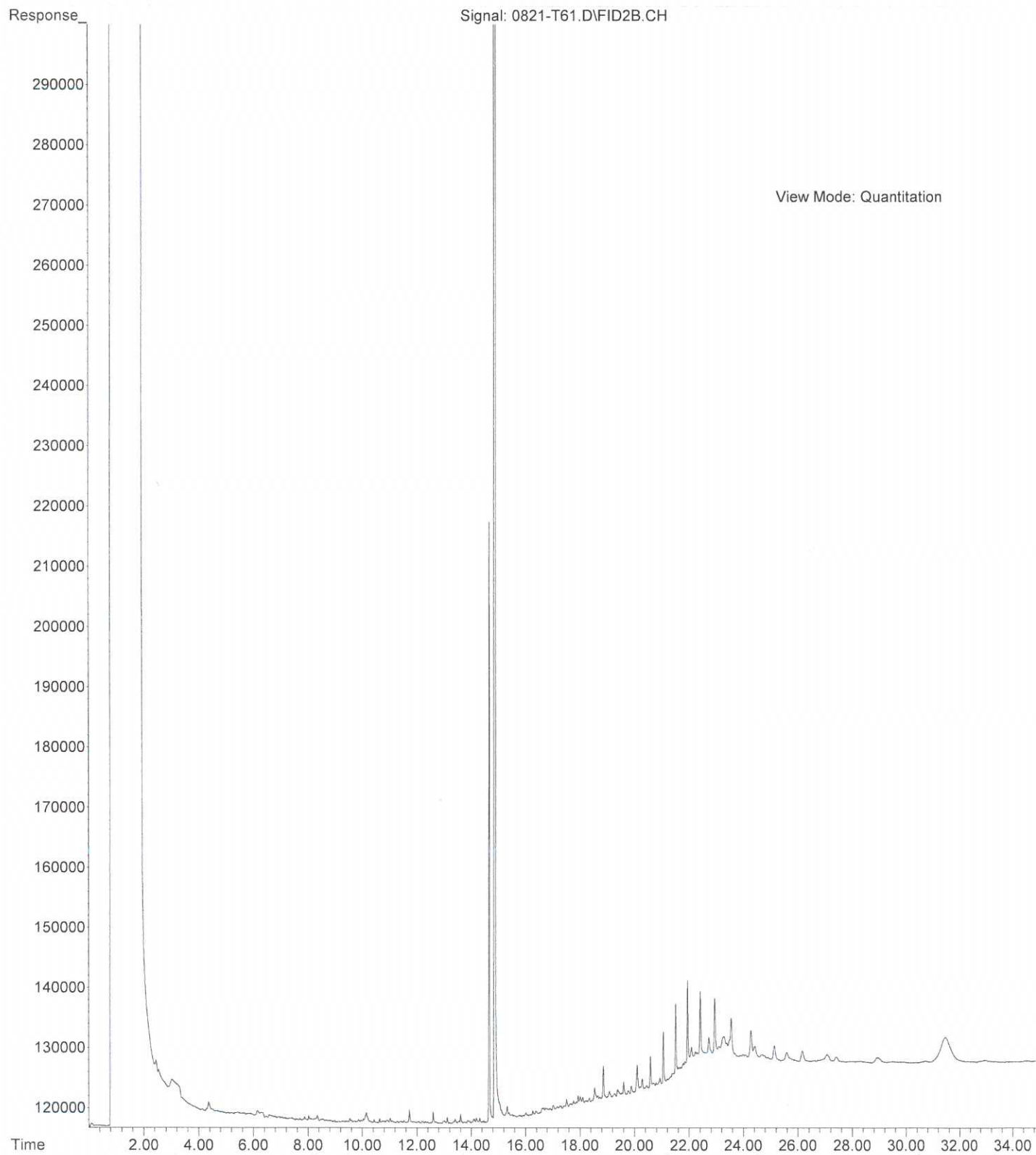
Reviewed/Date

Chromatograms with final report

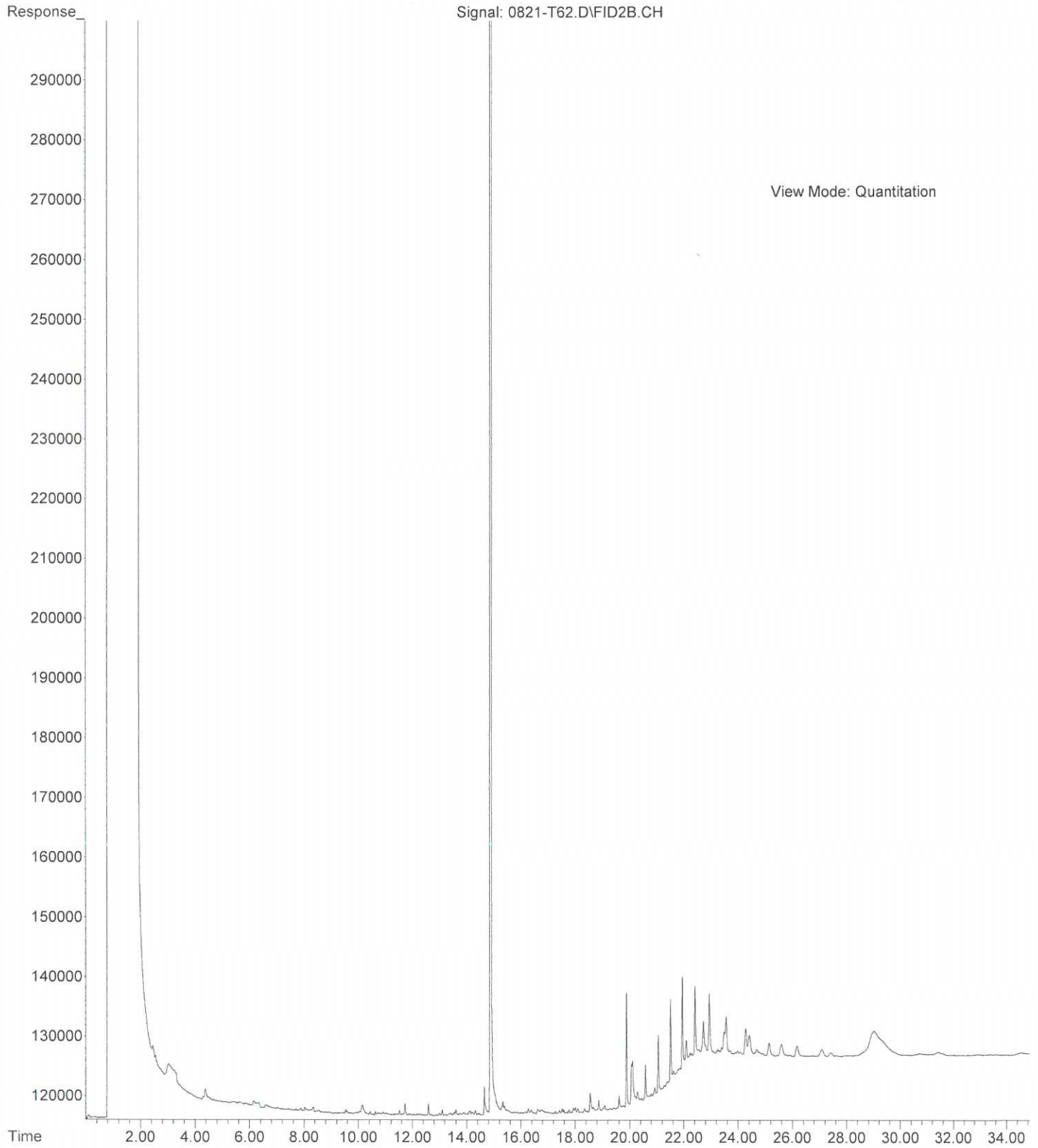
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Acquired : 21 Aug 2015 23:45 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-216-01
Misc Info :
Vial Number: 66



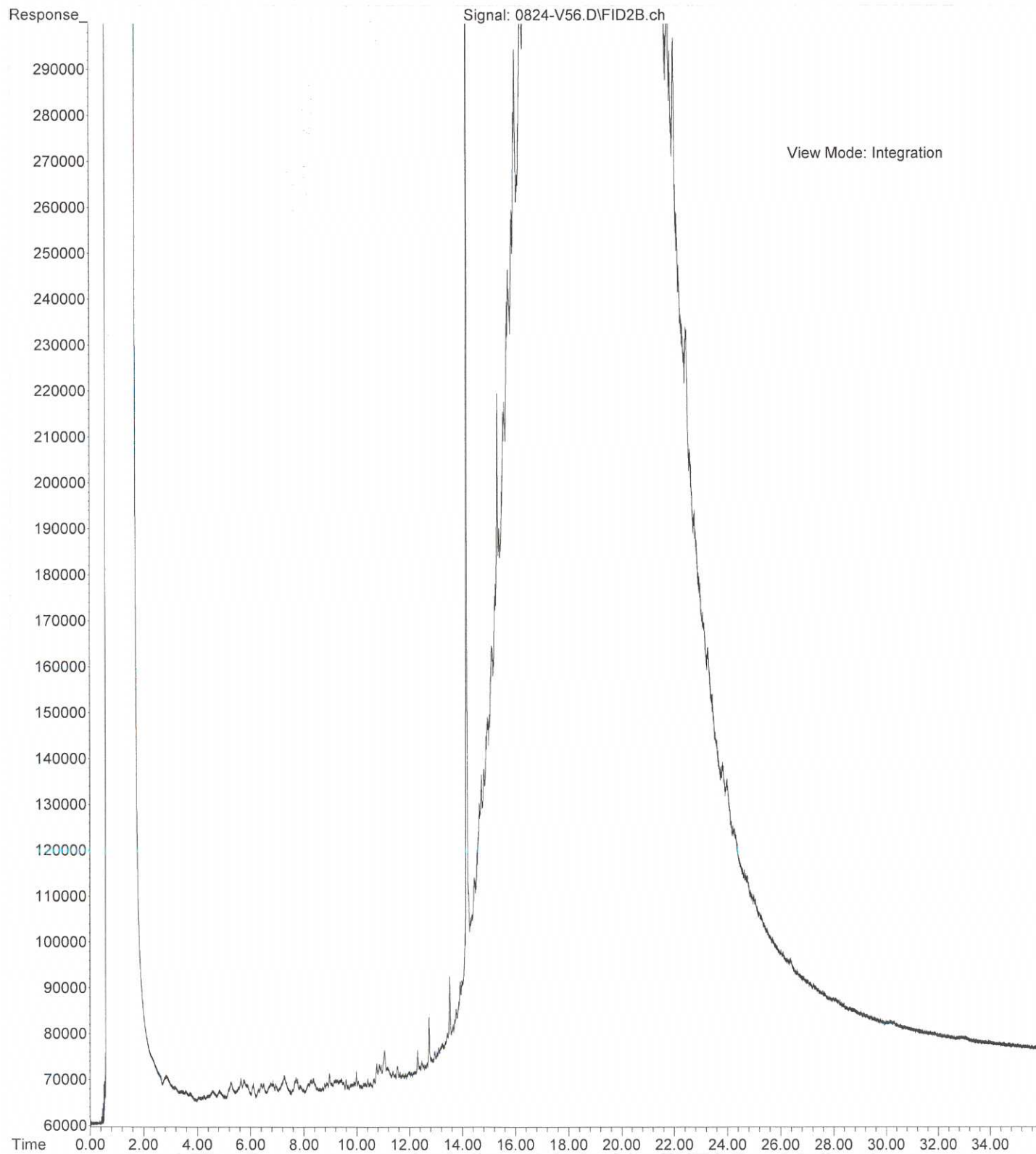
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Operator : ZT
Acquired : 21 Aug 2015 20:09 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-216-02
Misc Info :
Vial Number: 61



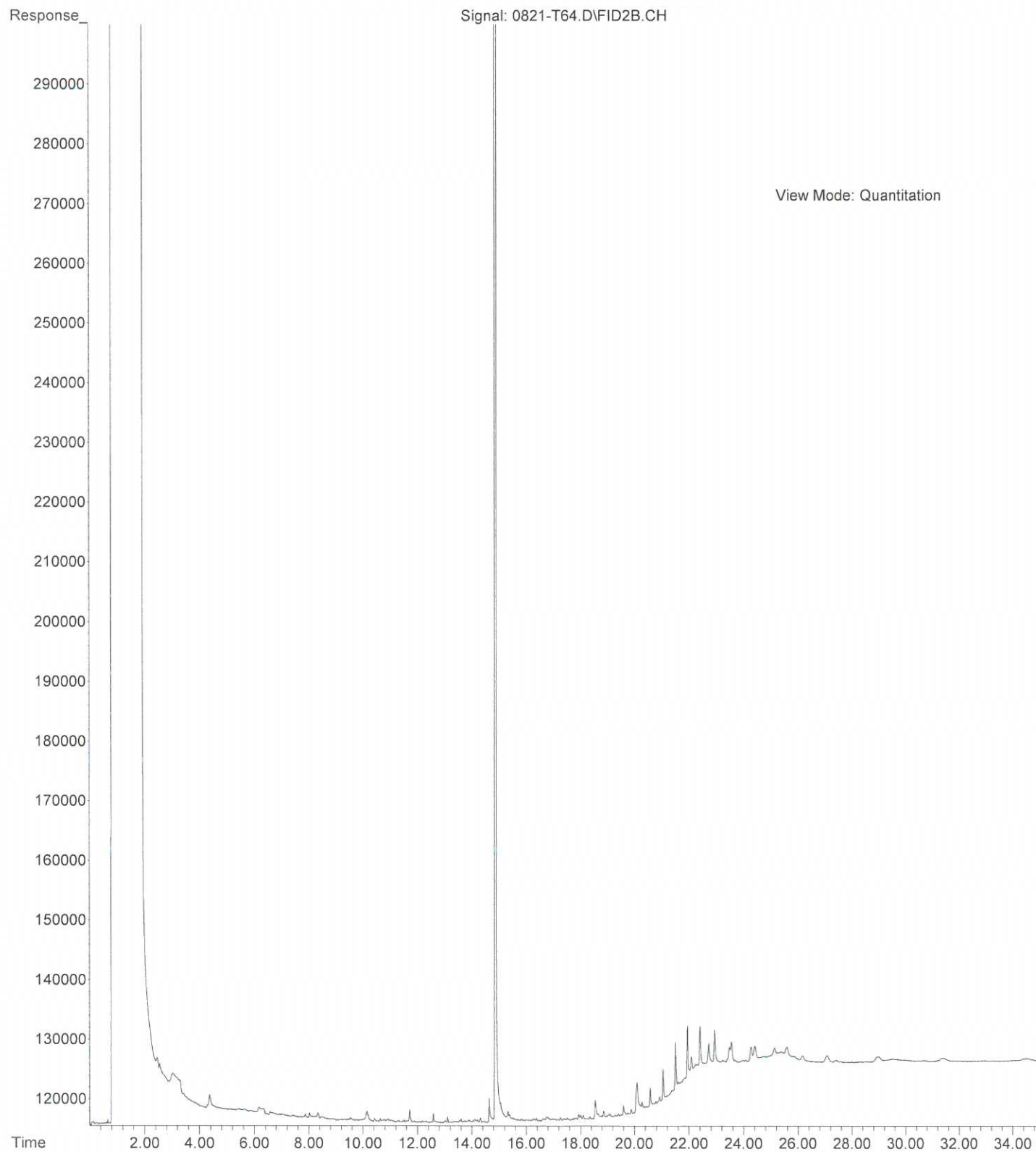
File :X:\DIESELS\TERI\DATA\T150821.SEC\0821-T62.D
Operator : ZT
Acquired : 21 Aug 2015 20:52 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-216-03
Misc Info :
Vial Number: 62



File :X:\DIESELS\VIGO\DATA\V150824.SEC\0824-V56.D
Operator :
Acquired : 24 Aug 2015 12:57 using AcqMethod V150507F.M
Instrument : Vigo
Sample Name: 08-216-04 20X
Misc Info :
Vial Number: 56



File : X:\DIESELS\TERI\DATA\T150821.SEC\0821-T64.D
Operator : ZT
Acquired : 21 Aug 2015 22:19 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-216-05
Misc Info :
Vial Number: 64





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 1, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1508-268

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on August 27, 2015.

Please note that this is a *revised* report, and replaces the original due to a revision of the sample identification.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: September 1, 2015
Samples Submitted: August 27, 2015
Laboratory Reference: 1508-268
Project: 21138-001-03

Case Narrative

Samples were collected on August 26, 2015 and received by the laboratory on August 27, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: September 1, 2015
Samples Submitted: August 27, 2015
Laboratory Reference: 1508-268
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UST2 EX-N-33.0	08-268-01	Soil	8-26-15	8-27-15	
UST2 EX-W3-30.0	08-268-02	Soil	8-26-15	8-27-15	

Date of Report: September 1, 2015
 Samples Submitted: August 27, 2015
 Laboratory Reference: 1508-268
 Project: 21138-001-03

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2 EX-N-33.0					
Laboratory ID:	08-268-01					
Benzene	ND	0.020	EPA 8021B	8-27-15	8-27-15	
Toluene	ND	0.064	EPA 8021B	8-27-15	8-27-15	
Ethyl Benzene	ND	0.064	EPA 8021B	8-27-15	8-27-15	
m,p-Xylene	ND	0.064	EPA 8021B	8-27-15	8-27-15	
o-Xylene	ND	0.064	EPA 8021B	8-27-15	8-27-15	
Gasoline	ND	6.4	NWTPH-Gx	8-27-15	8-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	97	68-123				
Client ID:	UST2 EX-W3-30.0					
Laboratory ID:	08-268-02					
Benzene	ND	0.020	EPA 8021B	8-27-15	8-27-15	
Toluene	ND	0.064	EPA 8021B	8-27-15	8-27-15	
Ethyl Benzene	ND	0.064	EPA 8021B	8-27-15	8-27-15	
m,p-Xylene	ND	0.064	EPA 8021B	8-27-15	8-27-15	
o-Xylene	ND	0.064	EPA 8021B	8-27-15	8-27-15	
Gasoline	ND	6.4	NWTPH-Gx	8-27-15	8-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	111	68-123				

Date of Report: September 1, 2015
 Samples Submitted: August 27, 2015
 Laboratory Reference: 1508-268
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2 EX-N-33.0					
Laboratory ID:	08-268-01					
Diesel Range Organics	ND	33	NWTPH-Dx	8-27-15	8-31-15	
Lube Oil Range Organics	ND	66	NWTPH-Dx	8-27-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	79	50-150				
Client ID:	UST2 EX-W3-30.0					
Laboratory ID:	08-268-02					
Diesel Range Organics	ND	32	NWTPH-Dx	8-27-15	8-31-15	
Lube Oil Range Organics	ND	65	NWTPH-Dx	8-27-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	99	50-150				

Date of Report: September 1, 2015
 Samples Submitted: August 27, 2015
 Laboratory Reference: 1508-268
 Project: 21138-001-03

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2 EX-N-33.0					
Laboratory ID:	08-268-01					
Naphthalene	ND	0.0088	EPA 8270D/SIM	8-27-15	8-27-15	
2-Methylnaphthalene	ND	0.0088	EPA 8270D/SIM	8-27-15	8-27-15	
1-Methylnaphthalene	ND	0.0088	EPA 8270D/SIM	8-27-15	8-27-15	
Acenaphthylene	ND	0.0088	EPA 8270D/SIM	8-27-15	8-27-15	
Acenaphthene	ND	0.0088	EPA 8270D/SIM	8-27-15	8-27-15	
Fluorene	ND	0.0088	EPA 8270D/SIM	8-27-15	8-27-15	
Phenanthrene	ND	0.0088	EPA 8270D/SIM	8-27-15	8-27-15	
Anthracene	ND	0.0088	EPA 8270D/SIM	8-27-15	8-27-15	
Fluoranthene	ND	0.0088	EPA 8270D/SIM	8-27-15	8-27-15	
Pyrene	ND	0.0088	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[a]anthracene	ND	0.0088	EPA 8270D/SIM	8-27-15	8-27-15	
Chrysene	ND	0.0088	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[b]fluoranthene	ND	0.0088	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo(j,k)fluoranthene	ND	0.0088	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[a]pyrene	ND	0.0088	EPA 8270D/SIM	8-27-15	8-27-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0088	EPA 8270D/SIM	8-27-15	8-27-15	
Dibenz[a,h]anthracene	ND	0.0088	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[g,h,i]perylene	ND	0.0088	EPA 8270D/SIM	8-27-15	8-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>58</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>57</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>60</i>	<i>31 - 116</i>				

Date of Report: September 1, 2015
 Samples Submitted: August 27, 2015
 Laboratory Reference: 1508-268
 Project: 21138-001-03

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2 EX-W3-30.0					
Laboratory ID:	08-268-02					
Naphthalene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
2-Methylnaphthalene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
1-Methylnaphthalene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Acenaphthylene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Acenaphthene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Fluorene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Phenanthrene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Anthracene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Fluoranthene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Pyrene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[a]anthracene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Chrysene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[b]fluoranthene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo(j,k)fluoranthene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[a]pyrene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Dibenz[a,h]anthracene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[g,h,i]perylene	ND	0.0086	EPA 8270D/SIM	8-27-15	8-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>65</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>56</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>59</i>	<i>31 - 116</i>				

Date of Report: September 1, 2015
 Samples Submitted: August 27, 2015
 Laboratory Reference: 1508-268
 Project: 21138-001-03

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0827S1					
Benzene	ND	0.020	EPA 8021B	8-27-15	8-27-15	
Toluene	ND	0.050	EPA 8021B	8-27-15	8-27-15	
Ethyl Benzene	ND	0.050	EPA 8021B	8-27-15	8-27-15	
m,p-Xylene	ND	0.050	EPA 8021B	8-27-15	8-27-15	
o-Xylene	ND	0.050	EPA 8021B	8-27-15	8-27-15	
Gasoline	ND	5.0	NWTPH-Gx	8-27-15	8-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	84	68-123				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-267-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	30	
Toluene	ND	ND	NA	NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA	NA	NA	30	
o-Xylene	ND	ND	NA	NA	NA	NA	30	
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				89	94	68-123		

SPIKE BLANKS

Laboratory ID:	SB	SBD	SB	SBD	SB	SBD			
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.887	0.952	1.00	1.00	89	95	75-117	7	13
Toluene	0.891	0.943	1.00	1.00	89	94	78-118	6	12
Ethyl Benzene	0.883	0.925	1.00	1.00	88	93	78-118	5	12
m,p-Xylene	0.903	0.980	1.00	1.00	90	98	78-121	8	13
o-Xylene	0.891	0.916	1.00	1.00	89	92	77-119	3	13
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					82	84	68-123		

Date of Report: September 1, 2015
 Samples Submitted: August 27, 2015
 Laboratory Reference: 1508-268
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0827S3					
Diesel Range Organics	ND	25	NWTPH-Dx	8-27-15	8-31-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-27-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>108</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-246-02							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				103	93	50-150		

Date of Report: September 1, 2015
 Samples Submitted: August 27, 2015
 Laboratory Reference: 1508-268
 Project: 21138-001-03

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0827S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-27-15	8-27-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>82</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>87</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>92</i>	<i>31 - 116</i>				

Date of Report: September 1, 2015
 Samples Submitted: August 27, 2015
 Laboratory Reference: 1508-268
 Project: 21138-001-03

**PAHs EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
MATRIX SPIKES										
Laboratory ID:	08-263-03									
	MS	MSD	MS	MSD		MS	MSD			
Naphthalene	0.0583	0.0615	0.0833	0.0833	ND	70	74	44 - 107	5	29
Acenaphthylene	0.0581	0.0652	0.0833	0.0833	ND	70	78	44 - 121	12	27
Acenaphthene	0.0579	0.0636	0.0833	0.0833	ND	70	76	47 - 109	9	26
Fluorene	0.0620	0.0653	0.0833	0.0833	ND	74	78	49 - 115	5	28
Phenanthrene	0.0598	0.0638	0.0833	0.0833	ND	72	77	45 - 114	6	26
Anthracene	0.100	0.110	0.0833	0.0833	ND	120	132	43 - 140	10	27
Fluoranthene	0.0584	0.0641	0.0833	0.0833	ND	70	77	44 - 126	9	27
Pyrene	0.0582	0.0636	0.0833	0.0833	ND	70	76	43 - 125	9	27
Benzo[a]anthracene	0.0680	0.0727	0.0833	0.0833	ND	82	87	42 - 134	7	27
Chrysene	0.0597	0.0654	0.0833	0.0833	ND	72	79	45 - 114	9	27
Benzo[b]fluoranthene	0.0602	0.0651	0.0833	0.0833	ND	72	78	38 - 131	8	33
Benzo(j,k)fluoranthene	0.0575	0.0636	0.0833	0.0833	ND	69	76	44 - 114	10	34
Benzo[a]pyrene	0.0580	0.0638	0.0833	0.0833	ND	70	77	40 - 136	10	29
Indeno(1,2,3-c,d)pyrene	0.0580	0.0623	0.0833	0.0833	ND	70	75	45 - 126	7	30
Dibenz[a,h]anthracene	0.0597	0.0646	0.0833	0.0833	ND	72	78	46 - 121	8	28
Benzo[g,h,i]perylene	0.0579	0.0626	0.0833	0.0833	ND	70	75	43 - 120	8	31
<i>Surrogate:</i>										
2-Fluorobiphenyl						67	84	32 - 114		
Pyrene-d10						71	78	33 - 121		
Terphenyl-d14						75	84	31 - 116		

Date of Report: September 1, 2015
Samples Submitted: August 27, 2015
Laboratory Reference: 1508-268
Project: 21138-001-03

% MOISTURE

Date Analyzed: 8-27-15

Client ID	Lab ID	% Moisture
UST2 EX-N-33.0	08-268-01	24
UST2 EX-W3-30.0	08-268-02	23



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



OnSite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)
(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number: **08-268**

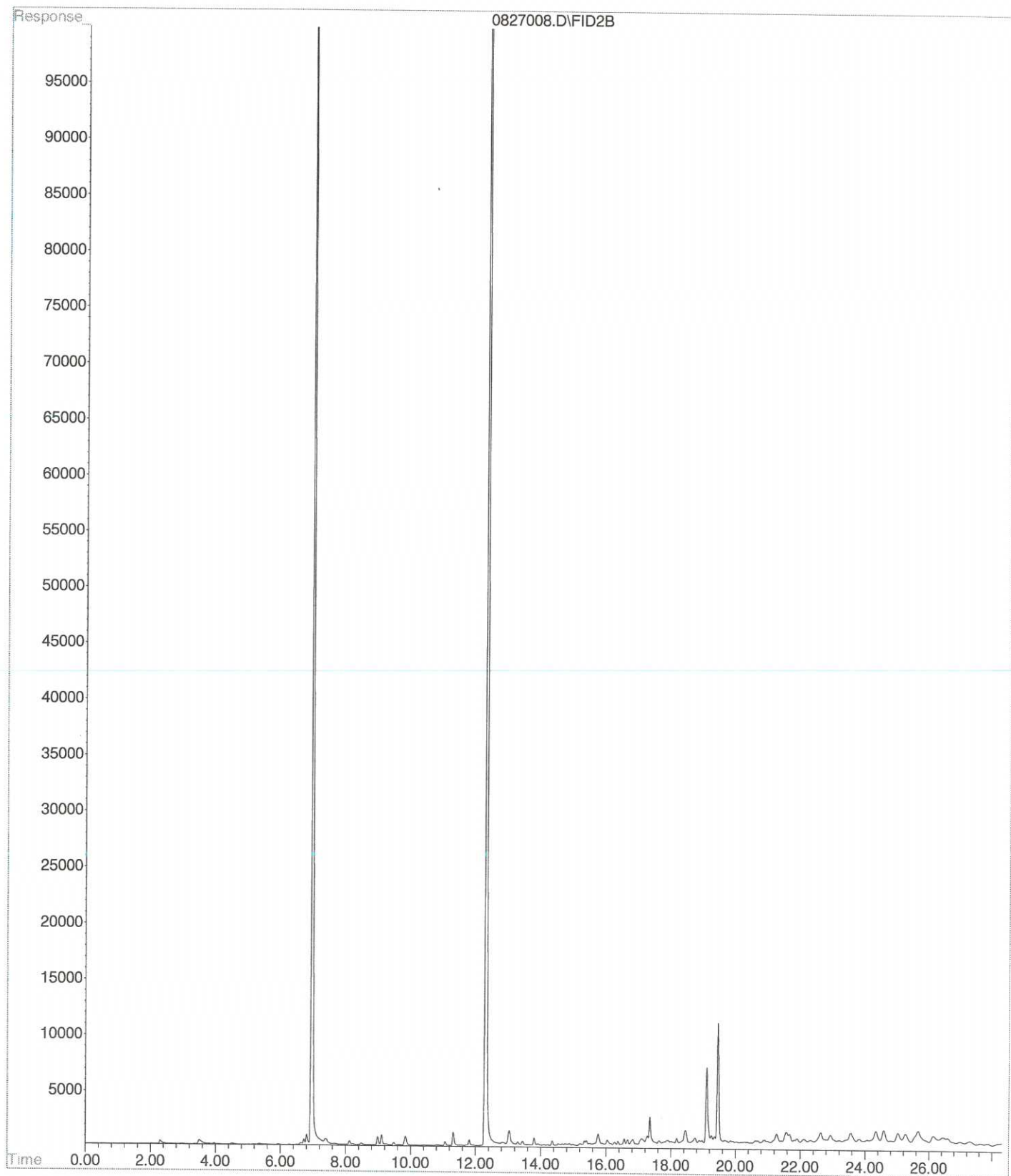
Company: **GEOTECHNICALS**
 Project Number: **2138-001-03**
 Project Name: **9th & LINDERA PROJECT**
 Project Manager: **FASIH KHAN**
 Sampled by: **FASIH KHAN**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	VST2EX-N-33-0	8/26/15	1000	S
2	VST2EX-W3-33-0 30.0 DB	8/26/15	1645	S

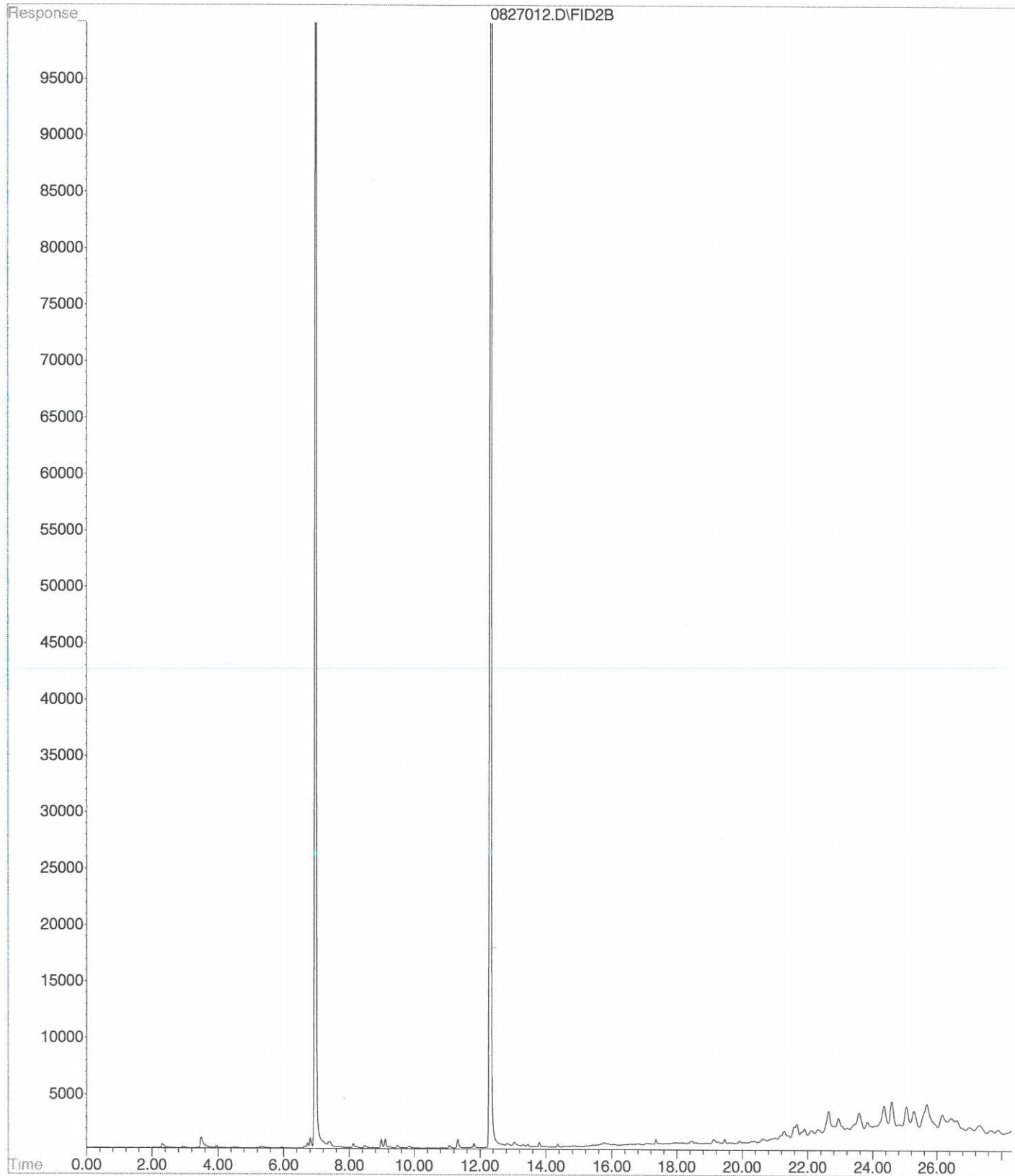
Number of Containers	
NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx /BTEX	<input checked="" type="checkbox"/>
NWTPH-Dx	<input checked="" type="checkbox"/>
Volatiles 8260C	
Halogenated Volatiles 8260C	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	<input checked="" type="checkbox"/>
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
% Moisture	<input checked="" type="checkbox"/>

Signature	Company	Date	Time	Comments/Special Instructions
	GEI	8/27/15	0915	
	FKH	8/27/15	915	
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date				

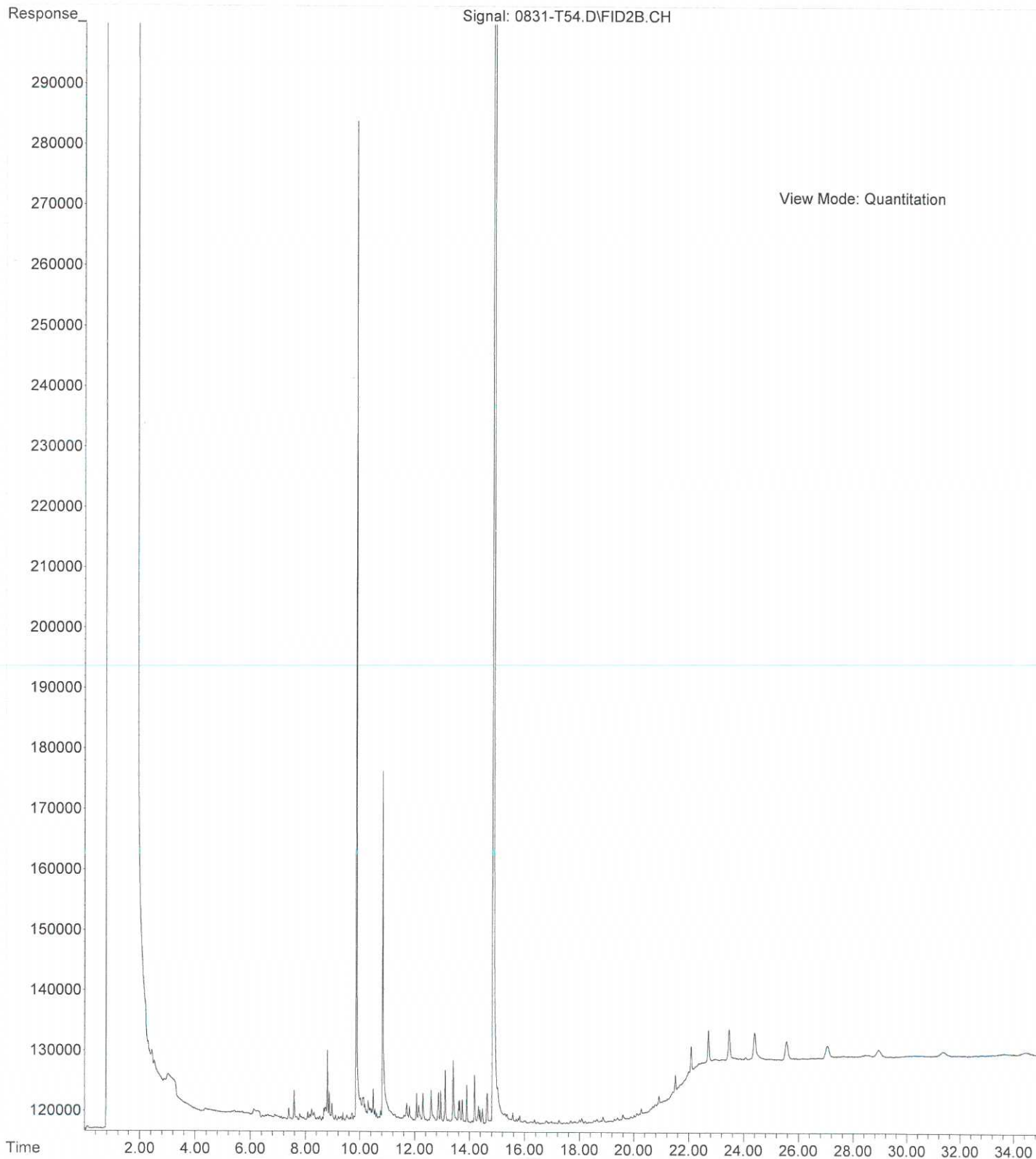
File : X:\BTEX\DARYL\DATA\D150827\0827008.D
Operator :
Acquired : 27 Aug 2015 14:59 using AcqMethod 150709B.M
Instrument : Daryl
Sample Name: 08-268-01s
Misc Info : V2-37-21
Vial Number: 8



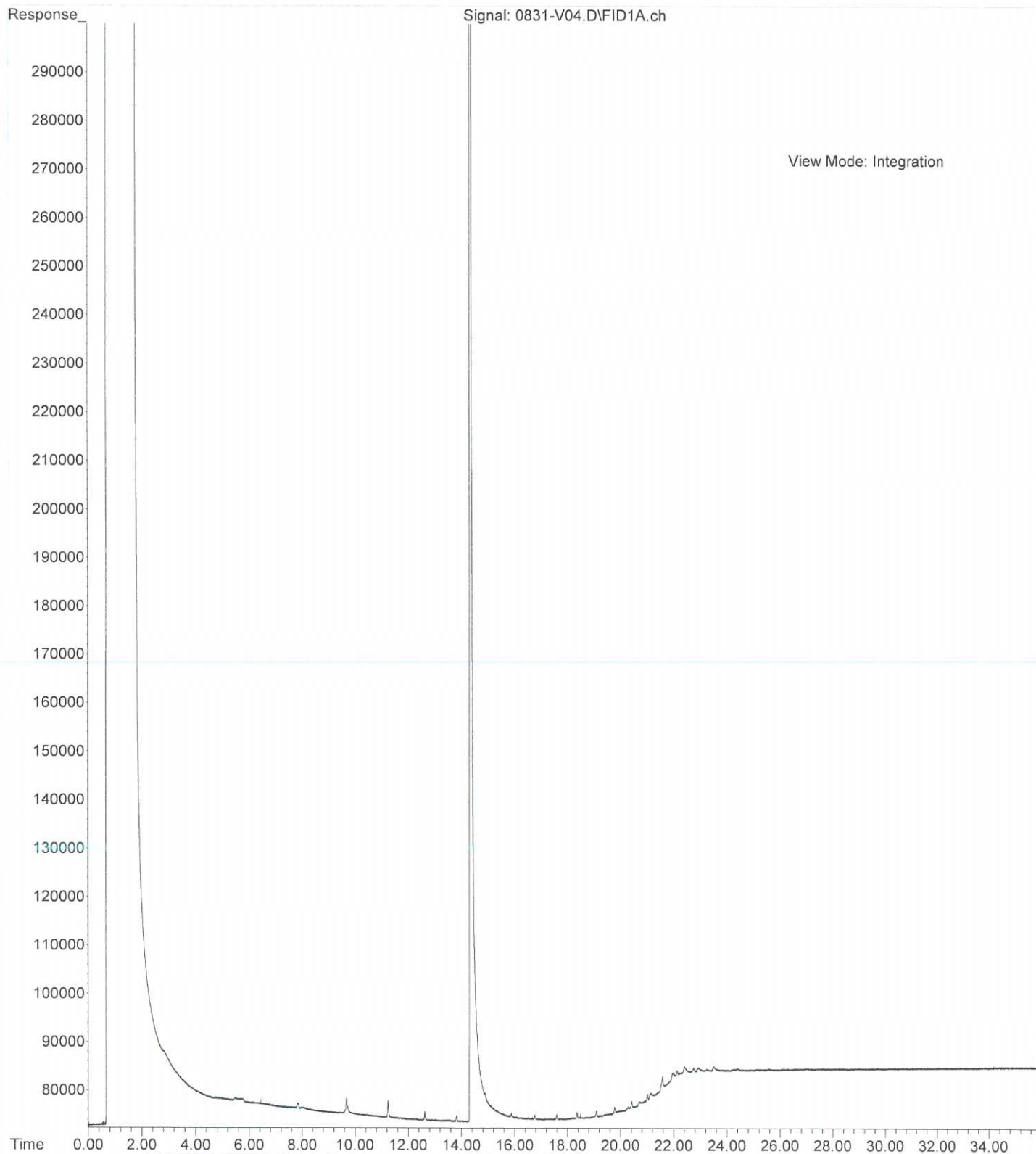
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Operator :
Acquired : 27 Aug 2015 17:33 using AcqMethod 150709B.M
Instrument : Daryl
Sample Name: 08-268-02s
Misc Info : V2-37-21
Vial Number: 12



File :X:\DIESELS\TERI\DATA\T150831.SEC\0831-T54.D
Operator : ZT
Acquired : 31 Aug 2015 11:33 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-268-01
Misc Info :
Vial Number: 54



File :X:\DIESELS\VIGO\DATA\V150831\0831-V04.D
Operator :
Acquired : 31 Aug 2015 11:56 using AcqMethod V150507F.M
Instrument : Vigo
Sample Name: 08-268-02
Misc Info :
Vial Number: 4





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 21, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1508-158

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on August 17, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 21, 2015
Samples Submitted: August 17, 2015
Laboratory Reference: 1508-158
Project: 21138-001-03

Case Narrative

Samples were collected on August 14, 2015 and received by the laboratory on August 17, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 21, 2015
Samples Submitted: August 17, 2015
Laboratory Reference: 1508-158
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UST2-B-24.0	08-158-01	Soil	8-14-15	8-17-15	
UST2-S-22.0	08-158-02	Soil	8-14-15	8-17-15	
UST2-W-22.0	08-158-03	Soil	8-14-15	8-17-15	

Date of Report: August 21, 2015
 Samples Submitted: August 17, 2015
 Laboratory Reference: 1508-158
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2-B-24.0					
Laboratory ID:	08-158-01					
Diesel Range Organics	2900	620	NWTPH-Dx	8-17-15	8-19-15	M,N
Lube Oil	40000	1200	NWTPH-Dx	8-17-15	8-19-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	---	50-150				S
Client ID:	UST2-S-22.0					
Laboratory ID:	08-158-02					
Diesel Range Organics	2500	620	NWTPH-Dx	8-17-15	8-19-15	M,N
Lube Oil	30000	1200	NWTPH-Dx	8-17-15	8-19-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	---	50-150				S
Client ID:	UST2-W-22.0					
Laboratory ID:	08-158-03					
Diesel Range Organics	4300	340	NWTPH-Dx	8-17-15	8-18-15	M,N
Lube Oil	29000	690	NWTPH-Dx	8-17-15	8-18-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	---	50-150				S

Date of Report: August 21, 2015
 Samples Submitted: August 17, 2015
 Laboratory Reference: 1508-158
 Project: 21138-001-03

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2-B-24.0					
Laboratory ID:	08-158-01					
Naphthalene	6.7	0.83	EPA 8270D/SIM	8-18-15	8-20-15	
2-Methylnaphthalene	20	0.83	EPA 8270D/SIM	8-18-15	8-20-15	
1-Methylnaphthalene	12	0.83	EPA 8270D/SIM	8-18-15	8-20-15	
Acenaphthylene	0.32	0.17	EPA 8270D/SIM	8-18-15	8-20-15	
Acenaphthene	0.71	0.17	EPA 8270D/SIM	8-18-15	8-20-15	
Fluorene	1.2	0.17	EPA 8270D/SIM	8-18-15	8-20-15	
Phenanthrene	2.7	0.17	EPA 8270D/SIM	8-18-15	8-20-15	
Anthracene	0.91	0.17	EPA 8270D/SIM	8-18-15	8-20-15	
Fluoranthene	0.79	0.17	EPA 8270D/SIM	8-18-15	8-20-15	
Pyrene	1.8	0.17	EPA 8270D/SIM	8-18-15	8-20-15	
Benzo[a]anthracene	0.51	0.17	EPA 8270D/SIM	8-18-15	8-20-15	
Chrysene	0.87	0.17	EPA 8270D/SIM	8-18-15	8-20-15	
Benzo[b]fluoranthene	0.40	0.17	EPA 8270D/SIM	8-18-15	8-20-15	
Benzo(j,k)fluoranthene	0.072	0.033	EPA 8270D/SIM	8-18-15	8-19-15	
Benzo[a]pyrene	0.40	0.17	EPA 8270D/SIM	8-18-15	8-20-15	
Indeno(1,2,3-c,d)pyrene	0.24	0.17	EPA 8270D/SIM	8-18-15	8-20-15	
Dibenz[a,h]anthracene	0.036	0.033	EPA 8270D/SIM	8-18-15	8-19-15	
Benzo[g,h,i]perylene	0.72	0.17	EPA 8270D/SIM	8-18-15	8-20-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>42</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>69</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>56</i>	<i>31 - 116</i>				

Date of Report: August 21, 2015
 Samples Submitted: August 17, 2015
 Laboratory Reference: 1508-158
 Project: 21138-001-03

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2-S-22.0					
Laboratory ID:	08-158-02					
Naphthalene	6.7	0.82	EPA 8270D/SIM	8-18-15	8-20-15	
2-Methylnaphthalene	12	0.82	EPA 8270D/SIM	8-18-15	8-20-15	
1-Methylnaphthalene	6.8	0.82	EPA 8270D/SIM	8-18-15	8-20-15	
Acenaphthylene	0.10	0.033	EPA 8270D/SIM	8-18-15	8-19-15	
Acenaphthene	0.16	0.16	EPA 8270D/SIM	8-18-15	8-20-15	
Fluorene	0.44	0.16	EPA 8270D/SIM	8-18-15	8-20-15	
Phenanthrene	1.4	0.16	EPA 8270D/SIM	8-18-15	8-20-15	
Anthracene	0.49	0.16	EPA 8270D/SIM	8-18-15	8-20-15	
Fluoranthene	0.68	0.16	EPA 8270D/SIM	8-18-15	8-20-15	
Pyrene	1.3	0.16	EPA 8270D/SIM	8-18-15	8-20-15	
Benzo[a]anthracene	0.55	0.16	EPA 8270D/SIM	8-18-15	8-20-15	
Chrysene	0.68	0.16	EPA 8270D/SIM	8-18-15	8-20-15	
Benzo[b]fluoranthene	0.34	0.16	EPA 8270D/SIM	8-18-15	8-20-15	
Benzo(j,k)fluoranthene	0.072	0.033	EPA 8270D/SIM	8-18-15	8-19-15	
Benzo[a]pyrene	0.36	0.16	EPA 8270D/SIM	8-18-15	8-20-15	
Indeno(1,2,3-c,d)pyrene	0.25	0.16	EPA 8270D/SIM	8-18-15	8-20-15	
Dibenz[a,h]anthracene	ND	0.033	EPA 8270D/SIM	8-18-15	8-19-15	
Benzo[g,h,i]perylene	0.64	0.16	EPA 8270D/SIM	8-18-15	8-20-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>56</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>79</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>77</i>	<i>31 - 116</i>				

Date of Report: August 21, 2015
 Samples Submitted: August 17, 2015
 Laboratory Reference: 1508-158
 Project: 21138-001-03

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2-W-22.0					
Laboratory ID:	08-158-03					
Naphthalene	5.5	0.46	EPA 8270D/SIM	8-18-15	8-20-15	
2-Methylnaphthalene	8.9	0.46	EPA 8270D/SIM	8-18-15	8-20-15	
1-Methylnaphthalene	5.2	0.46	EPA 8270D/SIM	8-18-15	8-20-15	
Acenaphthylene	0.12	0.092	EPA 8270D/SIM	8-18-15	8-20-15	
Acenaphthene	0.14	0.092	EPA 8270D/SIM	8-18-15	8-20-15	
Fluorene	0.41	0.092	EPA 8270D/SIM	8-18-15	8-20-15	
Phenanthrene	1.2	0.092	EPA 8270D/SIM	8-18-15	8-20-15	
Anthracene	0.48	0.092	EPA 8270D/SIM	8-18-15	8-20-15	
Fluoranthene	0.86	0.092	EPA 8270D/SIM	8-18-15	8-20-15	
Pyrene	1.4	0.092	EPA 8270D/SIM	8-18-15	8-20-15	
Benzo[a]anthracene	0.59	0.092	EPA 8270D/SIM	8-18-15	8-20-15	
Chrysene	0.74	0.092	EPA 8270D/SIM	8-18-15	8-20-15	
Benzo[b]fluoranthene	0.67	0.092	EPA 8270D/SIM	8-18-15	8-20-15	
Benzo(j,k)fluoranthene	0.20	0.092	EPA 8270D/SIM	8-18-15	8-20-15	
Benzo[a]pyrene	0.44	0.092	EPA 8270D/SIM	8-18-15	8-20-15	
Indeno(1,2,3-c,d)pyrene	0.37	0.092	EPA 8270D/SIM	8-18-15	8-20-15	
Dibenz[a,h]anthracene	0.041	0.037	EPA 8270D/SIM	8-18-15	8-19-15	
Benzo[g,h,i]perylene	0.83	0.092	EPA 8270D/SIM	8-18-15	8-20-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>51</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>63</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>60</i>	<i>31 - 116</i>				

Date of Report: August 21, 2015
 Samples Submitted: August 17, 2015
 Laboratory Reference: 1508-158
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0817S2					
Diesel Range Organics	ND	25	NWTPH-Dx	8-17-15	8-18-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-17-15	8-18-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	105	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-145-07							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	U1,
Lube Oil	5440	4100	NA	NA	NA	28	NA	
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				---	---	50-150		S,S

Date of Report: August 21, 2015
 Samples Submitted: August 17, 2015
 Laboratory Reference: 1508-158
 Project: 21138-001-03

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0818S1					
Naphthalene	ND	0.033	EPA 8270D/SIM	8-18-15	8-18-15	
2-Methylnaphthalene	ND	0.033	EPA 8270D/SIM	8-18-15	8-18-15	
1-Methylnaphthalene	ND	0.033	EPA 8270D/SIM	8-18-15	8-18-15	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-18-15	8-18-15	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-18-15	8-18-15	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-18-15	8-18-15	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-18-15	8-18-15	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-18-15	8-18-15	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-18-15	8-18-15	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-18-15	8-18-15	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-18-15	8-18-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-18-15	8-18-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-18-15	8-18-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-18-15	8-18-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-18-15	8-18-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-18-15	8-18-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-18-15	8-18-15	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-18-15	8-18-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>70</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>72</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>90</i>	<i>31 - 116</i>				

Date of Report: August 21, 2015
 Samples Submitted: August 17, 2015
 Laboratory Reference: 1508-158
 Project: 21138-001-03

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0818S1									
Acenaphthylene	0.0754	0.0732	0.0833	0.0833	91	88	61 - 125	3	16	
Acenaphthene	0.0752	0.0719	0.0833	0.0833	90	86	66 - 113	4	16	
Fluorene	0.0787	0.0725	0.0833	0.0833	94	87	60 - 117	8	16	
Phenanthrene	0.0746	0.0741	0.0833	0.0833	90	89	63 - 116	1	12	
Anthracene	0.114	0.113	0.0833	0.0833	137	136	66 - 146	1	19	
Fluoranthene	0.0921	0.0828	0.0833	0.0833	111	99	60 - 125	11	13	
Pyrene	0.0802	0.0784	0.0833	0.0833	96	94	66 - 126	2	15	
Benzo[a]anthracene	0.0726	0.0774	0.0833	0.0833	87	93	60 - 128	6	15	
Chrysene	0.0709	0.0735	0.0833	0.0833	85	88	60 - 117	4	13	
Benzo[b]fluoranthene	0.0766	0.0748	0.0833	0.0833	92	90	60 - 131	2	16	
Benzo(j,k)fluoranthene	0.0786	0.0765	0.0833	0.0833	94	92	57 - 126	3	20	
Benzo[a]pyrene	0.0796	0.0795	0.0833	0.0833	96	95	62 - 136	0	16	
Indeno(1,2,3-c,d)pyrene	0.0824	0.0878	0.0833	0.0833	99	105	60 - 127	6	19	
Dibenz[a,h]anthracene	0.0753	0.0765	0.0833	0.0833	90	92	62 - 133	2	22	
Benzo[g,h,i]perylene	0.0769	0.0828	0.0833	0.0833	92	99	63 - 129	7	22	
<i>Surrogate:</i>										
<i>2-Fluorobiphenyl</i>					<i>97</i>	<i>93</i>	<i>32 - 114</i>			
<i>Pyrene-d10</i>					<i>97</i>	<i>94</i>	<i>33 - 121</i>			
<i>Terphenyl-d14</i>					<i>97</i>	<i>111</i>	<i>31 - 116</i>			

Date of Report: August 21, 2015
Samples Submitted: August 17, 2015
Laboratory Reference: 1508-158
Project: 21138-001-03

% MOISTURE

Date Analyzed: 8-17-15

Client ID	Lab ID	% Moisture
UST2-B-24.0	08-158-01	19
UST2-S-22.0	08-158-02	19
UST2-W-22.0	08-158-03	27



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number:

08-158

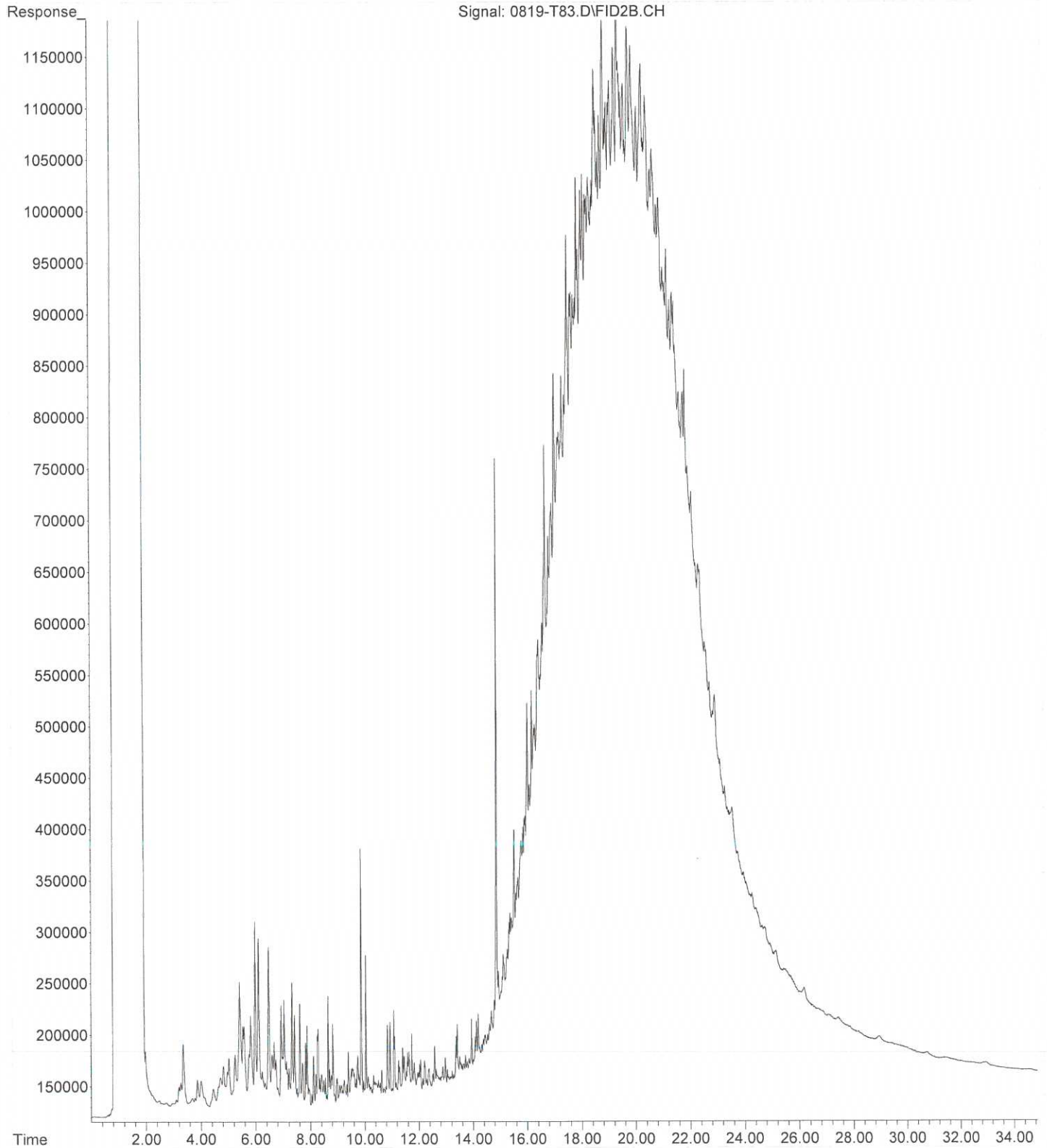
Company: **GED ENGINEERS**
 Project Number: **21138-001-03**
 Project Name: **9th & Levee Protection**
 Project Manager: **FASIH KHAN**
 Sampled by: **FASIH KHAN**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	UST2-B-24.0	8/14/15	1245	S
2	UST2-S-22.0		1300	
3	UST2-W-22.0		1310	

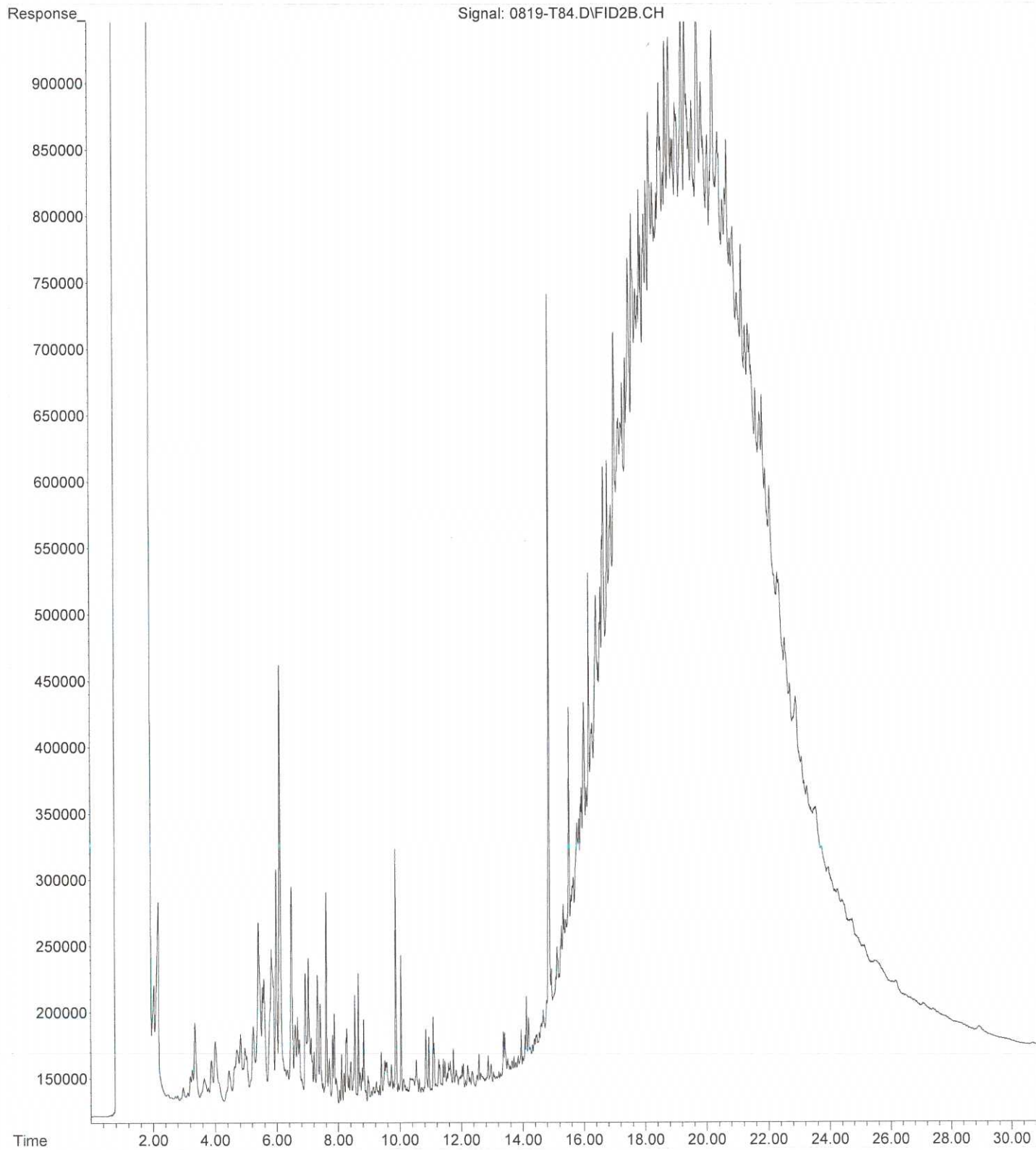
Number of Containers	Laboratory Number: 08-158																	
	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
1				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>										X
1				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>										X
1				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>										X

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	GEN	8/17/15	0825	
<i>[Signature]</i>	OSE	8.17.15	8:25A	
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Reviewed/Date	Reviewed/Date	Chromatograms with final report <input type="checkbox"/>		

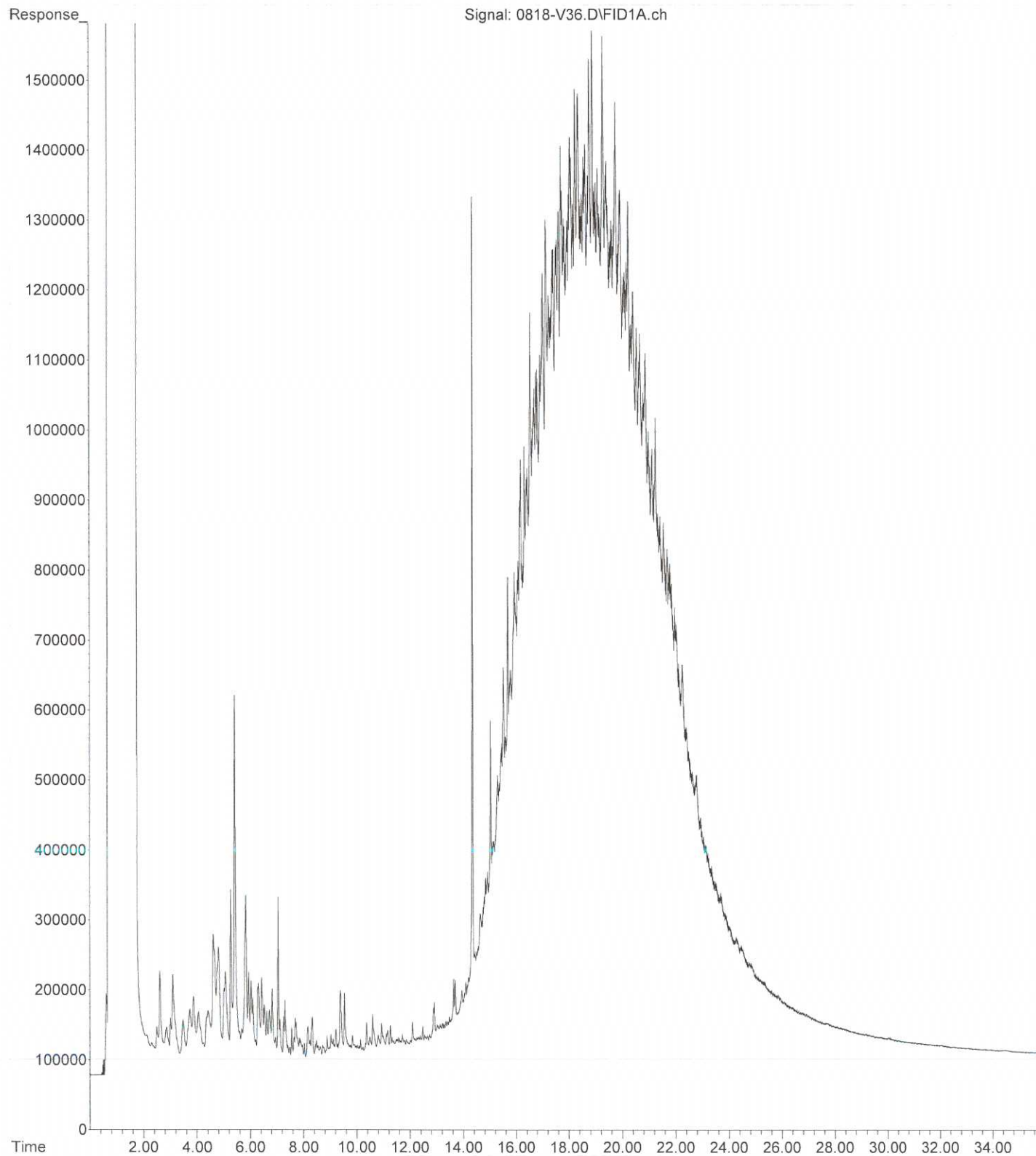
File :X:\DIESELS\TERI\DATA\T150819.SEC\0819-T83.D
Operator : ZT
Acquired : 20 Aug 2015 10:45 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-158-01 20X
Misc Info :
Vial Number: 83



File :X:\DIESELS\TERI\DATA\T150819.SEC\0819-T84.D
Operator : ZT
Acquired : 20 Aug 2015 11:28 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-158-02 20X
Misc Info :
Vial Number: 84



File :X:\DIESELS\VIGO\DATA\V150818\0818-V36.D
Operator :
Acquired : 19 Aug 2015 14:39 using AcqMethod V150507F.M
Instrument : Vigo
Sample Name: 08-158-03 10X
Misc Info :
Vial Number: 36





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August 12, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1508-101

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on August 12, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 12, 2015
Samples Submitted: August 12, 2015
Laboratory Reference: 1508-101
Project: 21138-001-03

Case Narrative

Samples were collected on August 11, 2015 and received by the laboratory on August 12, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 12, 2015
Samples Submitted: August 12, 2015
Laboratory Reference: 1508-101
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SW-UST-PRODUCT	08-101-01	Product	8-11-15	8-12-15	

Date of Report: August 12, 2015
 Samples Submitted: August 12, 2015
 Laboratory Reference: 1508-101
 Project: 21138-001-03

NWTPH-HCID

Matrix: Product
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SW-UST-PRODUCT					
Laboratory ID:	08-101-01					
Gasoline Range Organics	ND	8600	NWTPH-HCID	8-12-15	8-12-15	U1
Diesel Fuel #2	Detected	2400	NWTPH-HCID	8-12-15	8-12-15	
Lube Oil	Detected	4800	NWTPH-HCID	8-12-15	8-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>106</i>	<i>50-150</i>				

Date of Report: August 12, 2015
 Samples Submitted: August 12, 2015
 Laboratory Reference: 1508-101
 Project: 21138-001-03

**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Product
 Units: mg/Kg (ppm)

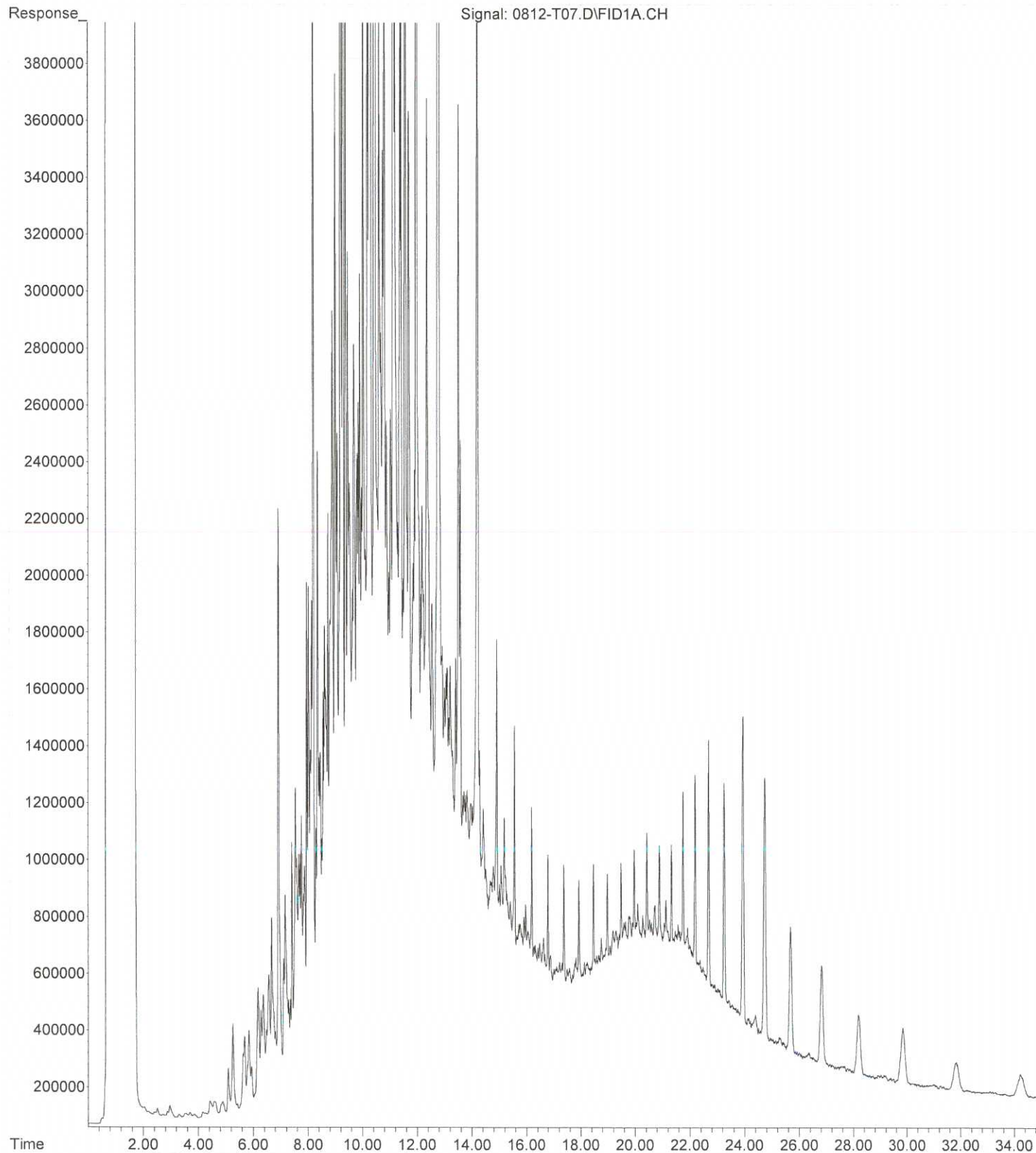
Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0812P1					
Gasoline Range Organics	ND	1000	NWTPH-HCID	8-12-15	8-12-15	
Diesel Range Organics	ND	2500	NWTPH-HCID	8-12-15	8-12-15	
Lube Oil Range Organics	ND	5000	NWTPH-HCID	8-12-15	8-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>85</i>	<i>50-150</i>				



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

File :X:\DIESELS\TERI\DATA\T150812\0812-T07.D
Operator : ZT
Acquired : 12 Aug 2015 15:35 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-101-01 HC P
Misc Info :
Vial Number: 7





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 11, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1508-031

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on August 6, 2015.

Please note that this is a *revised* report, and replaces the original due to a revision of the sample identification.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 11, 2015
Samples Submitted: August 6, 2015
Laboratory Reference: 1508-031
Project: 21138-001-03

Case Narrative

Samples were collected on August 4, 2015 and received by the laboratory on August 6, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: August 11, 2015
Samples Submitted: August 6, 2015
Laboratory Reference: 1508-031
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UST2EX-S1-20.0	08-031-01	Soil	8-4-15	8-6-15	

Date of Report: August 11, 2015
 Samples Submitted: August 6, 2015
 Laboratory Reference: 1508-031
 Project: 21138-001-03

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-S1-20.0					
Laboratory ID:	08-031-01					
Benzene	ND	0.020	EPA 8021B	8-7-15	8-7-15	
Toluene	ND	0.055	EPA 8021B	8-7-15	8-7-15	
Ethyl Benzene	ND	0.055	EPA 8021B	8-7-15	8-7-15	
m,p-Xylene	ND	0.055	EPA 8021B	8-7-15	8-7-15	
o-Xylene	ND	0.055	EPA 8021B	8-7-15	8-7-15	
Gasoline	ND	5.5	NWTPH-Gx	8-7-15	8-7-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	68-123				

Date of Report: August 11, 2015
 Samples Submitted: August 6, 2015
 Laboratory Reference: 1508-031
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-S1-20.0					
Laboratory ID:	08-031-01					
Diesel Range Organics	ND	25	NWTPH-Dx	8-6-15	8-6-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-6-15	8-6-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	93	50-150				

Date of Report: August 11, 2015
 Samples Submitted: August 6, 2015
 Laboratory Reference: 1508-031
 Project: 21138-001-03

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0807S1					
Benzene	ND	0.020	EPA 8021B	8-7-15	8-7-15	
Toluene	ND	0.050	EPA 8021B	8-7-15	8-7-15	
Ethyl Benzene	ND	0.050	EPA 8021B	8-7-15	8-7-15	
m,p-Xylene	ND	0.050	EPA 8021B	8-7-15	8-7-15	
o-Xylene	ND	0.050	EPA 8021B	8-7-15	8-7-15	
Gasoline	ND	5.0	NWTPH-Gx	8-7-15	8-7-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	68-123				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-047-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				89	89	68-123		

SPIKE BLANKS

Laboratory ID:	SB0807S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	1.03	1.03	1.00	1.00	103	103	75-117	0	13
Toluene	1.02	1.02	1.00	1.00	102	102	78-118	0	12
Ethyl Benzene	1.01	1.01	1.00	1.00	101	101	78-118	0	12
m,p-Xylene	1.02	1.02	1.00	1.00	102	102	78-121	0	13
o-Xylene	1.02	1.01	1.00	1.00	102	101	77-119	1	13
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					96	95	68-123		

Date of Report: August 11, 2015
 Samples Submitted: August 6, 2015
 Laboratory Reference: 1508-031
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0806S1					
Diesel Range Organics	ND	25	NWTPH-Dx	8-6-15	8-6-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-6-15	8-6-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-031-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				93	95	50-150		

Date of Report: August 11, 2015
Samples Submitted: August 6, 2015
Laboratory Reference: 1508-031
Project: 21138-001-03

% MOISTURE

Date Analyzed: 8-6-15

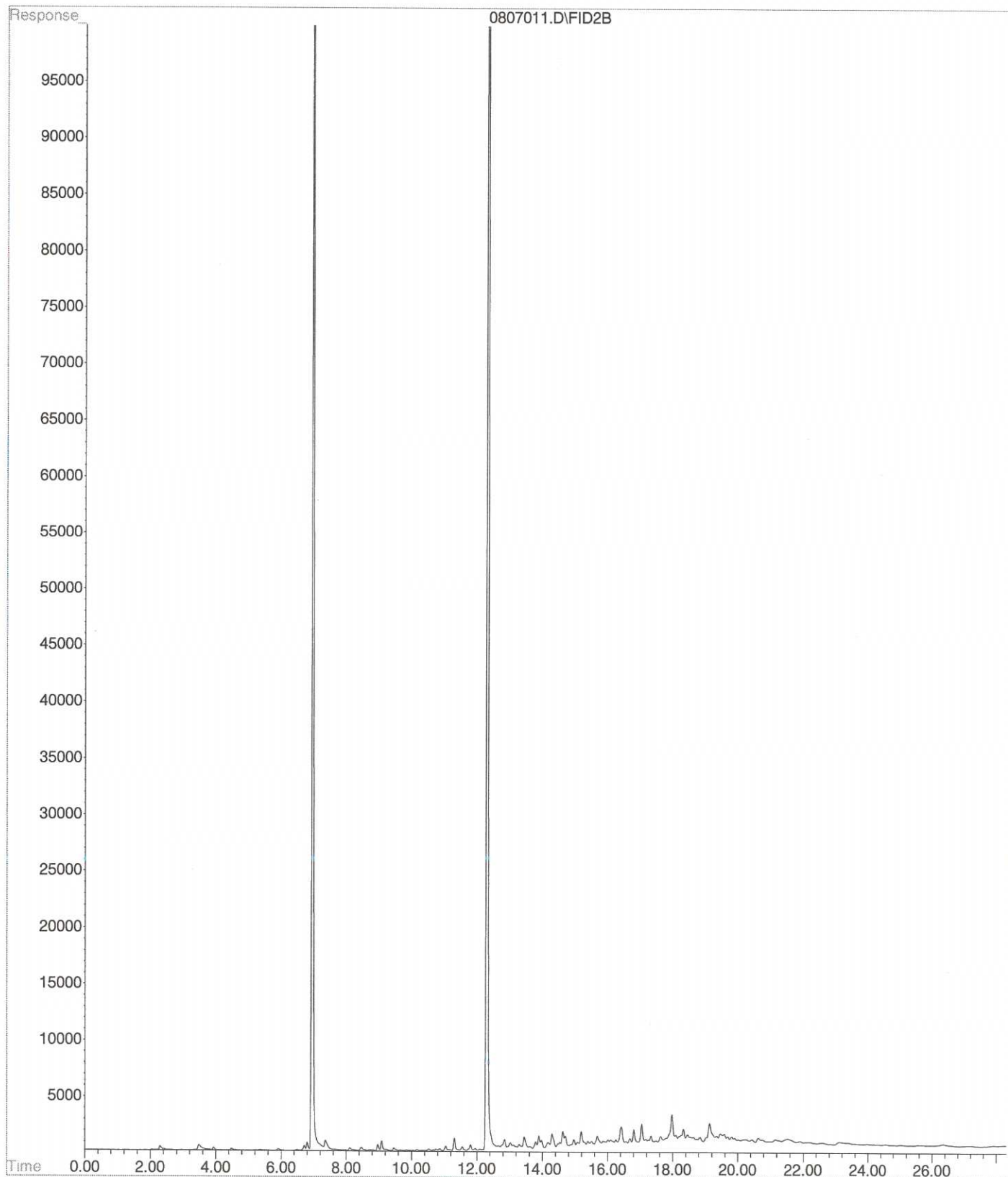
Client ID	Lab ID	% Moisture
UST2EX-S1-20.0	08-031-01	12



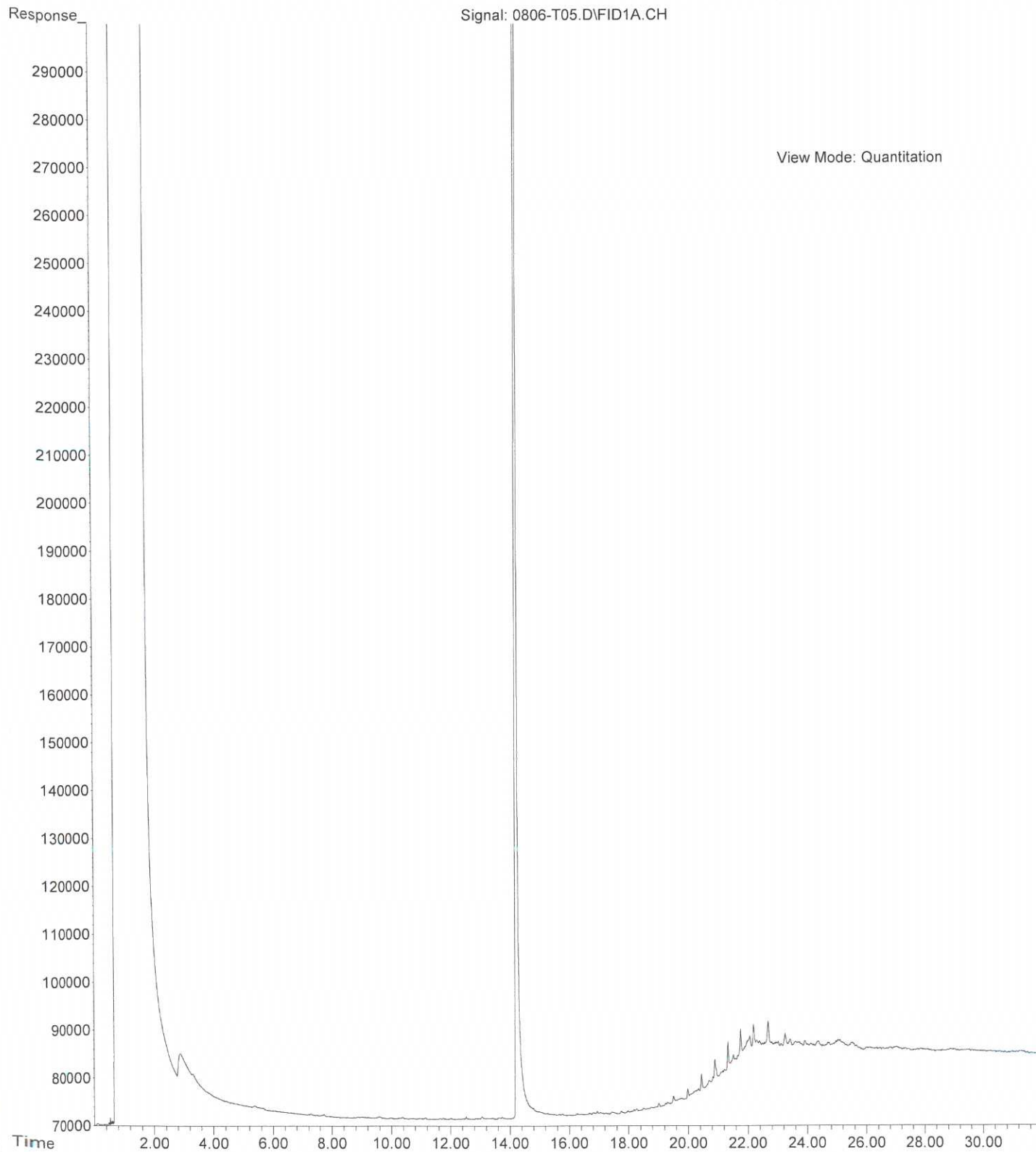
Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

File : X:\BTEX\DARYL\DATA\D150807\0807011.D
Operator :
Acquired : 7 Aug 2015 18:19 using AcqMethod 150709B.M
Instrument : Daryl
Sample Name: 08-031-01s
Misc Info : V2-37-21
Vial Number: 11



File :X:\DIESELS\TERI\DATA\T150806\0806-T05.D
Operator : ZT
Acquired : 06 Aug 2015 14:33 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-031-01
Misc Info :
Vial Number: 5





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September 2, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1508-289R2

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on August 28, 2015.

Please note that this is a *revised* report, and replaces the original due to a revision of the sample identification.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: September 2, 2015
Samples Submitted: August 28, 2015
Laboratory Reference: 1508-289R2
Project: 21138-001-03

Case Narrative

Samples were collected on August 27 and 28, 2015 and received by the laboratory on August 28, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

PAHs EPA 8270D/SIM Analysis

The Spike Blank/Spike Blank Duplicate had one recovery slightly above control limits, due to a small upward bias in the instruments' calibration. No further action was taken.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: September 2, 2015
Samples Submitted: August 28, 2015
Laboratory Reference: 1508-289R2
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UST2EX-W2-30.0	08-289-01	Soil	8-28-15	8-28-15	
UST2EX-S2-24.0	08-289-02	Soil	8-27-15	8-28-15	

Date of Report: September 2, 2015
 Samples Submitted: August 28, 2015
 Laboratory Reference: 1508-289R2
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-W2-30.0					
Laboratory ID:	08-289-01					
Diesel Range Organics	240	34	NWTPH-Dx	8-31-15	8-31-15	
Lube Oil	1800	68	NWTPH-Dx	8-31-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				
Client ID:	UST2EX-S2-24.0					
Laboratory ID:	08-289-02					
Diesel Range Organics	56	34	NWTPH-Dx	8-31-15	8-31-15	
Lube Oil	490	68	NWTPH-Dx	8-31-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	76	50-150				

Date of Report: September 2, 2015
 Samples Submitted: August 28, 2015
 Laboratory Reference: 1508-289R2
 Project: 21138-001-03

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-W2-30.0					
Laboratory ID:	08-289-01					
Naphthalene	0.18	0.0091	EPA 8270D/SIM	8-31-15	8-31-15	
2-Methylnaphthalene	0.89	0.0091	EPA 8270D/SIM	8-31-15	8-31-15	
1-Methylnaphthalene	0.65	0.0091	EPA 8270D/SIM	8-31-15	8-31-15	
Acenaphthylene	0.024	0.0091	EPA 8270D/SIM	8-31-15	8-31-15	
Acenaphthene	0.053	0.0091	EPA 8270D/SIM	8-31-15	8-31-15	
Fluorene	0.088	0.0091	EPA 8270D/SIM	8-31-15	8-31-15	
Phenanthrene	0.17	0.0091	EPA 8270D/SIM	8-31-15	8-31-15	
Anthracene	0.051	0.0091	EPA 8270D/SIM	8-31-15	8-31-15	
Fluoranthene	0.044	0.0091	EPA 8270D/SIM	8-31-15	8-31-15	
Pyrene	0.12	0.0091	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[a]anthracene	0.043	0.0091	EPA 8270D/SIM	8-31-15	8-31-15	
Chrysene	0.047	0.0091	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[b]fluoranthene	0.018	0.0091	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo(j,k)fluoranthene	ND	0.0091	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[a]pyrene	0.015	0.0091	EPA 8270D/SIM	8-31-15	8-31-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0091	EPA 8270D/SIM	8-31-15	8-31-15	
Dibenz[a,h]anthracene	ND	0.0091	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[g,h,i]perylene	0.027	0.0091	EPA 8270D/SIM	8-31-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>65</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>77</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>67</i>	<i>31 - 116</i>				

Date of Report: September 2, 2015
 Samples Submitted: August 28, 2015
 Laboratory Reference: 1508-289R2
 Project: 21138-001-03

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-S2-24.0					
Laboratory ID:	08-289-02					
Naphthalene	0.20	0.0090	EPA 8270D/SIM	8-31-15	8-31-15	
2-Methylnaphthalene	0.32	0.0090	EPA 8270D/SIM	8-31-15	8-31-15	
1-Methylnaphthalene	0.21	0.0090	EPA 8270D/SIM	8-31-15	8-31-15	
Acenaphthylene	ND	0.0090	EPA 8270D/SIM	8-31-15	8-31-15	
Acenaphthene	0.013	0.0090	EPA 8270D/SIM	8-31-15	8-31-15	
Fluorene	0.024	0.0090	EPA 8270D/SIM	8-31-15	8-31-15	
Phenanthrene	0.051	0.0090	EPA 8270D/SIM	8-31-15	8-31-15	
Anthracene	0.018	0.0090	EPA 8270D/SIM	8-31-15	8-31-15	
Fluoranthene	0.016	0.0090	EPA 8270D/SIM	8-31-15	8-31-15	
Pyrene	0.036	0.0090	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[a]anthracene	0.015	0.0090	EPA 8270D/SIM	8-31-15	8-31-15	
Chrysene	0.015	0.0090	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[b]fluoranthene	ND	0.0090	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo(j,k)fluoranthene	ND	0.0090	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[a]pyrene	ND	0.0090	EPA 8270D/SIM	8-31-15	8-31-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0090	EPA 8270D/SIM	8-31-15	8-31-15	
Dibenz[a,h]anthracene	ND	0.0090	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[g,h,i]perylene	0.011	0.0090	EPA 8270D/SIM	8-31-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>48</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>45</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>56</i>	<i>31 - 116</i>				

Date of Report: September 2, 2015
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 Laboratory Reference: 1508-289R2
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**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0831S1					
Diesel Range Organics	ND	25	NWTPH-Dx	8-31-15	8-31-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-31-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	110	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-287-04,09 Comp.							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>			107	112	50-150			

Date of Report: September 2, 2015
 Samples Submitted: August 28, 2015
 Laboratory Reference: 1508-289R2
 Project: 21138-001-03

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0831S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>81</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>83</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>90</i>	<i>31 - 116</i>				

Date of Report: September 2, 2015
 Samples Submitted: August 28, 2015
 Laboratory Reference: 1508-289R2
 Project: 21138-001-03

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0831S1									
Naphthalene	0.0711	0.0719	0.0833	0.0833	85	86	63 - 113	1	19	
Acenaphthylene	0.0748	0.0728	0.0833	0.0833	90	87	61 - 125	3	16	
Acenaphthene	0.0748	0.0732	0.0833	0.0833	90	88	66 - 113	2	16	
Fluorene	0.0753	0.0777	0.0833	0.0833	90	93	60 - 117	3	16	
Phenanthrene	0.0726	0.0724	0.0833	0.0833	87	87	63 - 116	0	12	
Anthracene	0.127	0.126	0.0833	0.0833	152	151	66 - 146	1	19	II
Fluoranthene	0.0717	0.0722	0.0833	0.0833	86	87	60 - 125	1	13	
Pyrene	0.0716	0.0716	0.0833	0.0833	86	86	66 - 126	0	15	
Benzo[a]anthracene	0.0826	0.0824	0.0833	0.0833	99	99	60 - 128	0	15	
Chrysene	0.0740	0.0746	0.0833	0.0833	89	90	60 - 117	1	13	
Benzo[b]fluoranthene	0.0711	0.0720	0.0833	0.0833	85	86	60 - 131	1	16	
Benzo(j,k)fluoranthene	0.0727	0.0735	0.0833	0.0833	87	88	57 - 126	1	20	
Benzo[a]pyrene	0.0699	0.0704	0.0833	0.0833	84	85	62 - 136	1	16	
Indeno(1,2,3-c,d)pyrene	0.0603	0.0632	0.0833	0.0833	72	76	60 - 127	5	19	
Dibenz[a,h]anthracene	0.0592	0.0627	0.0833	0.0833	71	75	62 - 133	6	22	
Benzo[g,h,i]perylene	0.0641	0.0668	0.0833	0.0833	77	80	63 - 129	4	22	
<i>Surrogate:</i>										
2-Fluorobiphenyl					88	87	32 - 114			
Pyrene-d10					82	83	33 - 121			
Terphenyl-d14					89	89	31 - 116			

Date of Report: September 2, 2015
Samples Submitted: August 28, 2015
Laboratory Reference: 1508-289R2
Project: 21138-001-03

% MOISTURE

Date Analyzed: 8-31-15

Client ID	Lab ID	% Moisture
UST2EX-W2-30.0	08-289-01	27
UST2EX-S2-24.0	08-289-02	26



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 1, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1508-288

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on August 28, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: September 1, 2015
Samples Submitted: August 28, 2015
Laboratory Reference: 1508-288
Project: 21138-001-03

Case Narrative

Samples were collected on August 28, 2015 and received by the laboratory on August 28, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

PAHs EPA 8270D/SIM Analysis

The Spike Blank/Spike Blank Duplicate had one recovery slightly above control limits, due to a small upward bias in the instruments' calibration. No further action was taken.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: September 1, 2015
Samples Submitted: August 28, 2015
Laboratory Reference: 1508-288
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UST2EX-S1-33.0	08-288-01	Soil	8-28-15	8-28-15	
UST2EX-S2-33.0	08-288-02	Soil	8-28-15	8-28-15	
UST2EX-W1-33.0	08-288-03	Soil	8-28-15	8-28-15	
UST2EX-W2-33.0	08-288-04	Soil	8-28-15	8-28-15	
UST2EX-B2-36.0	08-288-05	Soil	8-28-15	8-28-15	

Date of Report: September 1, 2015
 Samples Submitted: August 28, 2015
 Laboratory Reference: 1508-288
 Project: 21138-001-03

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-S1-33.0					
Laboratory ID:	08-288-01					
Benzene	ND	0.020	EPA 8021B	8-28-15	8-28-15	
Toluene	ND	0.060	EPA 8021B	8-28-15	8-28-15	
Ethyl Benzene	ND	0.060	EPA 8021B	8-28-15	8-28-15	
m,p-Xylene	ND	0.060	EPA 8021B	8-28-15	8-28-15	
o-Xylene	ND	0.060	EPA 8021B	8-28-15	8-28-15	
Gasoline	ND	6.0	NWTPH-Gx	8-28-15	8-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	68-123				
Client ID:	UST2EX-S2-33.0					
Laboratory ID:	08-288-02					
Benzene	ND	0.020	EPA 8021B	8-28-15	8-28-15	
Toluene	ND	0.069	EPA 8021B	8-28-15	8-28-15	
Ethyl Benzene	ND	0.069	EPA 8021B	8-28-15	8-28-15	
m,p-Xylene	ND	0.069	EPA 8021B	8-28-15	8-28-15	
o-Xylene	ND	0.069	EPA 8021B	8-28-15	8-28-15	
Gasoline	ND	6.9	NWTPH-Gx	8-28-15	8-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	86	68-123				
Client ID:	UST2EX-W1-33.0					
Laboratory ID:	08-288-03					
Benzene	ND	0.020	EPA 8021B	8-28-15	8-28-15	
Toluene	ND	0.079	EPA 8021B	8-28-15	8-28-15	
Ethyl Benzene	ND	0.079	EPA 8021B	8-28-15	8-28-15	
m,p-Xylene	ND	0.079	EPA 8021B	8-28-15	8-28-15	
o-Xylene	ND	0.079	EPA 8021B	8-28-15	8-28-15	
Gasoline	ND	7.9	NWTPH-Gx	8-28-15	8-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	98	68-123				

Date of Report: September 1, 2015
 Samples Submitted: August 28, 2015
 Laboratory Reference: 1508-288
 Project: 21138-001-03

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-W2-33.0					
Laboratory ID:	08-288-04					
Benzene	ND	0.020	EPA 8021B	8-28-15	8-28-15	
Toluene	ND	0.067	EPA 8021B	8-28-15	8-28-15	
Ethyl Benzene	ND	0.067	EPA 8021B	8-28-15	8-28-15	
m,p-Xylene	ND	0.067	EPA 8021B	8-28-15	8-28-15	
o-Xylene	ND	0.067	EPA 8021B	8-28-15	8-28-15	
Gasoline	ND	6.7	NWTPH-Gx	8-28-15	8-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	87	68-123				
Client ID:	UST2EX-B2-36.0					
Laboratory ID:	08-288-05					
Benzene	ND	0.020	EPA 8021B	8-28-15	8-28-15	
Toluene	ND	0.073	EPA 8021B	8-28-15	8-28-15	
Ethyl Benzene	ND	0.073	EPA 8021B	8-28-15	8-28-15	
m,p-Xylene	ND	0.073	EPA 8021B	8-28-15	8-28-15	
o-Xylene	ND	0.073	EPA 8021B	8-28-15	8-28-15	
Gasoline	ND	7.3	NWTPH-Gx	8-28-15	8-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	68-123				

Date of Report: September 1, 2015
 Samples Submitted: August 28, 2015
 Laboratory Reference: 1508-288
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-S1-33.0					
Laboratory ID:	08-288-01					
Diesel Range Organics	ND	27	NWTPH-Dx	8-29-15	8-31-15	
Lube Oil Range Organics	ND	55	NWTPH-Dx	8-29-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				
Client ID:	UST2EX-S2-33.0					
Laboratory ID:	08-288-02					
Diesel Range Organics	ND	32	NWTPH-Dx	8-29-15	8-31-15	
Lube Oil Range Organics	ND	63	NWTPH-Dx	8-29-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	103	50-150				
Client ID:	UST2EX-W1-33.0					
Laboratory ID:	08-288-03					
Diesel Range Organics	ND	33	NWTPH-Dx	8-29-15	8-31-15	
Lube Oil Range Organics	ND	65	NWTPH-Dx	8-29-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				
Client ID:	UST2EX-W2-33.0					
Laboratory ID:	08-288-04					
Diesel Range Organics	ND	31	NWTPH-Dx	8-29-15	8-31-15	
Lube Oil Range Organics	ND	62	NWTPH-Dx	8-29-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	50-150				
Client ID:	UST2EX-B2-36.0					
Laboratory ID:	08-288-05					
Diesel Range Organics	ND	32	NWTPH-Dx	8-29-15	8-31-15	
Lube Oil Range Organics	ND	64	NWTPH-Dx	8-29-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				

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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-S1-33.0					
Laboratory ID:	08-288-01					
Naphthalene	ND	0.0073	EPA 8270D/SIM	8-31-15	8-31-15	
2-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	8-31-15	8-31-15	
1-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	8-31-15	8-31-15	
Acenaphthylene	ND	0.0073	EPA 8270D/SIM	8-31-15	8-31-15	
Acenaphthene	ND	0.0073	EPA 8270D/SIM	8-31-15	8-31-15	
Fluorene	ND	0.0073	EPA 8270D/SIM	8-31-15	8-31-15	
Phenanthrene	ND	0.0073	EPA 8270D/SIM	8-31-15	8-31-15	
Anthracene	ND	0.0073	EPA 8270D/SIM	8-31-15	8-31-15	
Fluoranthene	ND	0.0073	EPA 8270D/SIM	8-31-15	8-31-15	
Pyrene	ND	0.0073	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[a]anthracene	ND	0.0073	EPA 8270D/SIM	8-31-15	8-31-15	
Chrysene	ND	0.0073	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[b]fluoranthene	ND	0.0073	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo(j,k)fluoranthene	ND	0.0073	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[a]pyrene	ND	0.0073	EPA 8270D/SIM	8-31-15	8-31-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0073	EPA 8270D/SIM	8-31-15	8-31-15	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[g,h,i]perylene	ND	0.0073	EPA 8270D/SIM	8-31-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>57</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>56</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>61</i>	<i>31 - 116</i>				

Date of Report: September 1, 2015
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 Laboratory Reference: 1508-288
 Project: 21138-001-03

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-S2-33.0					
Laboratory ID:	08-288-02					
Naphthalene	ND	0.0084	EPA 8270D/SIM	8-31-15	8-31-15	
2-Methylnaphthalene	ND	0.0084	EPA 8270D/SIM	8-31-15	8-31-15	
1-Methylnaphthalene	ND	0.0084	EPA 8270D/SIM	8-31-15	8-31-15	
Acenaphthylene	ND	0.0084	EPA 8270D/SIM	8-31-15	8-31-15	
Acenaphthene	ND	0.0084	EPA 8270D/SIM	8-31-15	8-31-15	
Fluorene	ND	0.0084	EPA 8270D/SIM	8-31-15	8-31-15	
Phenanthrene	ND	0.0084	EPA 8270D/SIM	8-31-15	8-31-15	
Anthracene	ND	0.0084	EPA 8270D/SIM	8-31-15	8-31-15	
Fluoranthene	ND	0.0084	EPA 8270D/SIM	8-31-15	8-31-15	
Pyrene	ND	0.0084	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[a]anthracene	ND	0.0084	EPA 8270D/SIM	8-31-15	8-31-15	
Chrysene	ND	0.0084	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[b]fluoranthene	ND	0.0084	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo(j,k)fluoranthene	ND	0.0084	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[a]pyrene	ND	0.0084	EPA 8270D/SIM	8-31-15	8-31-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0084	EPA 8270D/SIM	8-31-15	8-31-15	
Dibenz[a,h]anthracene	ND	0.0084	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[g,h,i]perylene	ND	0.0084	EPA 8270D/SIM	8-31-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>52</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>49</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>53</i>	<i>31 - 116</i>				

Date of Report: September 1, 2015
 Samples Submitted: August 28, 2015
 Laboratory Reference: 1508-288
 Project: 21138-001-03

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-W1-33.0					
Laboratory ID:	08-288-03					
Naphthalene	0.040	0.0087	EPA 8270D/SIM	8-31-15	8-31-15	
2-Methylnaphthalene	0.021	0.0087	EPA 8270D/SIM	8-31-15	8-31-15	
1-Methylnaphthalene	0.021	0.0087	EPA 8270D/SIM	8-31-15	8-31-15	
Acenaphthylene	ND	0.0087	EPA 8270D/SIM	8-31-15	8-31-15	
Acenaphthene	ND	0.0087	EPA 8270D/SIM	8-31-15	8-31-15	
Fluorene	ND	0.0087	EPA 8270D/SIM	8-31-15	8-31-15	
Phenanthrene	ND	0.0087	EPA 8270D/SIM	8-31-15	8-31-15	
Anthracene	ND	0.0087	EPA 8270D/SIM	8-31-15	8-31-15	
Fluoranthene	ND	0.0087	EPA 8270D/SIM	8-31-15	8-31-15	
Pyrene	ND	0.0087	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[a]anthracene	ND	0.0087	EPA 8270D/SIM	8-31-15	8-31-15	
Chrysene	ND	0.0087	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[b]fluoranthene	ND	0.0087	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo(j,k)fluoranthene	ND	0.0087	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[a]pyrene	ND	0.0087	EPA 8270D/SIM	8-31-15	8-31-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0087	EPA 8270D/SIM	8-31-15	8-31-15	
Dibenz[a,h]anthracene	ND	0.0087	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[g,h,i]perylene	ND	0.0087	EPA 8270D/SIM	8-31-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>64</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>60</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>65</i>	<i>31 - 116</i>				

Date of Report: September 1, 2015
 Samples Submitted: August 28, 2015
 Laboratory Reference: 1508-288
 Project: 21138-001-03

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-W2-33.0					
Laboratory ID:	08-288-04					
Naphthalene	ND	0.0083	EPA 8270D/SIM	8-31-15	8-31-15	
2-Methylnaphthalene	ND	0.0083	EPA 8270D/SIM	8-31-15	8-31-15	
1-Methylnaphthalene	ND	0.0083	EPA 8270D/SIM	8-31-15	8-31-15	
Acenaphthylene	ND	0.0083	EPA 8270D/SIM	8-31-15	8-31-15	
Acenaphthene	ND	0.0083	EPA 8270D/SIM	8-31-15	8-31-15	
Fluorene	ND	0.0083	EPA 8270D/SIM	8-31-15	8-31-15	
Phenanthrene	ND	0.0083	EPA 8270D/SIM	8-31-15	8-31-15	
Anthracene	ND	0.0083	EPA 8270D/SIM	8-31-15	8-31-15	
Fluoranthene	ND	0.0083	EPA 8270D/SIM	8-31-15	8-31-15	
Pyrene	ND	0.0083	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[a]anthracene	ND	0.0083	EPA 8270D/SIM	8-31-15	8-31-15	
Chrysene	ND	0.0083	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[b]fluoranthene	ND	0.0083	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo(j,k)fluoranthene	ND	0.0083	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[a]pyrene	ND	0.0083	EPA 8270D/SIM	8-31-15	8-31-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0083	EPA 8270D/SIM	8-31-15	8-31-15	
Dibenz[a,h]anthracene	ND	0.0083	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[g,h,i]perylene	ND	0.0083	EPA 8270D/SIM	8-31-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>81</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>82</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>88</i>	<i>31 - 116</i>				

Date of Report: September 1, 2015
 Samples Submitted: August 28, 2015
 Laboratory Reference: 1508-288
 Project: 21138-001-03

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST2EX-B2-36.0					
Laboratory ID:	08-288-05					
Naphthalene	ND	0.0085	EPA 8270D/SIM	8-31-15	8-31-15	
2-Methylnaphthalene	ND	0.0085	EPA 8270D/SIM	8-31-15	8-31-15	
1-Methylnaphthalene	ND	0.0085	EPA 8270D/SIM	8-31-15	8-31-15	
Acenaphthylene	ND	0.0085	EPA 8270D/SIM	8-31-15	8-31-15	
Acenaphthene	ND	0.0085	EPA 8270D/SIM	8-31-15	8-31-15	
Fluorene	ND	0.0085	EPA 8270D/SIM	8-31-15	8-31-15	
Phenanthrene	ND	0.0085	EPA 8270D/SIM	8-31-15	8-31-15	
Anthracene	ND	0.0085	EPA 8270D/SIM	8-31-15	8-31-15	
Fluoranthene	ND	0.0085	EPA 8270D/SIM	8-31-15	8-31-15	
Pyrene	ND	0.0085	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[a]anthracene	ND	0.0085	EPA 8270D/SIM	8-31-15	8-31-15	
Chrysene	ND	0.0085	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[b]fluoranthene	ND	0.0085	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo(j,k)fluoranthene	ND	0.0085	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[a]pyrene	ND	0.0085	EPA 8270D/SIM	8-31-15	8-31-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0085	EPA 8270D/SIM	8-31-15	8-31-15	
Dibenz[a,h]anthracene	ND	0.0085	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[g,h,i]perylene	ND	0.0085	EPA 8270D/SIM	8-31-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>74</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>73</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>78</i>	<i>31 - 116</i>				

Date of Report: September 1, 2015
 Samples Submitted: August 28, 2015
 Laboratory Reference: 1508-288
 Project: 21138-001-03

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0828S2					
Benzene	ND	0.020	EPA 8021B	8-28-15	8-28-15	
Toluene	ND	0.050	EPA 8021B	8-28-15	8-28-15	
Ethyl Benzene	ND	0.050	EPA 8021B	8-28-15	8-28-15	
m,p-Xylene	ND	0.050	EPA 8021B	8-28-15	8-28-15	
o-Xylene	ND	0.050	EPA 8021B	8-28-15	8-28-15	
Gasoline	ND	5.0	NWTPH-Gx	8-28-15	8-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	86	68-123				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-288-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				89	88	68-123		

SPIKE BLANKS

Laboratory ID:	SB0828S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.870	0.951	1.00	1.00	87	95	75-117	9	13
Toluene	0.875	0.967	1.00	1.00	88	97	78-118	10	12
Ethyl Benzene	0.862	0.936	1.00	1.00	86	94	78-118	8	12
m,p-Xylene	0.878	0.964	1.00	1.00	88	96	78-121	9	13
o-Xylene	0.869	0.943	1.00	1.00	87	94	77-119	8	13
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					82	87	68-123		

Date of Report: September 1, 2015
 Samples Submitted: August 28, 2015
 Laboratory Reference: 1508-288
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0829S1					
Diesel Range Organics	ND	25	NWTPH-Dx	8-29-15	8-31-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-29-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-247-04							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				97	92	50-150		

Date of Report: September 1, 2015
 Samples Submitted: August 28, 2015
 Laboratory Reference: 1508-288
 Project: 21138-001-03

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0831S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-31-15	8-31-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>81</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>83</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>90</i>	<i>31 - 116</i>				

Date of Report: September 1, 2015
 Samples Submitted: August 28, 2015
 Laboratory Reference: 1508-288
 Project: 21138-001-03

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0831S1									
Naphthalene	0.0711	0.0719	0.0833	0.0833	85	86	63 - 113	1	19	
Acenaphthylene	0.0748	0.0728	0.0833	0.0833	90	87	61 - 125	3	16	
Acenaphthene	0.0748	0.0732	0.0833	0.0833	90	88	66 - 113	2	16	
Fluorene	0.0753	0.0777	0.0833	0.0833	90	93	60 - 117	3	16	
Phenanthrene	0.0726	0.0724	0.0833	0.0833	87	87	63 - 116	0	12	
Anthracene	0.127	0.126	0.0833	0.0833	152	151	66 - 146	1	19	II
Fluoranthene	0.0717	0.0722	0.0833	0.0833	86	87	60 - 125	1	13	
Pyrene	0.0716	0.0716	0.0833	0.0833	86	86	66 - 126	0	15	
Benzo[a]anthracene	0.0826	0.0824	0.0833	0.0833	99	99	60 - 128	0	15	
Chrysene	0.0740	0.0746	0.0833	0.0833	89	90	60 - 117	1	13	
Benzo[b]fluoranthene	0.0711	0.0720	0.0833	0.0833	85	86	60 - 131	1	16	
Benzo(j,k)fluoranthene	0.0727	0.0735	0.0833	0.0833	87	88	57 - 126	1	20	
Benzo[a]pyrene	0.0699	0.0704	0.0833	0.0833	84	85	62 - 136	1	16	
Indeno(1,2,3-c,d)pyrene	0.0603	0.0632	0.0833	0.0833	72	76	60 - 127	5	19	
Dibenz[a,h]anthracene	0.0592	0.0627	0.0833	0.0833	71	75	62 - 133	6	22	
Benzo[g,h,i]perylene	0.0641	0.0668	0.0833	0.0833	77	80	63 - 129	4	22	
<i>Surrogate:</i>										
2-Fluorobiphenyl					88	87	32 - 114			
Pyrene-d10					82	83	33 - 121			
Terphenyl-d14					89	89	31 - 116			

Date of Report: September 1, 2015
Samples Submitted: August 28, 2015
Laboratory Reference: 1508-288
Project: 21138-001-03

% MOISTURE

Date Analyzed: 8-28-15

Client ID	Lab ID	% Moisture
UST2EX-S1-33.0	08-288-01	9
UST2EX-S2-33.0	08-288-02	21
UST2EX-W1-33.0	08-288-03	23
UST2EX-W2-33.0	08-288-04	19
UST2EX-B2-36.0	08-288-05	22



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Terraround Request
 (In working days)

Laboratory Number: **08-288**

(Check One)

- ~~3~~ ~~4~~ ~~10~~ ~~AM~~ ~~PM~~ ~~Day~~ Same Day (8:00 AM - 5:00 PM)
- 2 Days
- Standard (7 Days) (TPH analysis 5 Days)
- 3 Days
- (other) _____

Company: **GEOENGINEERS**
 Project Number: **21138-001-03**
 Project Name: **9th & LENDORA PROJECT**
 Project Manager: **FASIH KHAN**
 Sampled by: **FASIH KHAN**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	UST2EK-81-33.0	8/15 8/15	12:42	S
2	UST2EK-82-33.0		12:51	S
3	UST2EK-W1-33.0		10:10	S
4	UST2EK-W2-33.0		10:15	S
5	UST2EK-B2-36.0		13:10	S

Number of Containers

Parameter	1	2	3	4	5
NWTPH-HCID					
NWTPH-Gx/BTEX	(X)				
NWTPH-Gx	(X)				
NWTPH-Dx	(M)				
Volatiles 8260C					
Halogenated Volatiles 8260C					
Semivolatiles 8270D/SIM (with low-level PAHs)					
PAHs 8270D/SIM (low-level)	(X)				
PCBs 8082A					
Organochlorine Pesticides 8081B					
Organophosphorus Pesticides 8270D/SIM					
Chlorinated Acid Herbicides 8151A					
Total RCRA Metals					
Total MTCA Metals					
TCLP Metals					
HEM (oil and grease) 1664A					
% Moisture					

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	GEN	8/15/15	15:45	PAH 2 day, except #5 (1 day TTT) This sample PAHs by Monday evening (Aug 31, 2015).
<i>[Signature]</i>	Onsite	8-28-15	15:45	

Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Reviewed/Date

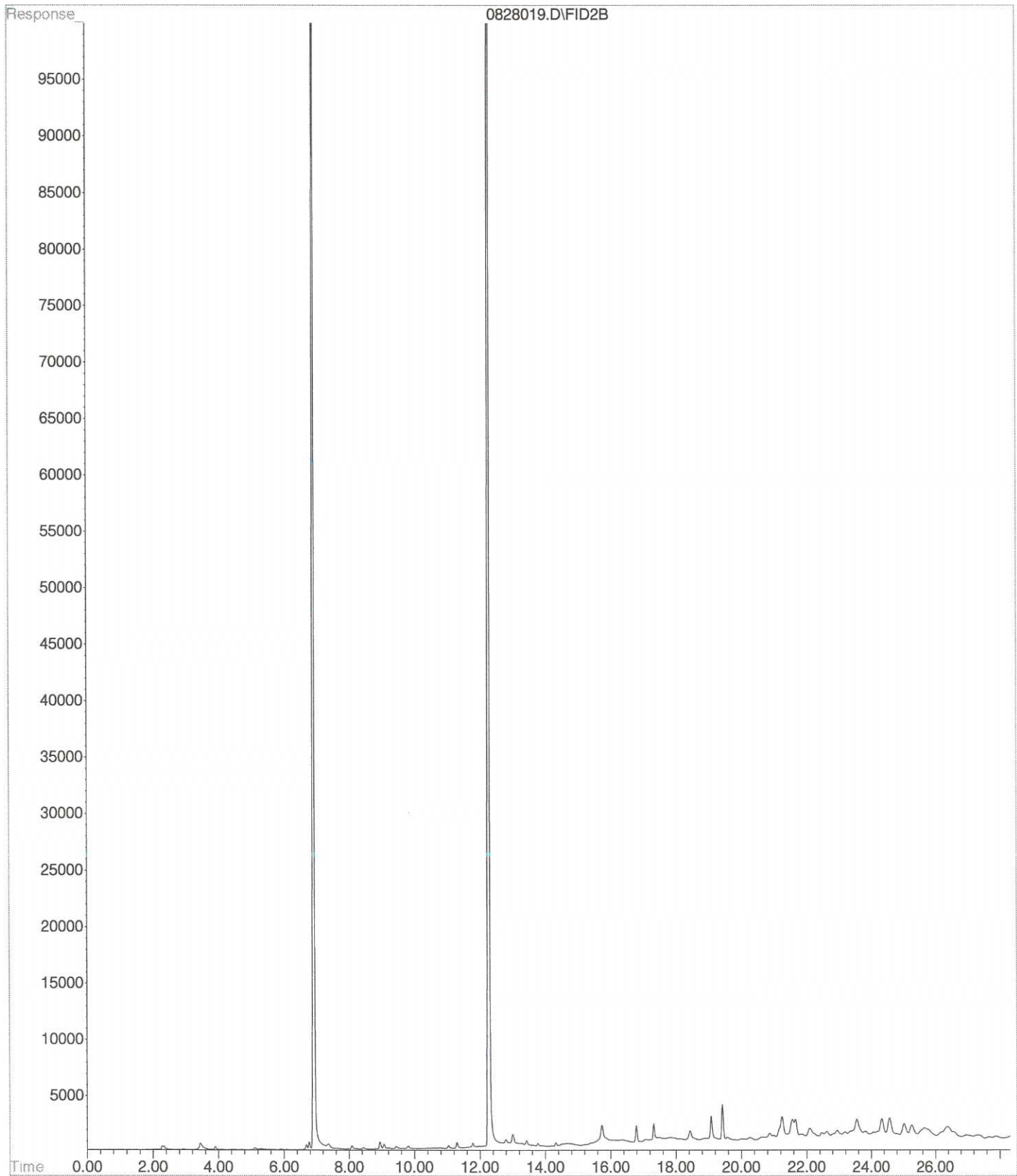
Reviewed/Date

Data Package: Standard Level III Level IV

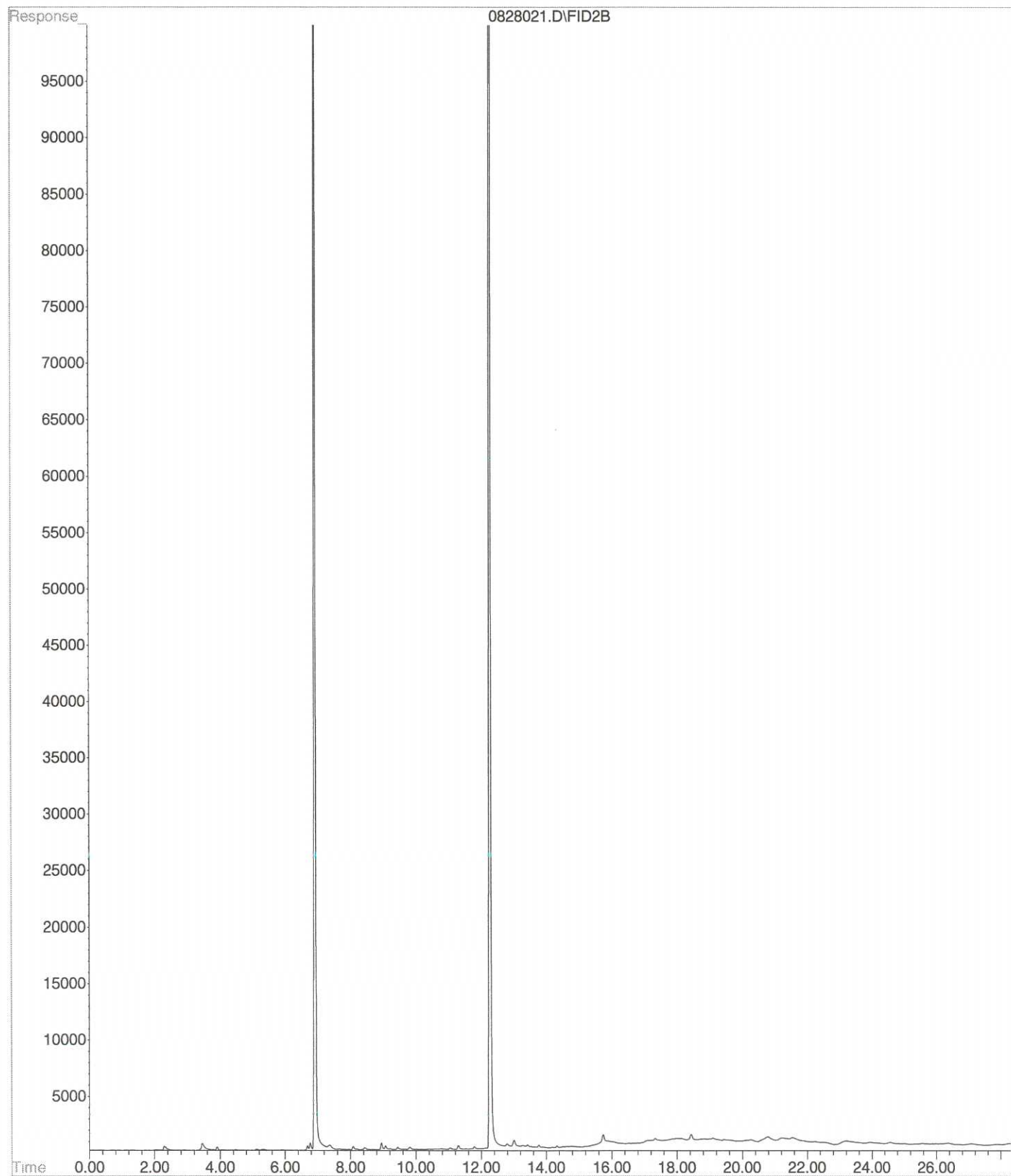
Electronic Data Deliverables (EDDs)

Chromatograms with final report

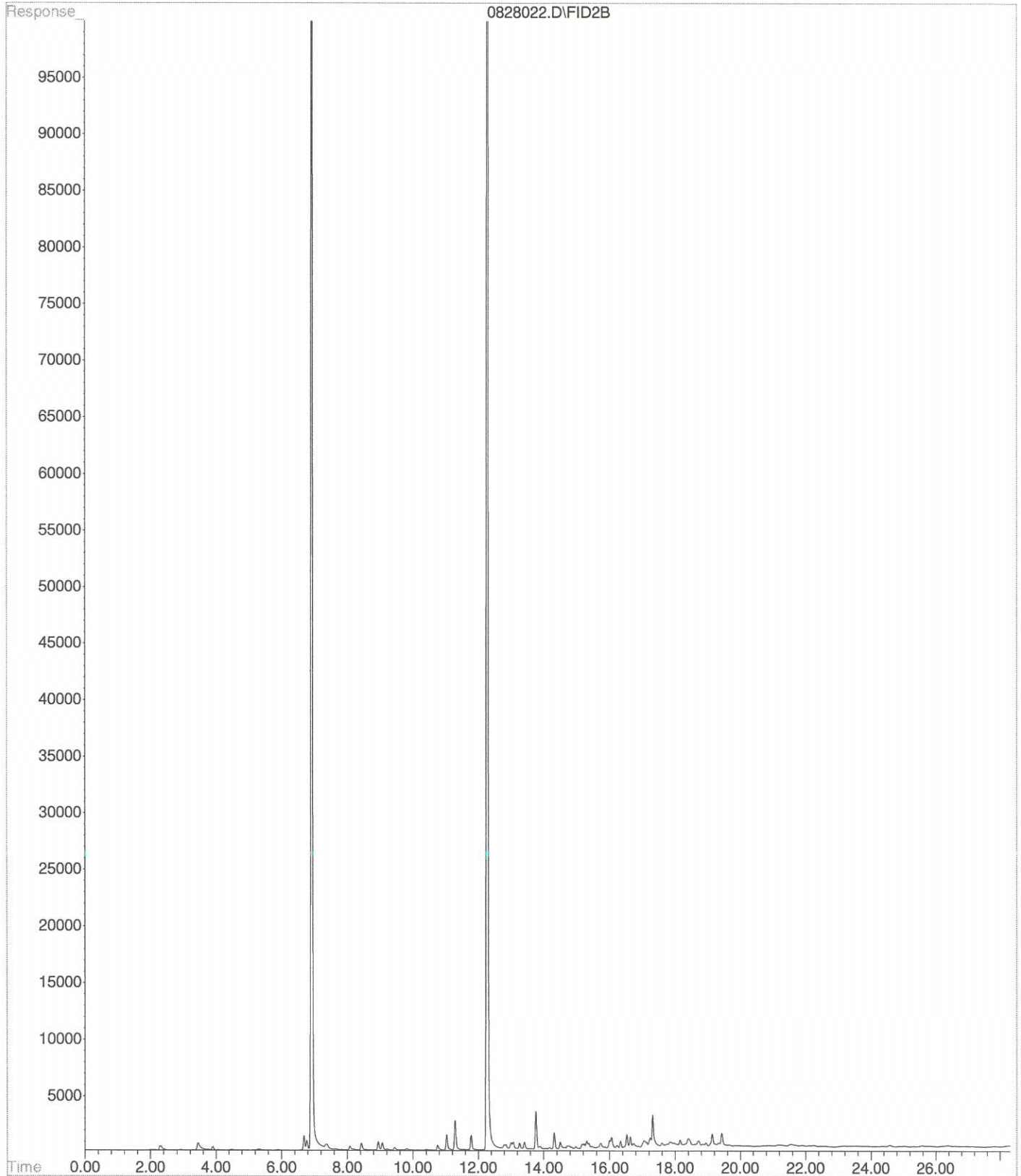
File : X:\BTEX\DARYL\DATA\D150828\0828019.D
Operator :
Acquired : 28 Aug 2015 23:29 using AcqMethod 150709B.M
Instrument : Daryl
Sample Name: 08-288-01s
Misc Info : V2-37-21
Vial Number: 19



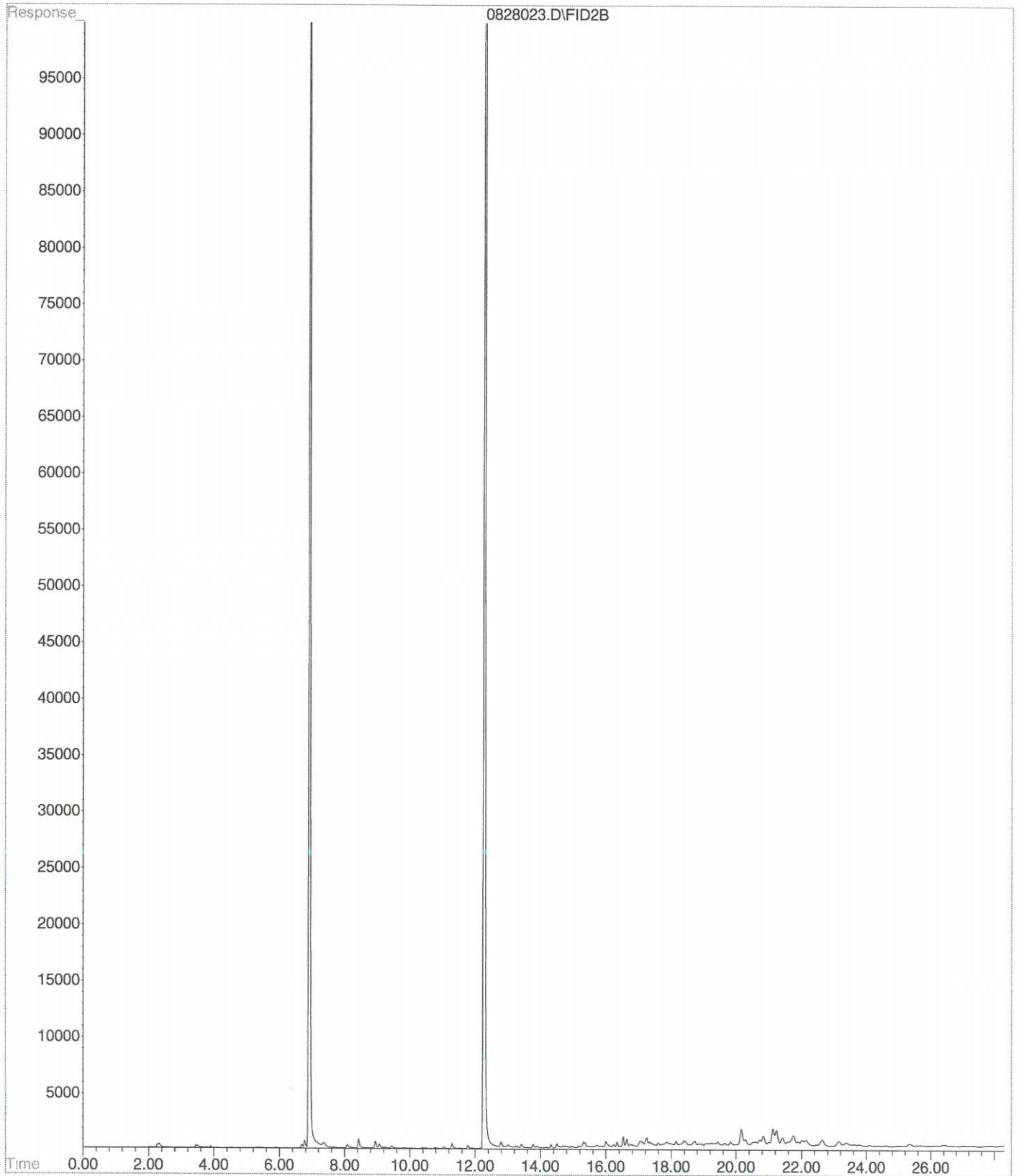
File : X:\BTEX\DARYL\DATA\D150828\0828021.D
Operator :
Acquired : 29 Aug 2015 00:36 using AcqMethod 150709B.M
Instrument : Daryl
Sample Name: 08-288-02s
Misc Info : V2-37-21
Vial Number: 21



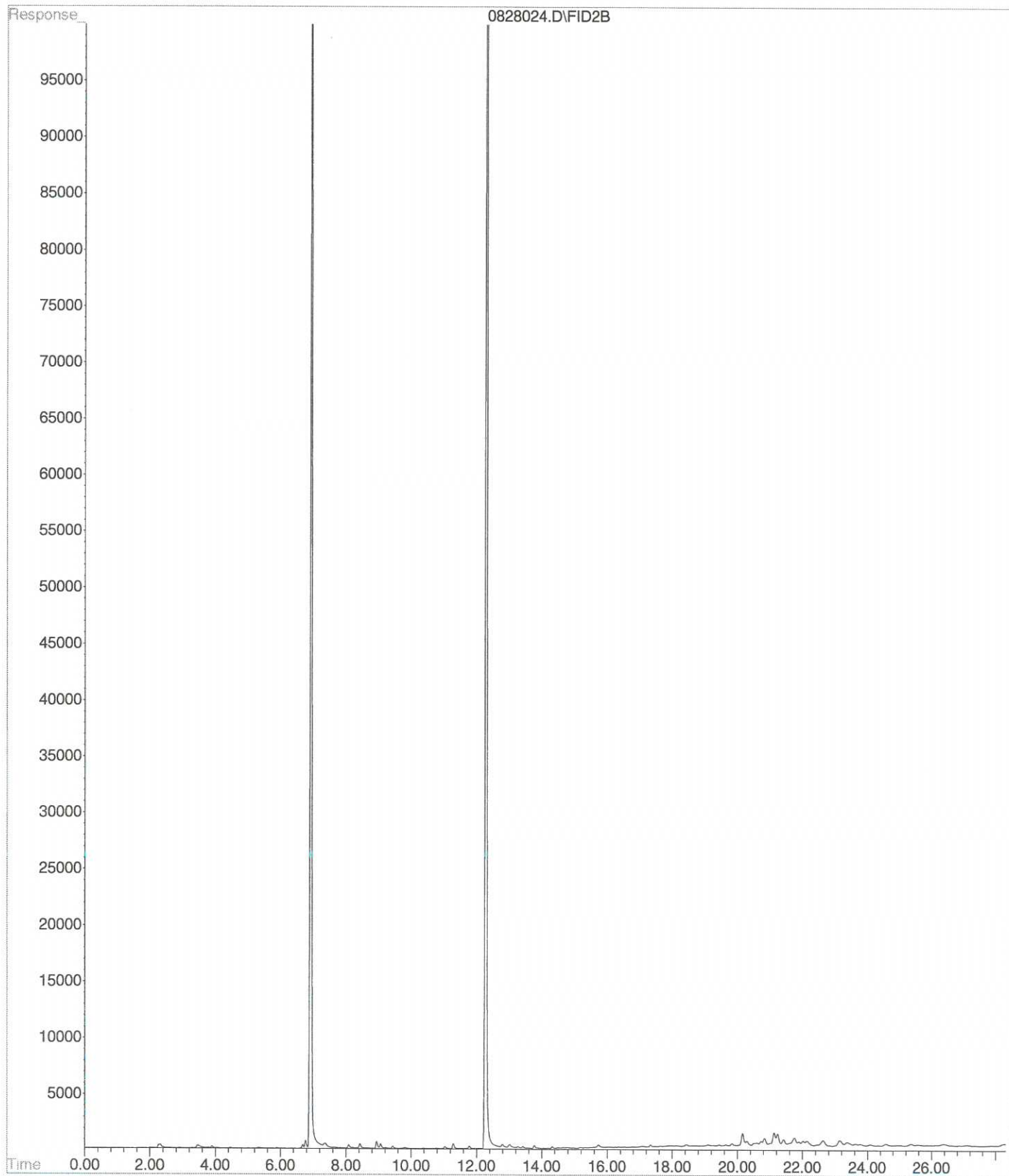
File : X:\BTEX\DARYL\DATA\D150828\0828022.D
Operator :
Acquired : 29 Aug 2015 1:10 using AcqMethod 150709B.M
Instrument : Daryl
Sample Name: 08-288-03s
Misc Info : V2-37-21
Vial Number: 22



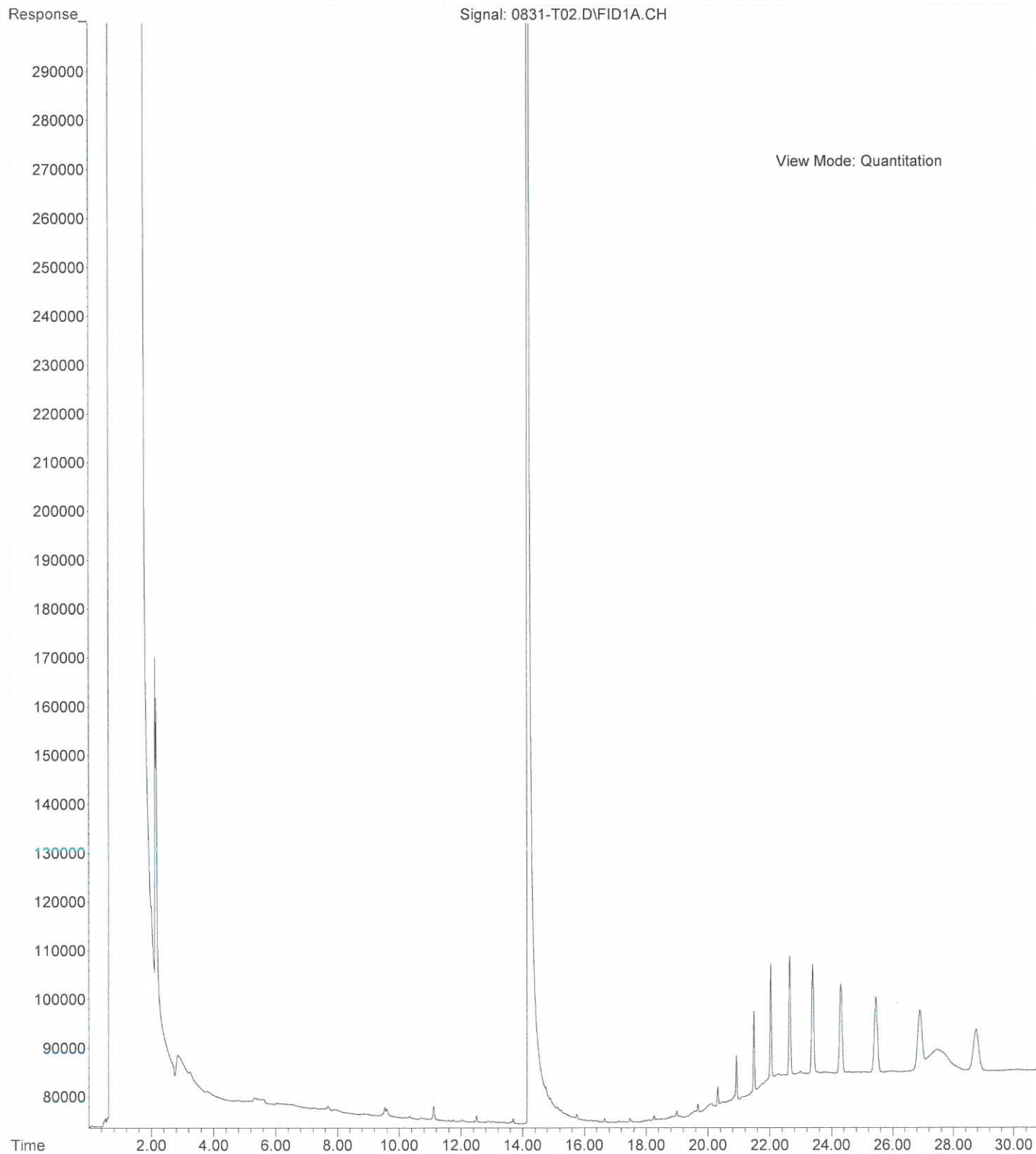
File : X:\BTEX\DARYL\DATA\D150828\0828023.D
Operator :
Acquired : 29 Aug 2015 1:43 using AcqMethod 150709B.M
Instrument : Daryl
Sample Name: 08-288-04s
Misc Info : V2-37-21
Vial Number: 23



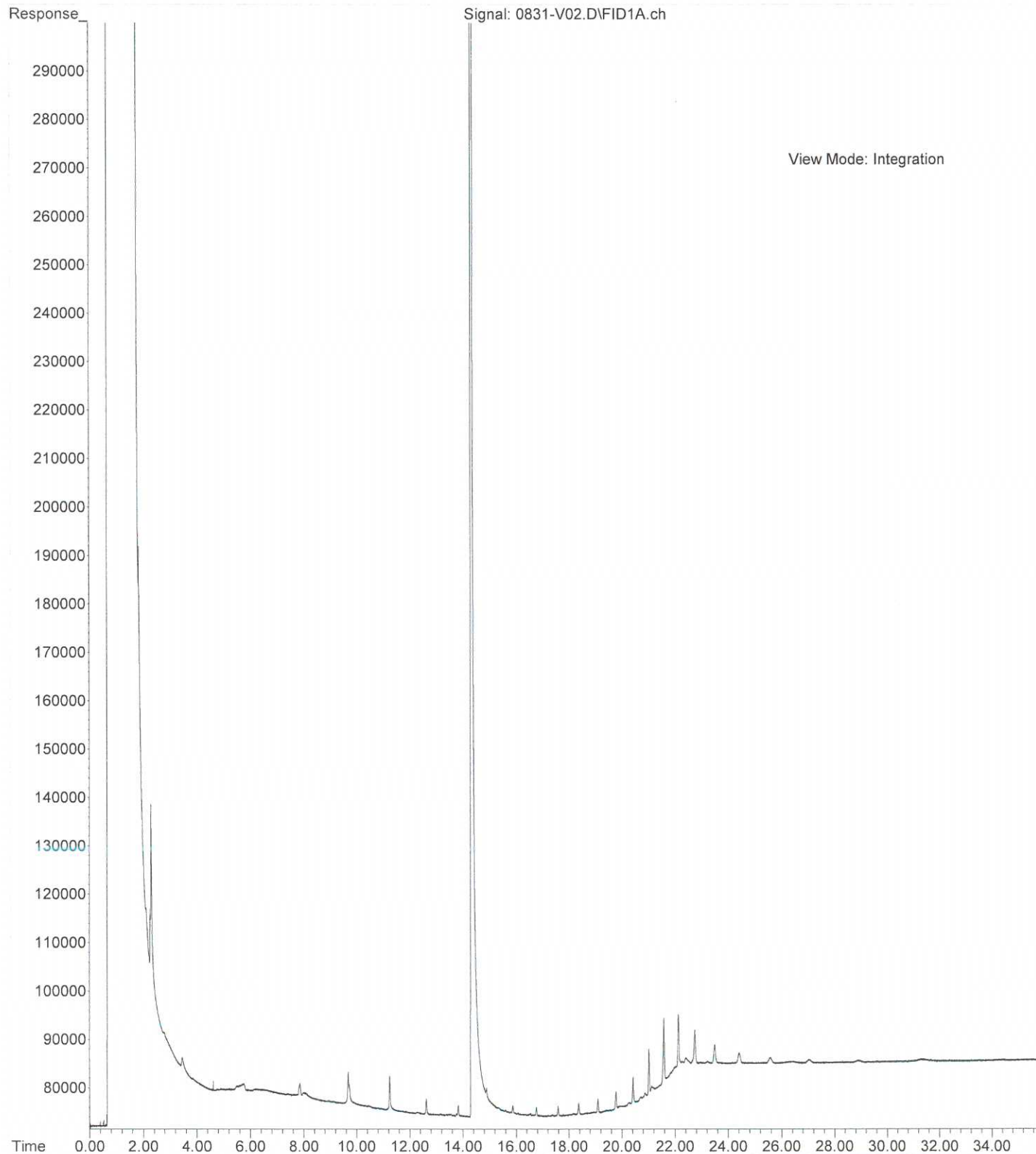
File : X:\BTEX\DARYL\DATA\D150828\0828024.D
Operator :
Acquired : 29 Aug 2015 2:16 using AcqMethod 150709B.M
Instrument : Daryl
Sample Name: 08-288-05s
Misc Info : V2-37-21
Vial Number: 24



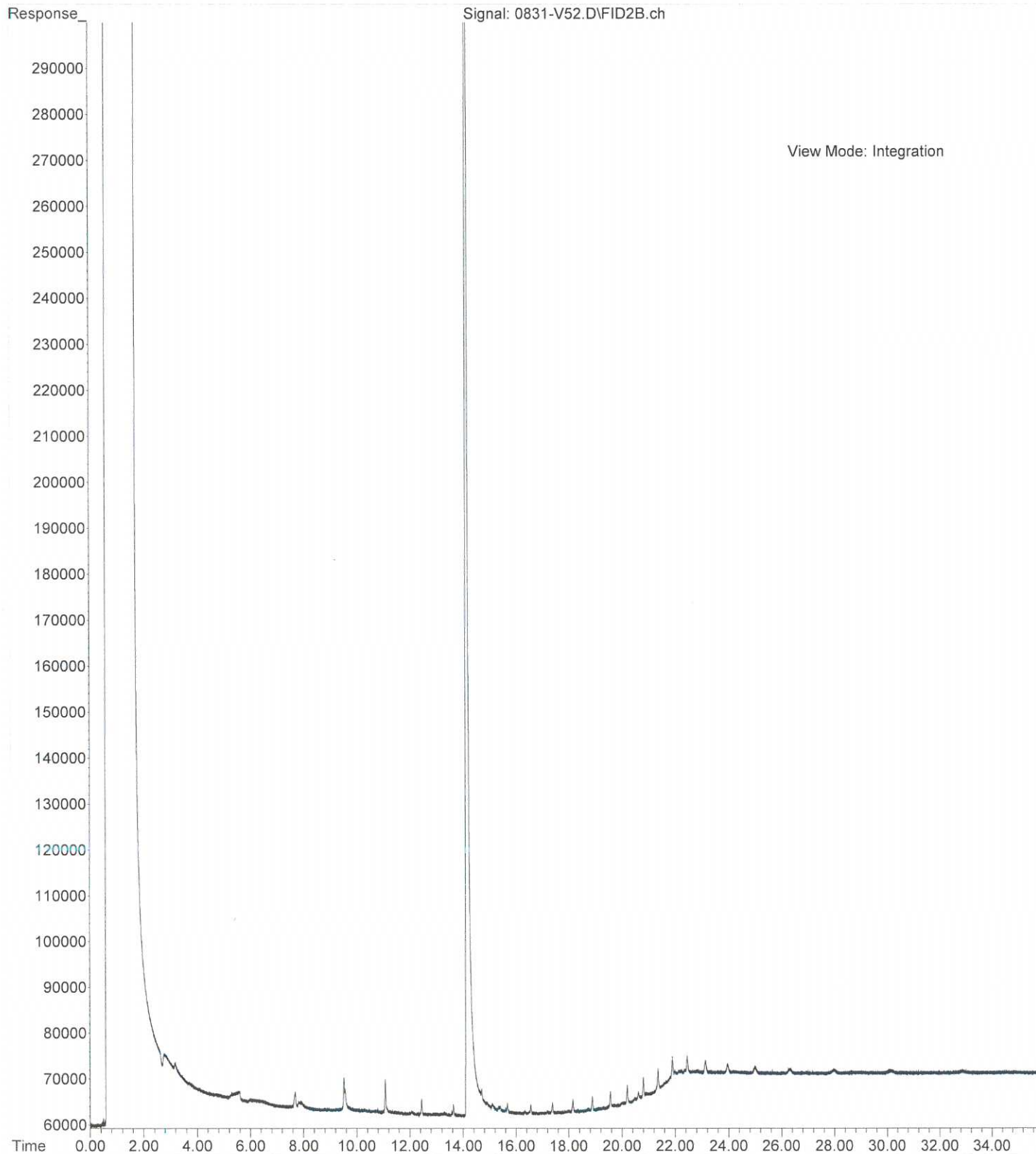
File :X:\DIESELS\TERI\DATA\T150831\0831-T02.D
Operator : ZT
Acquired : 31 Aug 2015 10:15 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-288-01
Misc Info :
Vial Number: 2



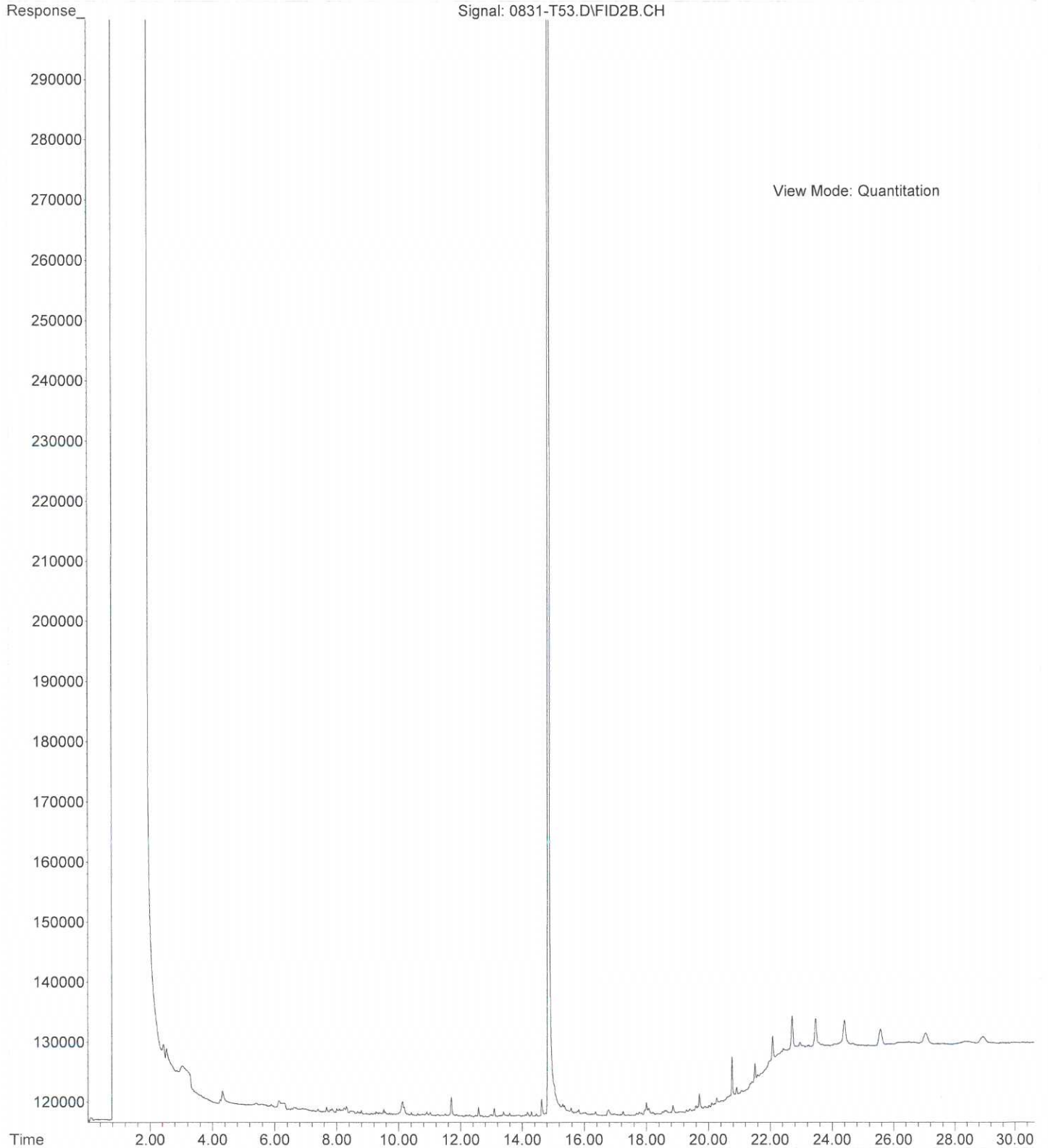
File :X:\DIESELS\VIGO\DATA\V150831\0831-V02.D
Operator :
Acquired : 31 Aug 2015 10:33 using AcqMethod V150507F.M
Instrument : Vigo
Sample Name: 08-288-02
Misc Info :
Vial Number: 2



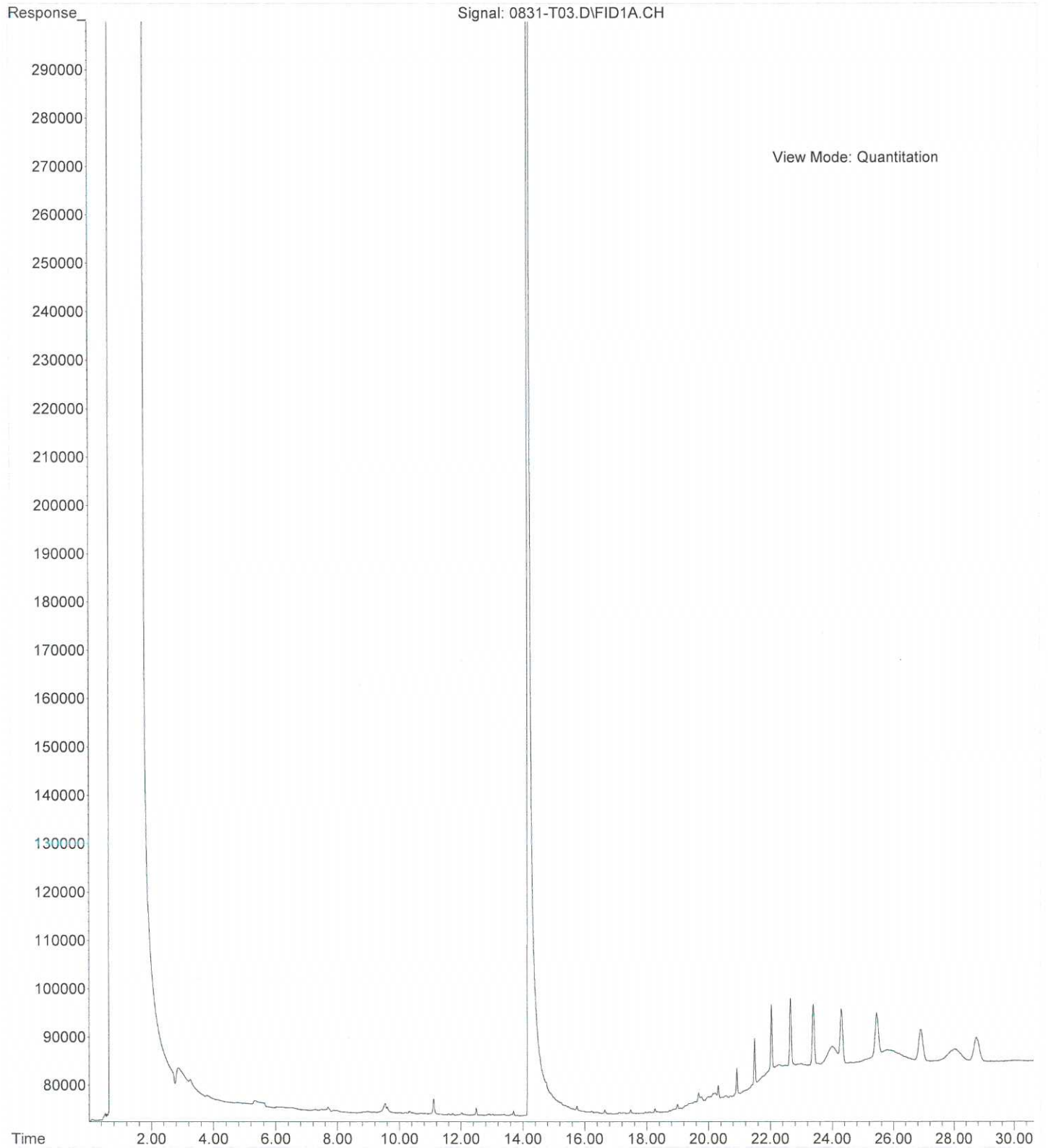
File :X:\DIESELS\VIGO\DATA\V150831.SEC\0831-V52.D
Operator :
Acquired : 31 Aug 2015 10:33 using AcqMethod V150507F.M
Instrument : Vigo
Sample Name: 08-288-03
Misc Info :
Vial Number: 52



File :X:\DIESELS\TERI\DATA\T150831.SEC\0831-T53.D
Operator : ZT
Acquired : 31 Aug 2015 10:54 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-288-04
Misc Info :
Vial Number: 53



File :X:\DIESELS\TERI\DATA\T150831\0831-T03.D
Operator : ZT
Acquired : 31 Aug 2015 10:54 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-288-05
Misc Info :
Vial Number: 3





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 13, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1508-107

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on August 12, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 13, 2015
Samples Submitted: August 12, 2015
Laboratory Reference: 1508-107
Project: 21138-001-03

Case Narrative

Samples were collected on August 12, 2015 and received by the laboratory on August 12, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 13, 2015
Samples Submitted: August 12, 2015
Laboratory Reference: 1508-107
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
ELEVTR-PRODUCT	08-107-01	Product	8-12-15	8-12-15	
HOIST-PRODUCT	08-107-02	Product	8-12-15	8-12-15	

Date of Report: August 13, 2015
 Samples Submitted: August 12, 2015
 Laboratory Reference: 1508-107
 Project: 21138-001-03

NWTPH-HCID

Matrix: Product
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ELEVTR-PRODUCT					
Laboratory ID:	08-107-01					
Gasoline Range Organics	ND	1400	NWTPH-HCID	8-12-15	8-12-15	U1
Diesel Range Organics	Detected	2500	NWTPH-HCID	8-12-15	8-12-15	N
Lube Oil	Detected	4900	NWTPH-HCID	8-12-15	8-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				

Client ID:	HOIST-PRODUCT					
Laboratory ID:	08-107-02					
Gasoline Range Organics	ND	2300	NWTPH-HCID	8-12-15	8-12-15	U1
Diesel Range Organics	Detected	2400	NWTPH-HCID	8-12-15	8-12-15	N
Lube Oil	Detected	4800	NWTPH-HCID	8-12-15	8-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	97	50-150				

Date of Report: August 13, 2015
 Samples Submitted: August 12, 2015
 Laboratory Reference: 1508-107
 Project: 21138-001-03

**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Product
 Units: mg/Kg (ppm)

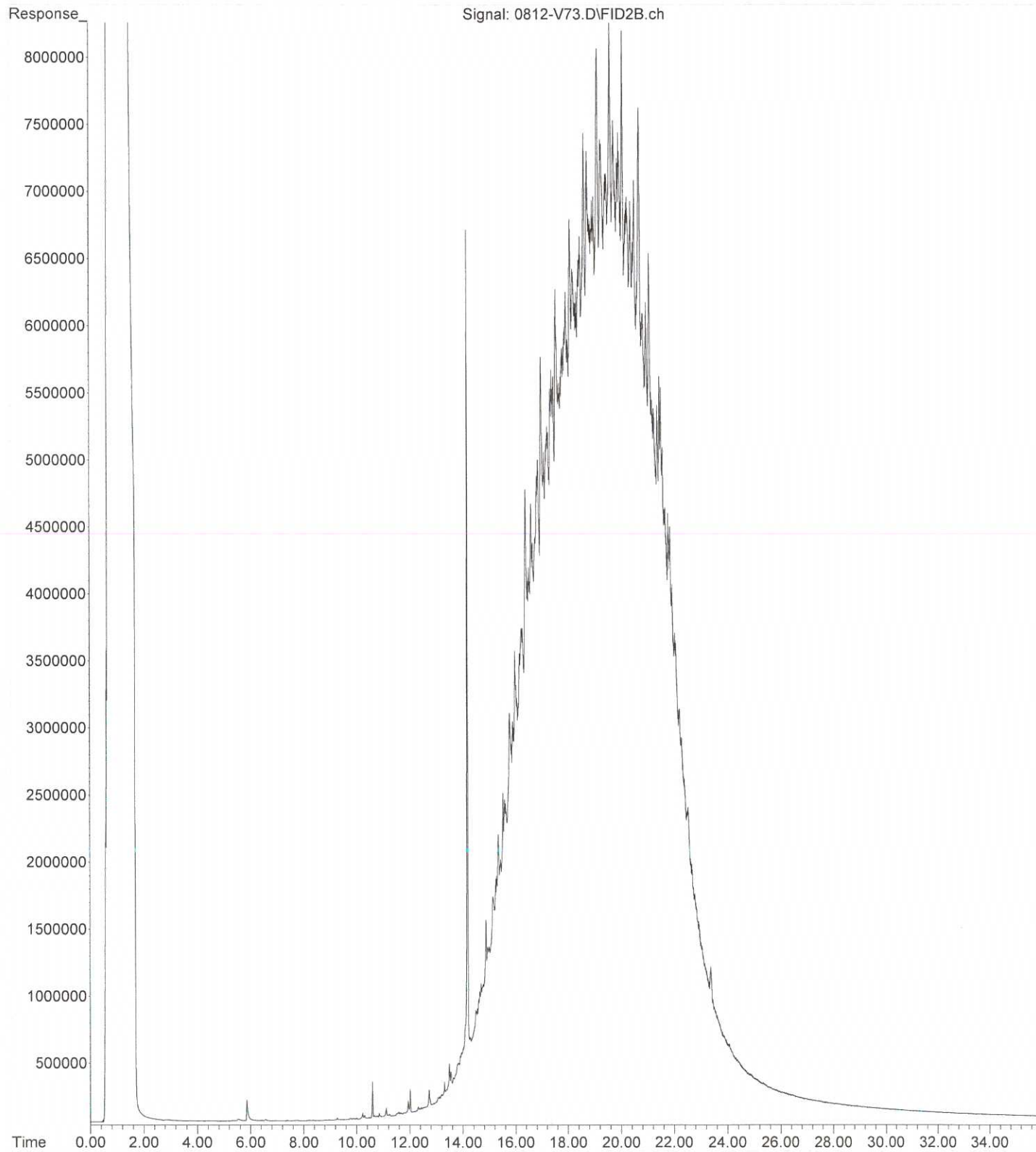
Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0812P1					
Gasoline Range Organics	ND	1000	NWTPH-HCID	8-12-15	8-12-15	
Diesel Range Organics	ND	2500	NWTPH-HCID	8-12-15	8-12-15	
Lube Oil Range Organics	ND	5000	NWTPH-HCID	8-12-15	8-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>85</i>	<i>50-150</i>				



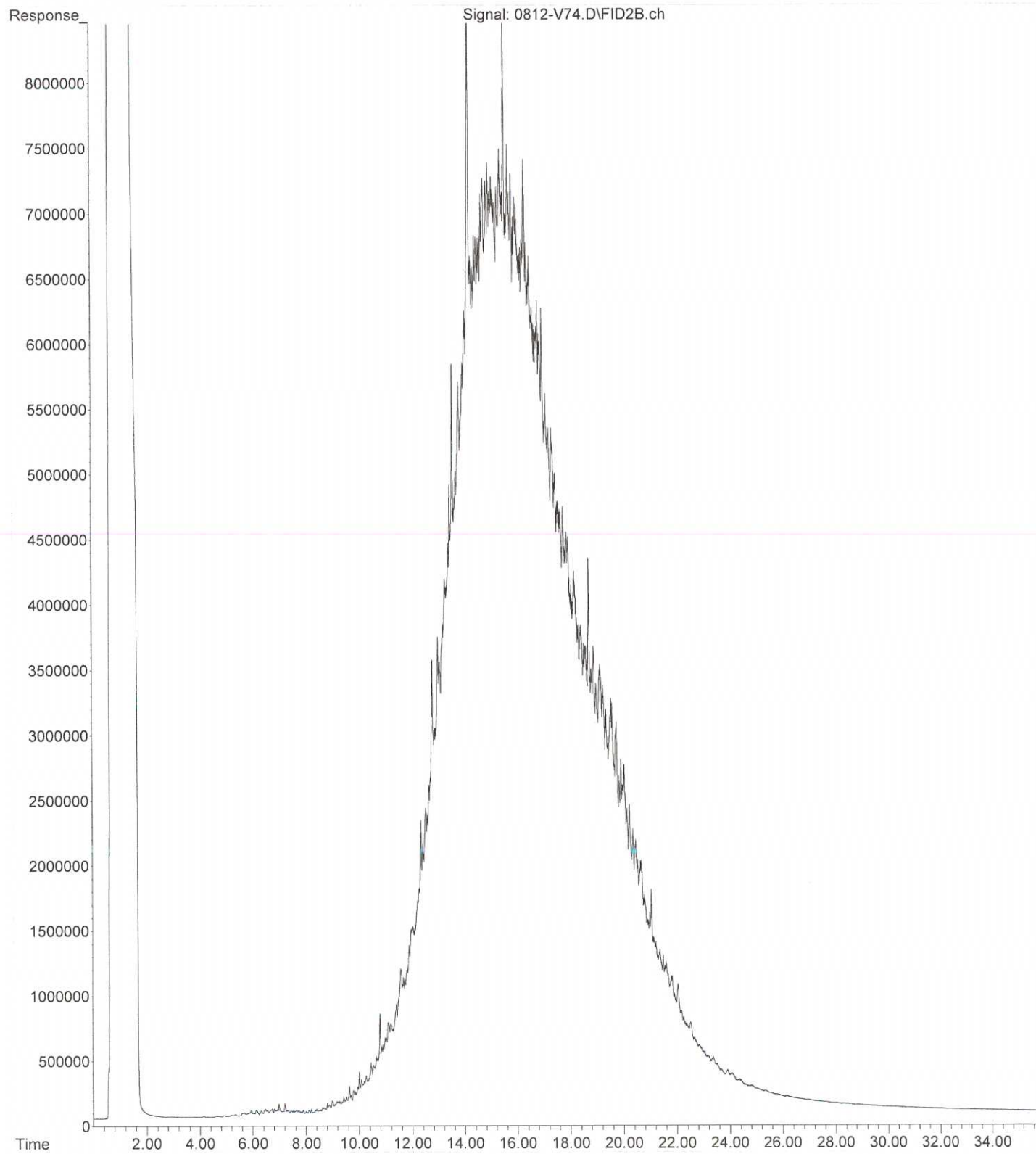
Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

File :X:\DIESELS\VIGO\DATA\V150812.SEC\0812-V73.D
Operator :
Acquired : 13 Aug 2015 3:29 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 08-107-01
Misc Info :
Vial Number: 73



File :X:\DIESELS\VIGO\DATA\V150812.SEC\0812-V74.D
Operator :
Acquired : 13 Aug 2015 4:10 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 08-107-02
Misc Info :
Vial Number: 74





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September 8, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1509-041

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on September 2, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: September 8, 2015
Samples Submitted: September 2, 2015
Laboratory Reference: 1509-041
Project: 21138-001-03

Case Narrative

Samples were collected on August 24, 25, and 26, 2015 and received by the laboratory on September 2, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: September 8, 2015
Samples Submitted: September 2, 2015
Laboratory Reference: 1509-041
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
ELEVIREX-1-20.0	09-041-01	Soil	8-26-15	9-2-15	
MASSEX-4-9.0	09-041-02	Soil	8-24-15	9-2-15	
MASSEX-10-9.0	09-041-03	Soil	8-25-15	9-2-15	

Date of Report: September 8, 2015
 Samples Submitted: September 2, 2015
 Laboratory Reference: 1509-041
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ELEVIREX-1-20.0					
Laboratory ID:	09-041-01					
Diesel Range Organics	ND	28	NWTPH-Dx	9-3-15	9-3-15	
Lube Oil Range Organics	ND	56	NWTPH-Dx	9-3-15	9-3-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	80	50-150				
Client ID:	MASSEX-4-9.0					
Laboratory ID:	09-041-02					
Diesel Range Organics	ND	28	NWTPH-Dx	9-3-15	9-3-15	
Lube Oil Range Organics	ND	56	NWTPH-Dx	9-3-15	9-3-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	75	50-150				
Client ID:	MASSEX-10-9.0					
Laboratory ID:	09-041-03					
Diesel Range Organics	ND	28	NWTPH-Dx	9-3-15	9-3-15	
Lube Oil Range Organics	ND	56	NWTPH-Dx	9-3-15	9-3-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	75	50-150				

Date of Report: September 8, 2015
 Samples Submitted: September 2, 2015
 Laboratory Reference: 1509-041
 Project: 21138-001-03

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ELEVIREX-1-20.0					
Laboratory ID:	09-041-01					
Benzo[a]anthracene	ND	0.0074	EPA 8270D/SIM	9-4-15	9-4-15	
Chrysene	ND	0.0074	EPA 8270D/SIM	9-4-15	9-4-15	
Benzo[b]fluoranthene	ND	0.0074	EPA 8270D/SIM	9-4-15	9-4-15	
Benzo(j,k)fluoranthene	ND	0.0074	EPA 8270D/SIM	9-4-15	9-4-15	
Benzo[a]pyrene	ND	0.0074	EPA 8270D/SIM	9-4-15	9-4-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0074	EPA 8270D/SIM	9-4-15	9-4-15	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270D/SIM	9-4-15	9-4-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>54</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>48</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>49</i>	<i>31 - 116</i>				

Date of Report: September 8, 2015
 Samples Submitted: September 2, 2015
 Laboratory Reference: 1509-041
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0903S1					
Diesel Range Organics	ND	25	NWTPH-Dx	9-3-15	9-3-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	9-3-15	9-3-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-036-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				69	79	50-150		

Date of Report: September 8, 2015
 Samples Submitted: September 2, 2015
 Laboratory Reference: 1509-041
 Project: 21138-001-03

**cPAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0904S1					
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	9-4-15	9-4-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	9-4-15	9-4-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	9-4-15	9-4-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	9-4-15	9-4-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	9-4-15	9-4-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	9-4-15	9-4-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	9-4-15	9-4-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>89</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>82</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>81</i>	<i>31 - 116</i>				

Date of Report: September 8, 2015
 Samples Submitted: September 2, 2015
 Laboratory Reference: 1509-041
 Project: 21138-001-03

**cPAHs EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent		Recovery		RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	09-041-01										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	0.0540	0.0470	0.0833	0.0833	ND	65	56	44 - 107	14	29	
Acenaphthylene	0.0634	0.0545	0.0833	0.0833	ND	76	65	44 - 121	15	27	
Acenaphthene	0.0565	0.0483	0.0833	0.0833	ND	68	58	47 - 109	16	26	
Fluorene	0.0579	0.0492	0.0833	0.0833	ND	70	59	49 - 115	16	28	
Phenanthrene	0.0559	0.0484	0.0833	0.0833	ND	67	58	45 - 114	14	26	
Anthracene	0.0949	0.0793	0.0833	0.0833	ND	114	95	43 - 140	18	27	
Fluoranthene	0.0546	0.0464	0.0833	0.0833	ND	66	56	44 - 126	16	27	
Pyrene	0.0542	0.0457	0.0833	0.0833	ND	65	55	43 - 125	17	27	
Benzo[a]anthracene	0.0638	0.0542	0.0833	0.0833	ND	77	65	42 - 134	16	27	
Chrysene	0.0547	0.0468	0.0833	0.0833	ND	66	56	45 - 114	16	27	
Benzo[b]fluoranthene	0.0532	0.0424	0.0833	0.0833	ND	64	51	38 - 131	23	33	
Benzo(j,k)fluoranthene	0.0464	0.0412	0.0833	0.0833	ND	56	49	44 - 114	12	34	
Benzo[a]pyrene	0.0522	0.0443	0.0833	0.0833	ND	63	53	40 - 136	16	29	
Indeno(1,2,3-c,d)pyrene	0.0483	0.0405	0.0833	0.0833	ND	58	49	45 - 126	18	30	
Dibenz[a,h]anthracene	0.0501	0.0422	0.0833	0.0833	ND	60	51	46 - 121	17	28	
Benzo[g,h,i]perylene	0.0502	0.0421	0.0833	0.0833	ND	60	51	43 - 120	18	31	
<i>Surrogate:</i>											
2-Fluorobiphenyl						67	57	32 - 114			
Pyrene-d10						59	50	33 - 121			
Terphenyl-d14						60	51	31 - 116			

Date of Report: September 8, 2015
Samples Submitted: September 2, 2015
Laboratory Reference: 1509-041
Project: 21138-001-03

% MOISTURE

Date Analyzed: 9-3-15

Client ID	Lab ID	% Moisture
ELEVIREX-1-20.0	09-041-01	10
MASSEX-4-9.0	09-041-02	11
MASSEX-10-9.0	09-041-03	10



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Onsite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)

Laboratory Number: **09-041**

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

(other)

Number of Containers

NWTPH-HCID

NWTPH-Gx/BTEX

NWTPH-Gx

NWTPH-Dx

Volatiles 8260C

Halogenated Volatiles 8260C

Semivolatiles 8270D/SIM
(with low-level PAHs)

PAHs 8270D/SIM (low-level)

PCBs 8082A

Organochlorine Pesticides 8081B

Organophosphorus Pesticides 8270D/SIM

Chlorinated Acid Herbicides 8151A

Total RCRA Metals

Total MTCA Metals

TCLP Metals

HEM (oil and grease) 1664A

PAHs

% Moisture

Date Sampled

Time Sampled

Matrix

Number of Containers

NWTPH-HCID

NWTPH-Gx/BTEX

NWTPH-Gx

NWTPH-Dx

Volatiles 8260C

Halogenated Volatiles 8260C

Semivolatiles 8270D/SIM
(with low-level PAHs)

PAHs 8270D/SIM (low-level)

PCBs 8082A

Organochlorine Pesticides 8081B

Organophosphorus Pesticides 8270D/SIM

Chlorinated Acid Herbicides 8151A

Total RCRA Metals

Total MTCA Metals

TCLP Metals

HEM (oil and grease) 1664A

PAHs

% Moisture

Company: GEODENGINEERS

Project Number: 21138-001-08

Project Name: 9th & LEVORA PROJECT

Project Manager: FASIH KHAN

Sampled by: FASIH KHAN

Sample Identification

Lab ID

1 ELEVREX-1-20.0
2 MASS EX-4-9.0
3 MASS EX-10-9.0

8/26/15 0900 S
8/24/15 1310 ↓
8/25/15 1020 ↓

1
1
1

Signature

Company

Date

Time

Comments/Special Instructions

Relinquished

GEI

9/2/15

1800

Received

Q82E

9/2/15

1800

Relinquished

Received

Relinquished

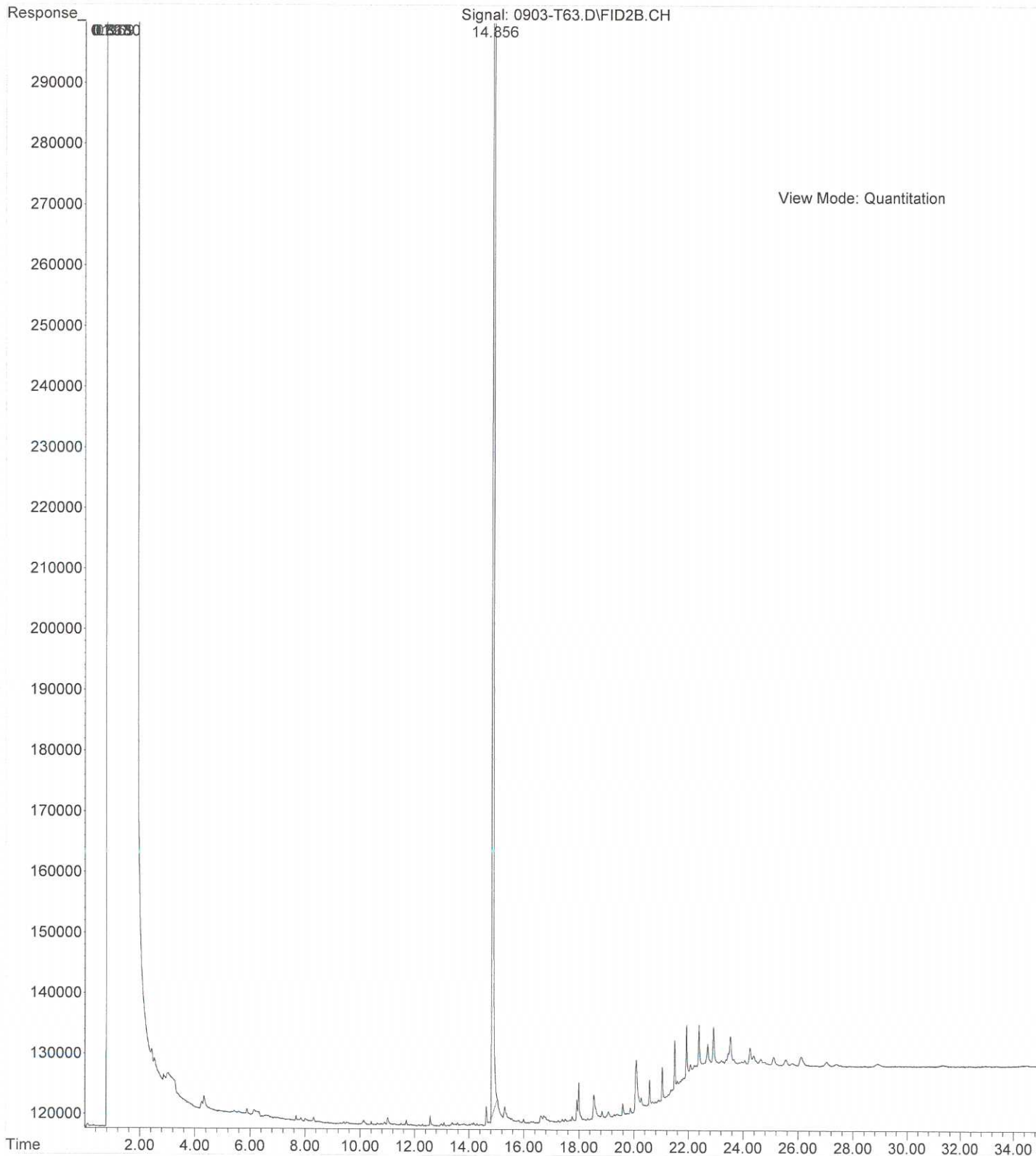
Received

Reviewed/Date

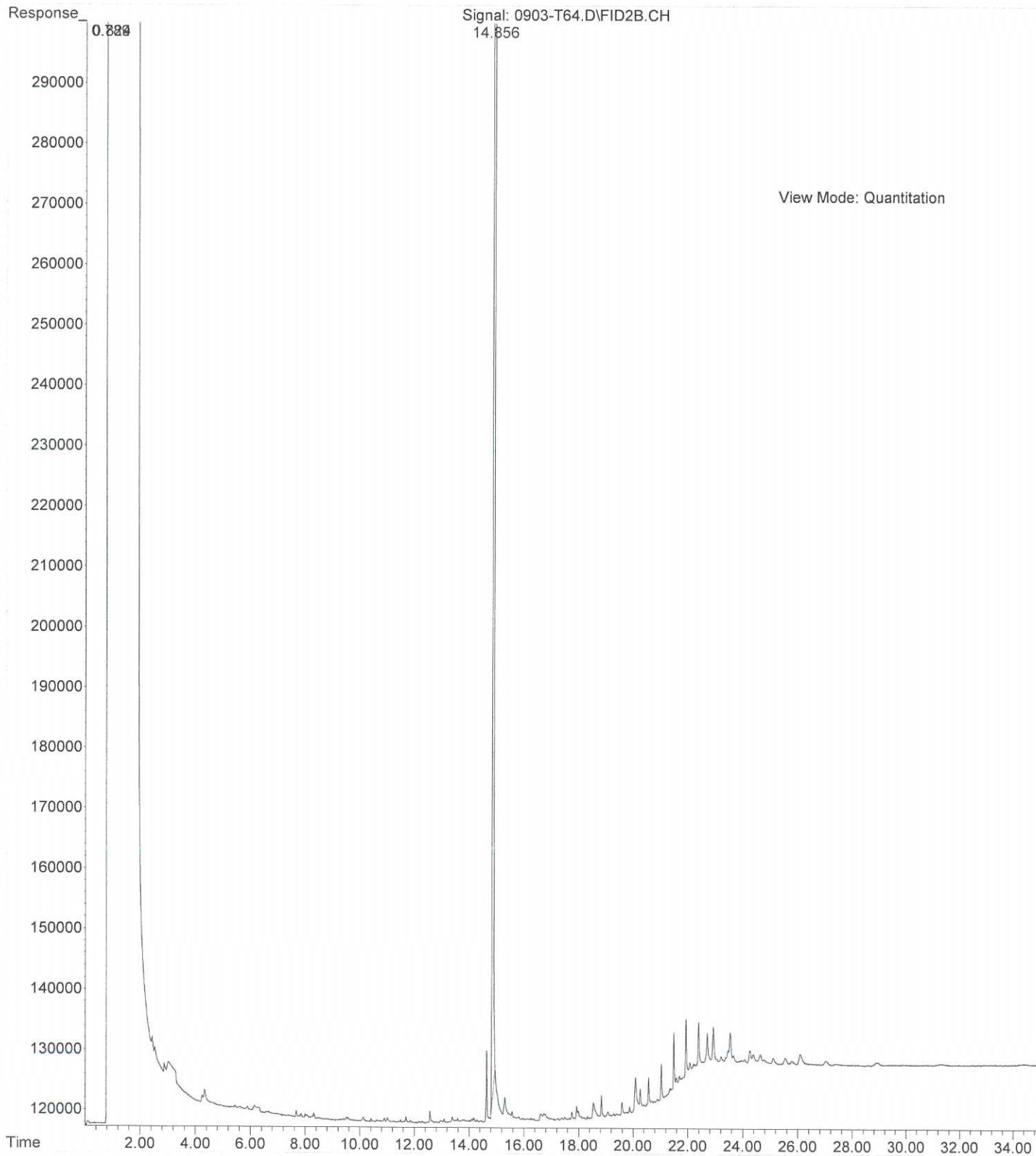
Reviewed/Date

Chromatograms with final report

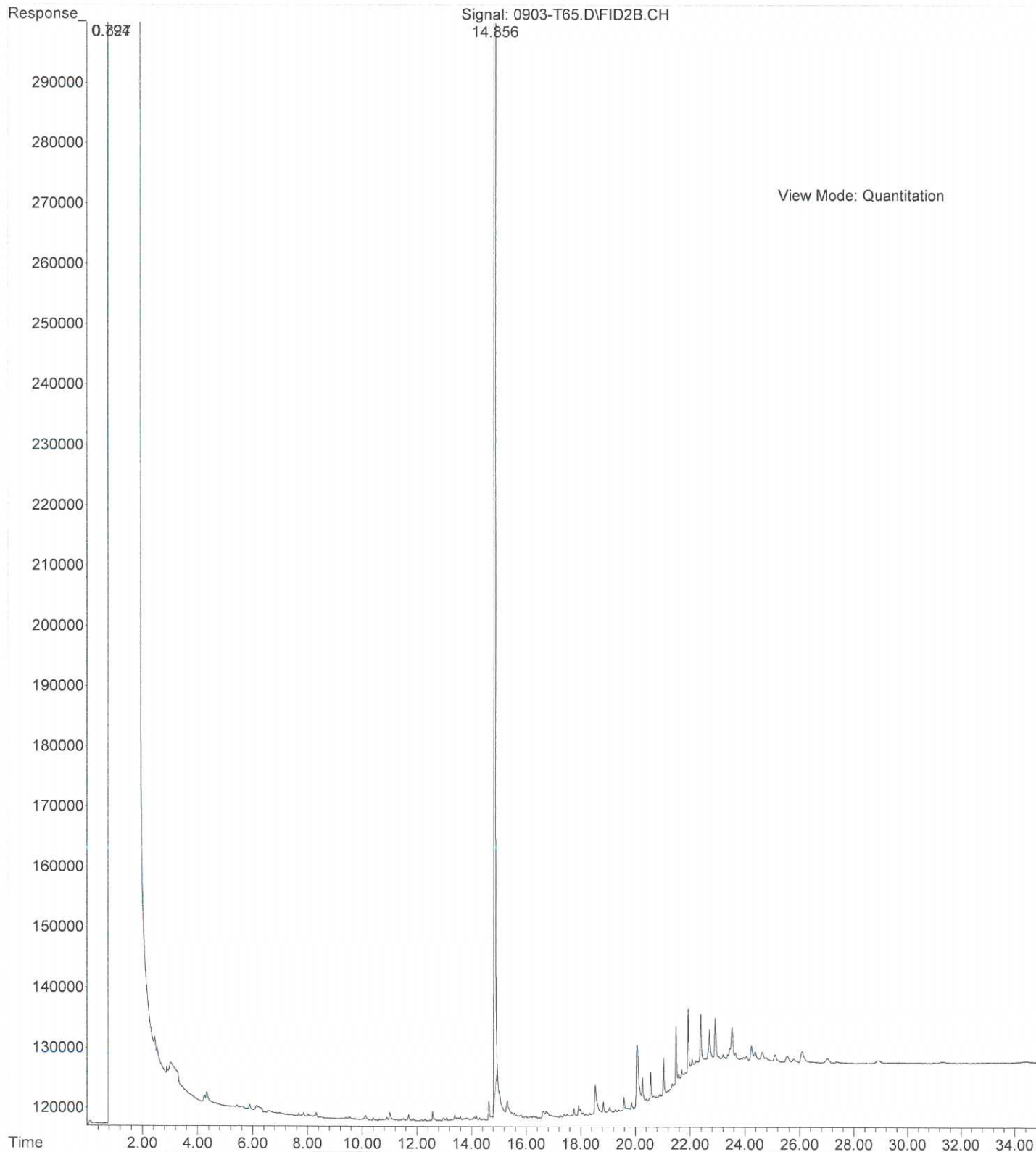
File : X:\DIESELS\TERI\DATA\T150903.SEC\0903-T63.D
Operator : ZT
Acquired : 03 Sep 2015 21:24 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 09-041-01
Misc Info :
Vial Number: 63



File :X:\DIESELS\TERI\DATA\T150903.SEC\0903-T64.D
Operator : ZT
Acquired : 03 Sep 2015 22:07 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 09-041-02
Misc Info :
Vial Number: 64



File : X:\DIESELS\TERI\DATA\T150903.SEC\0903-T65.D
Operator : ZT
Acquired : 03 Sep 2015 22:50 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 09-041-03
Misc Info :
Vial Number: 65





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 31, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1508-201

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on August 19, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Baumeister", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 31, 2015
Samples Submitted: August 19, 2015
Laboratory Reference: 1508-201
Project: 21138-001-03

Case Narrative

Samples were collected on August 14, 15, 17, 18, and 19, 2015 and received by the laboratory on August 19, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 31, 2015
Samples Submitted: August 19, 2015
Laboratory Reference: 1508-201
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MASSEX-1-10.0	08-201-01	Soil	8-14-15	8-19-15	
MASSEX-2-10.0	08-201-02	Soil	8-14-15	8-19-15	
MASSEX-3-7.0	08-201-03	Soil	8-15-15	8-19-15	
MASSEX-4-7.0	08-201-04	Soil	8-15-15	8-19-15	
MASSEX-5-7.0	08-201-05	Soil	8-17-15	8-19-15	
MASSEX-6-7.0	08-201-06	Soil	8-17-15	8-19-15	
MASSEX-7-7.0	08-201-07	Soil	8-18-15	8-19-15	
MASSEX-8-7.0	08-201-08	Soil	8-18-15	8-19-15	
MASSEX-9-8.0	08-201-09	Soil	8-19-15	8-19-15	
MASSEX-10-8.0	08-201-10	Soil	8-19-15	8-19-15	

Date of Report: August 31, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-201
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MASSEX-1-10.0					
Laboratory ID:	08-201-01					
Diesel Range Organics	ND	30	NWTPH-Dx	8-20-15	8-3-15	
Lube Oil Range Organics	ND	59	NWTPH-Dx	8-20-15	8-3-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Date of Report: August 31, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-201
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MASSEX-2-10.0					
Laboratory ID:	08-201-02					
Diesel Range Organics	ND	30	NWTPH-Dx	8-26-15	8-26-15	
Lube Oil Range Organics	ND	59	NWTPH-Dx	8-26-15	8-26-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				

Client ID:	MASSEX-3-7.0					
Laboratory ID:	08-201-03					
Diesel Range Organics	ND	30	NWTPH-Dx	8-26-15	8-26-15	
Lube Oil Range Organics	ND	60	NWTPH-Dx	8-26-15	8-26-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				

Client ID:	MASSEX-4-7.0					
Laboratory ID:	08-201-04					
Diesel Range Organics	ND	29	NWTPH-Dx	8-26-15	8-26-15	
Lube Oil	61	58	NWTPH-Dx	8-26-15	8-26-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				

Client ID:	MASSEX-5-7.0					
Laboratory ID:	08-201-05					
Diesel Range Organics	ND	31	NWTPH-Dx	8-26-15	8-26-15	
Lube Oil Range Organics	ND	61	NWTPH-Dx	8-26-15	8-26-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	81	50-150				

Client ID:	MASSEX-6-7.0					
Laboratory ID:	08-201-06					
Diesel Range Organics	ND	30	NWTPH-Dx	8-26-15	8-26-15	
Lube Oil Range Organics	ND	59	NWTPH-Dx	8-26-15	8-26-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	79	50-150				

Client ID:	MASSEX-7-7.0					
Laboratory ID:	08-201-07					
Diesel Range Organics	ND	31	NWTPH-Dx	8-26-15	8-26-15	
Lube Oil Range Organics	ND	63	NWTPH-Dx	8-26-15	8-26-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				

Date of Report: August 31, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-201
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MASSEX-8-7.0					
Laboratory ID:	08-201-08					
Diesel Range Organics	ND	31	NWTPH-Dx	8-26-15	8-26-15	
Lube Oil Range Organics	ND	61	NWTPH-Dx	8-26-15	8-26-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	79	50-150				
Client ID:	MASSEX-9-8.0					
Laboratory ID:	08-201-09					
Diesel Range Organics	ND	30	NWTPH-Dx	8-26-15	8-26-15	
Lube Oil Range Organics	ND	60	NWTPH-Dx	8-26-15	8-26-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	98	50-150				
Client ID:	MASSEX-10-8.0					
Laboratory ID:	08-201-10					
Diesel Range Organics	ND	30	NWTPH-Dx	8-26-15	8-26-15	
Lube Oil	66	59	NWTPH-Dx	8-26-15	8-26-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	93	50-150				

Date of Report: August 31, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-201
 Project: 21138-001-03

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MASSEX-1-10.0					
Laboratory ID:	08-201-01					
Benzo[a]anthracene	ND	0.0079	EPA 8270D/SIM	8-20-15	8-20-15	
Chrysene	ND	0.0079	EPA 8270D/SIM	8-20-15	8-20-15	
Benzo[b]fluoranthene	ND	0.0079	EPA 8270D/SIM	8-20-15	8-20-15	
Benzo(j,k)fluoranthene	ND	0.0079	EPA 8270D/SIM	8-20-15	8-20-15	
Benzo[a]pyrene	ND	0.0079	EPA 8270D/SIM	8-20-15	8-20-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0079	EPA 8270D/SIM	8-20-15	8-20-15	
Dibenz[a,h]anthracene	ND	0.0079	EPA 8270D/SIM	8-20-15	8-20-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>71</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>66</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>80</i>	<i>31 - 116</i>				

Date of Report: August 31, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-201
 Project: 21138-001-03

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MASSEX-2-10.0					
Laboratory ID:	08-201-02					
Benzo[a]anthracene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Chrysene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[b]fluoranthene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo(j,k)fluoranthene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[a]pyrene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Dibenz[a,h]anthracene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>105</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>65</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>109</i>	<i>31 - 116</i>				

Date of Report: August 31, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-201
 Project: 21138-001-03

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MASSEX-3-7.0					
Laboratory ID:	08-201-03					
Benzo[a]anthracene	ND	0.0080	EPA 8270D/SIM	8-24-15	8-25-15	
Chrysene	ND	0.0080	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[b]fluoranthene	ND	0.0080	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo(j,k)fluoranthene	ND	0.0080	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[a]pyrene	ND	0.0080	EPA 8270D/SIM	8-24-15	8-25-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0080	EPA 8270D/SIM	8-24-15	8-25-15	
Dibenz[a,h]anthracene	ND	0.0080	EPA 8270D/SIM	8-24-15	8-25-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	69	32 - 114				
<i>Pyrene-d10</i>	69	33 - 121				
<i>Terphenyl-d14</i>	79	31 - 116				

Date of Report: August 31, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-201
 Project: 21138-001-03

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MASSEX-4-7.0					
Laboratory ID:	08-201-04					
Benzo[a]anthracene	ND	0.0078	EPA 8270D/SIM	8-24-15	8-25-15	
Chrysene	ND	0.0078	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[b]fluoranthene	ND	0.0078	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo(j,k)fluoranthene	ND	0.0078	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[a]pyrene	ND	0.0078	EPA 8270D/SIM	8-24-15	8-25-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0078	EPA 8270D/SIM	8-24-15	8-25-15	
Dibenz[a,h]anthracene	ND	0.0078	EPA 8270D/SIM	8-24-15	8-25-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>73</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>76</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>87</i>	<i>31 - 116</i>				

Date of Report: August 31, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-201
 Project: 21138-001-03

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MASSEX-5-7.0					
Laboratory ID:	08-201-05					
Benzo[a]anthracene	ND	0.0081	EPA 8270D/SIM	8-24-15	8-25-15	
Chrysene	ND	0.0081	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[b]fluoranthene	ND	0.0081	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo(j,k)fluoranthene	ND	0.0081	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[a]pyrene	ND	0.0081	EPA 8270D/SIM	8-24-15	8-25-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0081	EPA 8270D/SIM	8-24-15	8-25-15	
Dibenz[a,h]anthracene	ND	0.0081	EPA 8270D/SIM	8-24-15	8-25-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>64</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>71</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>79</i>	<i>31 - 116</i>				

Date of Report: August 31, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-201
 Project: 21138-001-03

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MASSEX-6-7.0					
Laboratory ID:	08-201-06					
Benzo[a]anthracene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Chrysene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[b]fluoranthene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo(j,k)fluoranthene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[a]pyrene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Dibenz[a,h]anthracene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>68</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>69</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>79</i>	<i>31 - 116</i>				

Date of Report: August 31, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-201
 Project: 21138-001-03

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MASSEX-7-7.0					
Laboratory ID:	08-201-07					
Benzo[a]anthracene	ND	0.0083	EPA 8270D/SIM	8-24-15	8-25-15	
Chrysene	ND	0.0083	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[b]fluoranthene	ND	0.0083	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo(j,k)fluoranthene	ND	0.0083	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[a]pyrene	ND	0.0083	EPA 8270D/SIM	8-24-15	8-25-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0083	EPA 8270D/SIM	8-24-15	8-25-15	
Dibenz[a,h]anthracene	ND	0.0083	EPA 8270D/SIM	8-24-15	8-25-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	62	32 - 114				
<i>Pyrene-d10</i>	66	33 - 121				
<i>Terphenyl-d14</i>	76	31 - 116				

Date of Report: August 31, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-201
 Project: 21138-001-03

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MASSEX-8-7.0					
Laboratory ID:	08-201-08					
Benzo[a]anthracene	ND	0.0081	EPA 8270D/SIM	8-24-15	8-25-15	
Chrysene	ND	0.0081	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[b]fluoranthene	ND	0.0081	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo(j,k)fluoranthene	ND	0.0081	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[a]pyrene	ND	0.0081	EPA 8270D/SIM	8-24-15	8-25-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0081	EPA 8270D/SIM	8-24-15	8-25-15	
Dibenz[a,h]anthracene	ND	0.0081	EPA 8270D/SIM	8-24-15	8-25-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>60</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>63</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>70</i>	<i>31 - 116</i>				

Date of Report: August 31, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-201
 Project: 21138-001-03

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MASSEX-9-8.0					
Laboratory ID:	08-201-09					
Benzo[a]anthracene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Chrysene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[b]fluoranthene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo(j,k)fluoranthene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[a]pyrene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Dibenz[a,h]anthracene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>68</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>67</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>77</i>	<i>31 - 116</i>				

Date of Report: August 31, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-201
 Project: 21138-001-03

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MASSEX-10-8.0					
Laboratory ID:	08-201-10					
Benzo[a]anthracene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Chrysene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[b]fluoranthene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo(j,k)fluoranthene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[a]pyrene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
Dibenz[a,h]anthracene	ND	0.0079	EPA 8270D/SIM	8-24-15	8-25-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>61</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>63</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>73</i>	<i>31 - 116</i>				

Date of Report: August 31, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-201
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0820S1					
Diesel Range Organics	ND	25	NWTPH-Dx	8-20-15	8-3-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-20-15	8-3-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>111</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-203-04							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil	71.9	65.6	NA	NA	NA	NA	9	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				<i>101</i>	<i>95</i>	<i>50-150</i>		

Date of Report: August 31, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-201
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0826S1					
Diesel Range Organics	ND	25	NWTPH-Dx	8-26-15	8-26-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-26-15	8-26-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-201-04							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil	52.0	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>			85	93	50-150			

Date of Report: August 31, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-201
 Project: 21138-001-03

**cPAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0820S2					
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-20-15	8-20-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-20-15	8-20-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-20-15	8-20-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-20-15	8-20-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-20-15	8-20-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-20-15	8-20-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-20-15	8-20-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>91</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>93</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>104</i>	<i>31 - 116</i>				

Date of Report: August 31, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-201
 Project: 21138-001-03

**cPAHs EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
MATRIX SPIKES										
Laboratory ID:	08-201-01									
	MS	MSD	MS	MSD		MS	MSD			
Naphthalene	0.0602	0.0620	0.0833	0.0833	ND	72	74	44 - 107	3	29
Acenaphthylene	0.0598	0.0615	0.0833	0.0833	ND	72	74	44 - 121	3	27
Acenaphthene	0.0607	0.0621	0.0833	0.0833	ND	73	75	47 - 109	2	26
Fluorene	0.0620	0.0629	0.0833	0.0833	ND	74	76	49 - 115	1	28
Phenanthrene	0.0597	0.0590	0.0833	0.0833	ND	72	71	45 - 114	1	26
Anthracene	0.0912	0.0900	0.0833	0.0833	ND	109	108	43 - 140	1	27
Fluoranthene	0.0557	0.0549	0.0833	0.0833	ND	67	66	44 - 126	1	27
Pyrene	0.0612	0.0606	0.0833	0.0833	ND	73	73	43 - 125	1	27
Benzo[a]anthracene	0.0694	0.0687	0.0833	0.0833	ND	83	82	42 - 134	1	27
Chrysene	0.0569	0.0564	0.0833	0.0833	ND	68	68	45 - 114	1	27
Benzo[b]fluoranthene	0.0571	0.0575	0.0833	0.0833	ND	69	69	38 - 131	1	33
Benzo(j,k)fluoranthene	0.0604	0.0596	0.0833	0.0833	ND	73	72	44 - 114	1	34
Benzo[a]pyrene	0.0609	0.0608	0.0833	0.0833	ND	73	73	40 - 136	0	29
Indeno(1,2,3-c,d)pyrene	0.0586	0.0586	0.0833	0.0833	ND	70	70	45 - 126	0	30
Dibenz[a,h]anthracene	0.0556	0.0558	0.0833	0.0833	ND	67	67	46 - 121	0	28
Benzo[g,h,i]perylene	0.0589	0.0594	0.0833	0.0833	ND	71	71	43 - 120	1	31
<i>Surrogate:</i>										
2-Fluorobiphenyl						82	85	32 - 114		
Pyrene-d10						70	70	33 - 121		
Terphenyl-d14						87	88	31 - 116		

Date of Report: August 31, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-201
 Project: 21138-001-03

**cPAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0824S1					
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-24-15	8-25-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-24-15	8-25-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-24-15	8-25-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-24-15	8-25-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>80</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>86</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>94</i>	<i>31 - 116</i>				

Date of Report: August 31, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-201
 Project: 21138-001-03

**cPAHs EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
MATRIX SPIKES										
Laboratory ID:	08-201-02									
	MS	MSD	MS	MSD		MS	MSD			
Naphthalene	0.0625	0.0608	0.0833	0.0833	ND	75	73	44 - 107	3	29
Acenaphthylene	0.0667	0.0662	0.0833	0.0833	ND	80	79	44 - 121	1	27
Acenaphthene	0.0666	0.0659	0.0833	0.0833	ND	80	79	47 - 109	1	26
Fluorene	0.0710	0.0686	0.0833	0.0833	ND	85	82	49 - 115	3	28
Phenanthrene	0.0645	0.0630	0.0833	0.0833	ND	77	76	45 - 114	2	26
Anthracene	0.104	0.102	0.0833	0.0833	ND	125	122	43 - 140	2	27
Fluoranthene	0.0642	0.0627	0.0833	0.0833	ND	77	75	44 - 126	2	27
Pyrene	0.0684	0.0663	0.0833	0.0833	ND	82	80	43 - 125	3	27
Benzo[a]anthracene	0.0810	0.0787	0.0833	0.0833	ND	97	94	42 - 134	3	27
Chrysene	0.0609	0.0596	0.0833	0.0833	ND	73	72	45 - 114	2	27
Benzo[b]fluoranthene	0.0721	0.0694	0.0833	0.0833	ND	87	83	38 - 131	4	33
Benzo(j,k)fluoranthene	0.0647	0.0636	0.0833	0.0833	ND	78	76	44 - 114	2	34
Benzo[a]pyrene	0.0735	0.0721	0.0833	0.0833	ND	88	87	40 - 136	2	29
Indeno(1,2,3-c,d)pyrene	0.0708	0.0709	0.0833	0.0833	ND	85	85	45 - 126	0	30
Dibenz[a,h]anthracene	0.0667	0.0651	0.0833	0.0833	ND	80	78	46 - 121	2	28
Benzo[g,h,i]perylene	0.0680	0.0664	0.0833	0.0833	ND	82	80	43 - 120	2	31
<i>Surrogate:</i>										
2-Fluorobiphenyl						75	75	32 - 114		
Pyrene-d10						76	74	33 - 121		
Terphenyl-d14						87	85	31 - 116		

Date of Report: August 31, 2015
Samples Submitted: August 19, 2015
Laboratory Reference: 1508-201
Project: 21138-001-03

% MOISTURE

Date Analyzed: 8-20&24-15

Client ID	Lab ID	% Moisture
MASSEX-1-10.0	08-201-01	15
MASSEX-2-10.0	08-201-02	15
MASSEX-3-7.0	08-201-03	17
MASSEX-4-7.0	08-201-04	14
MASSEX-5-7.0	08-201-05	18
MASSEX-6-7.0	08-201-06	15
MASSEX-7-7.0	08-201-07	20
MASSEX-8-7.0	08-201-08	18
MASSEX-9-8.0	08-201-09	16
MASSEX-10-8.0	08-201-10	16



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



OnSite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request (in working days)

Laboratory Number: **08-201**

Company: **GEOENGINEERS**
 Project Number: **21138-001-03**
 Project Name: **9th & LENORA PROJECT**
 Project Manager: **FASIH KHAN**
 Sampled by: **FASIH KHAN**

No (Check One) Yes
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days) (TPH analysis 5 Days)
 (other) _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Date	Time	Comments/Special Instructions
1	MASSEX-1-10.0	8/14/15	1400	S	1	8/19/15	1640	O Added 8/21/15. (STA)
2	MASSEX-2-10.0	8/14/15	1420	S	1	8/19/15	1640	
3	MASSEX-3-7.0	8/15/15	1210	S	1	8/19/15	1640	
4	MASSEX-4-7.0	8/15/15	1220	S	1	8/19/15	1640	
5	MASSEX-5-7.0	8/17/15	1310	S	1	8/19/15	1640	
6	MASSEX-6-7.0	8/17/15	1335	S	1	8/19/15	1640	
7	MASSEX-7-7.0	8/18/15	1030	S	1	8/19/15	1640	
8	MASSEX-8-7.0	8/18/15	1045	S	1	8/19/15	1640	
9	MASSEX-9-8.0	8/19/15	1130	S	1	8/19/15	1640	
10	MASSEX-10-8.0	8/19/15	1150	S	1	8/19/15	1640	

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	CPAHs	H O L D	% Moisture
1				<input checked="" type="checkbox"/>													<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
1				<input type="checkbox"/>													<input type="checkbox"/>		<input type="checkbox"/>
1				<input type="checkbox"/>													<input type="checkbox"/>		<input type="checkbox"/>
1				<input type="checkbox"/>													<input type="checkbox"/>		<input type="checkbox"/>
1				<input type="checkbox"/>													<input type="checkbox"/>		<input type="checkbox"/>
1				<input type="checkbox"/>													<input type="checkbox"/>		<input type="checkbox"/>
1				<input type="checkbox"/>													<input type="checkbox"/>		<input type="checkbox"/>
1				<input type="checkbox"/>													<input type="checkbox"/>		<input type="checkbox"/>
1				<input type="checkbox"/>													<input type="checkbox"/>		<input type="checkbox"/>

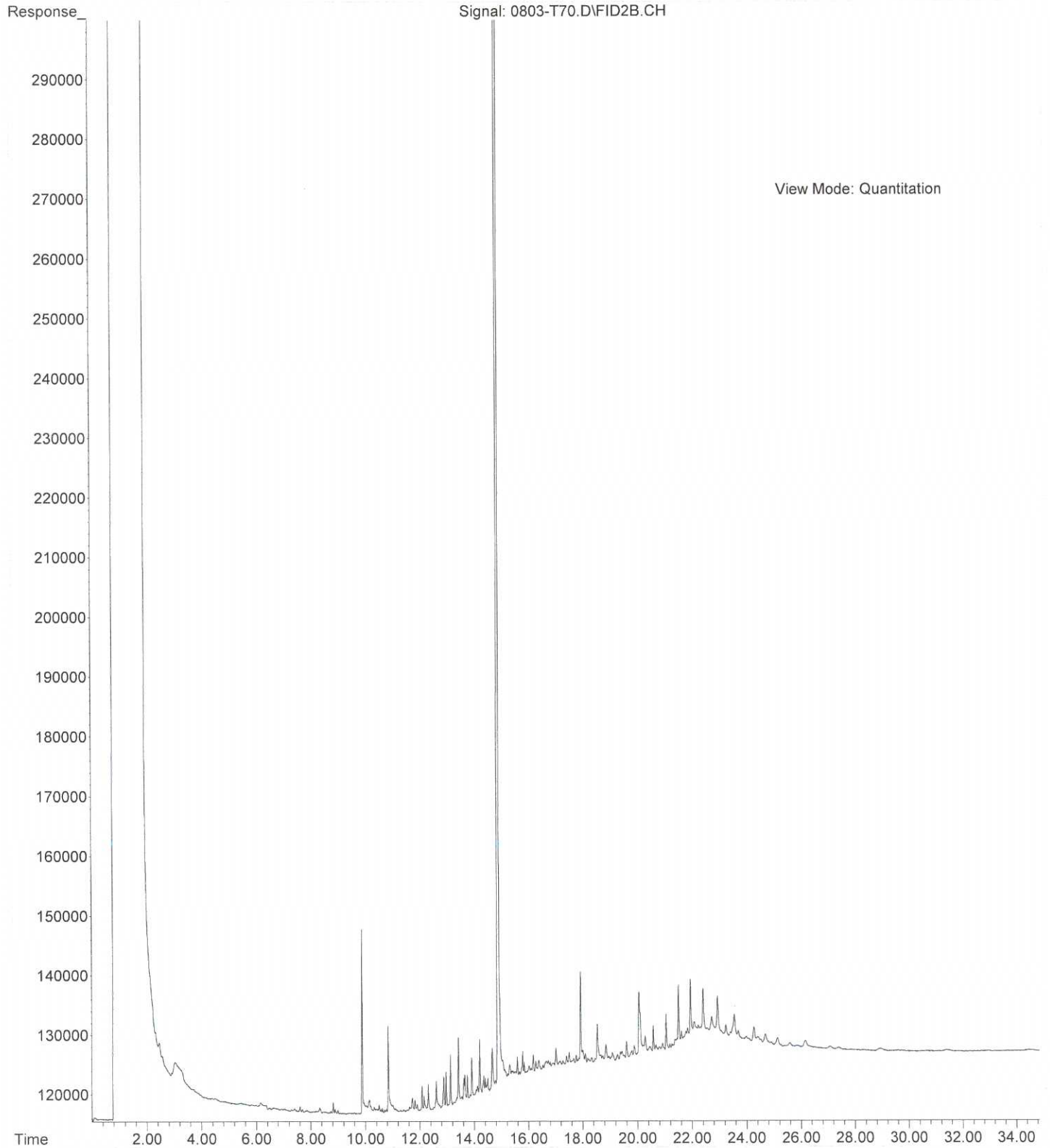
Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Received _____

Signature: _____
 Company: **GEN**
 Date: **8/19/15**
 Time: **1640**

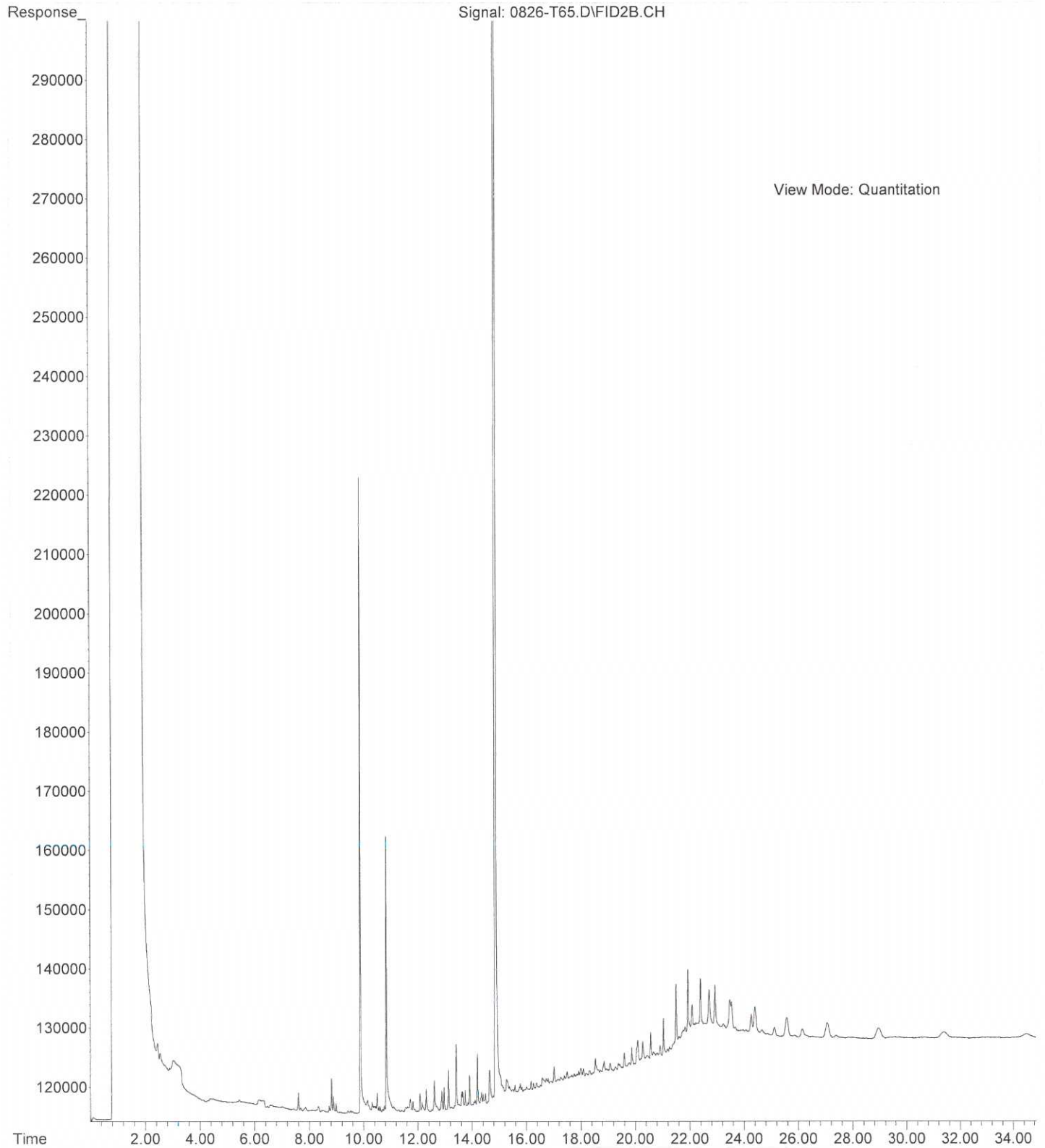
Reviewed/Date: _____

Chromatograms with final report

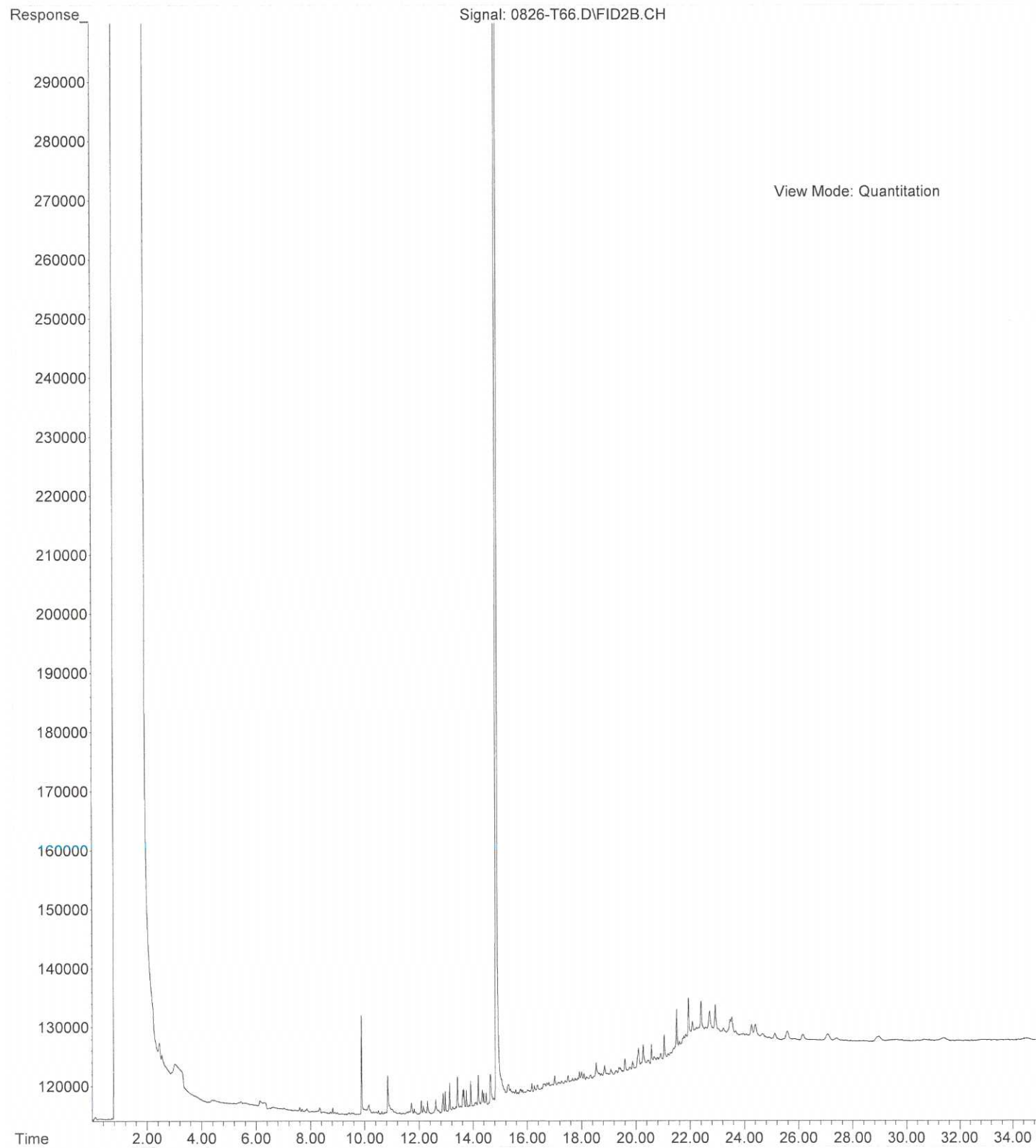
File :X:\DIESELS\TERI\DATA\T150820.SEC\0803-T70.D
Operator : ZT
Acquired : 21 Aug 2015 5:06 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-201-01
Misc Info :
Vial Number: 70



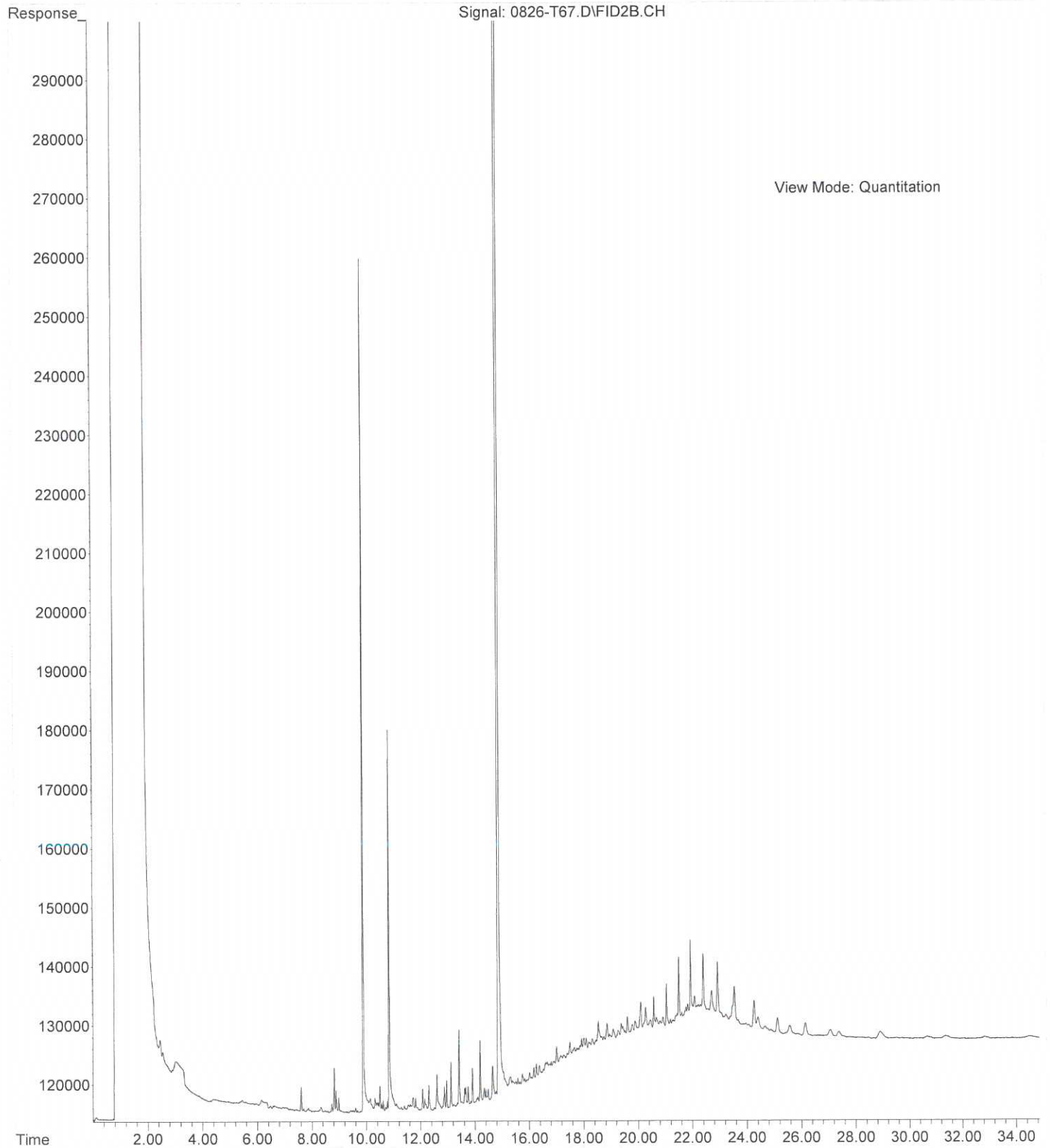
File :X:\DIESELS\TERI\DATA\T150826.SEC\0826-T65.D
Operator : ZT
Acquired : 26 Aug 2015 21:47 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-201-02
Misc Info :
Vial Number: 65



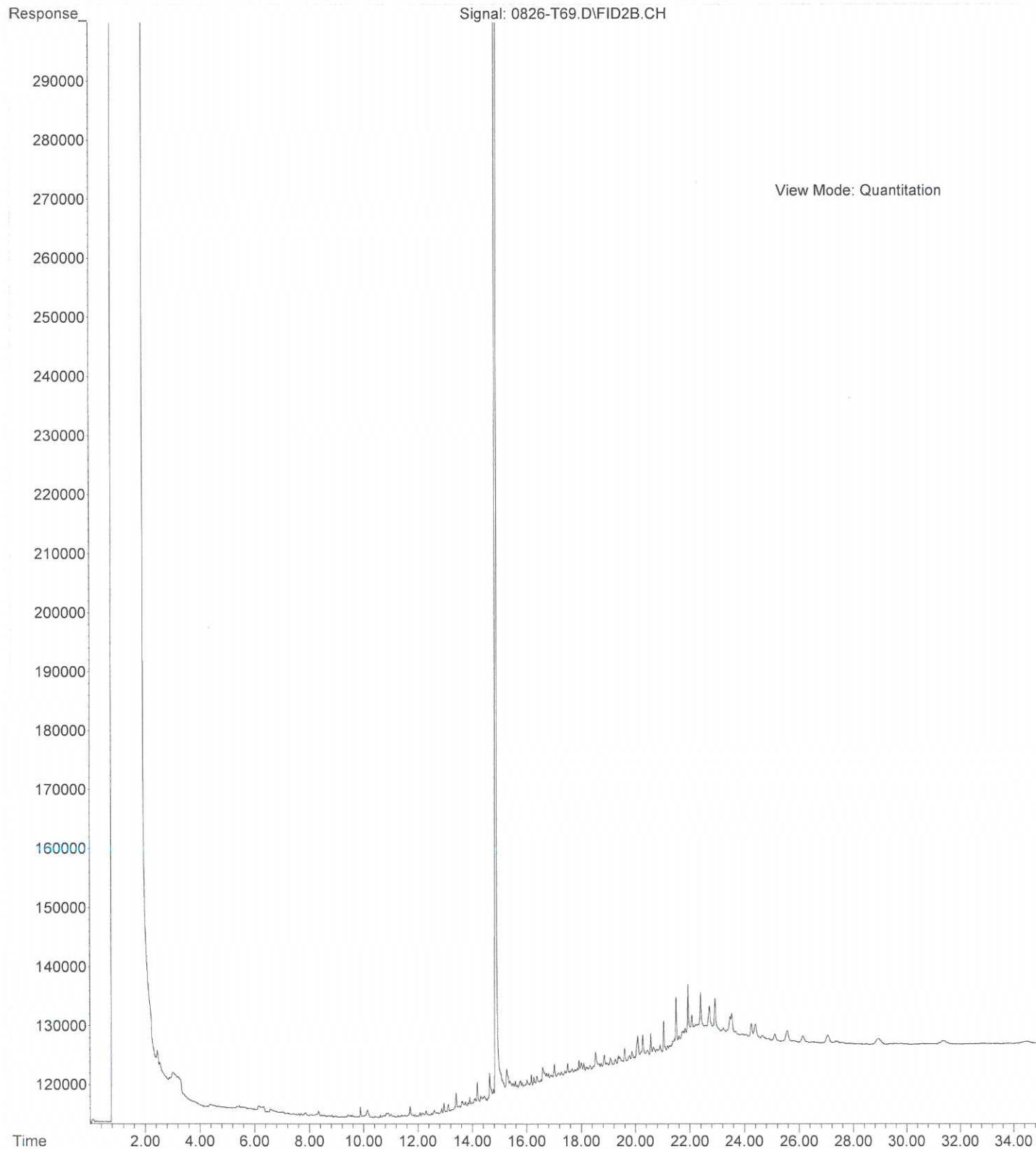
File :X:\DIESELS\TERI\DATA\T150826.SEC\0826-T66.D
Operator : ZT
Acquired : 26 Aug 2015 22:30 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-201-03
Misc Info :
Vial Number: 66



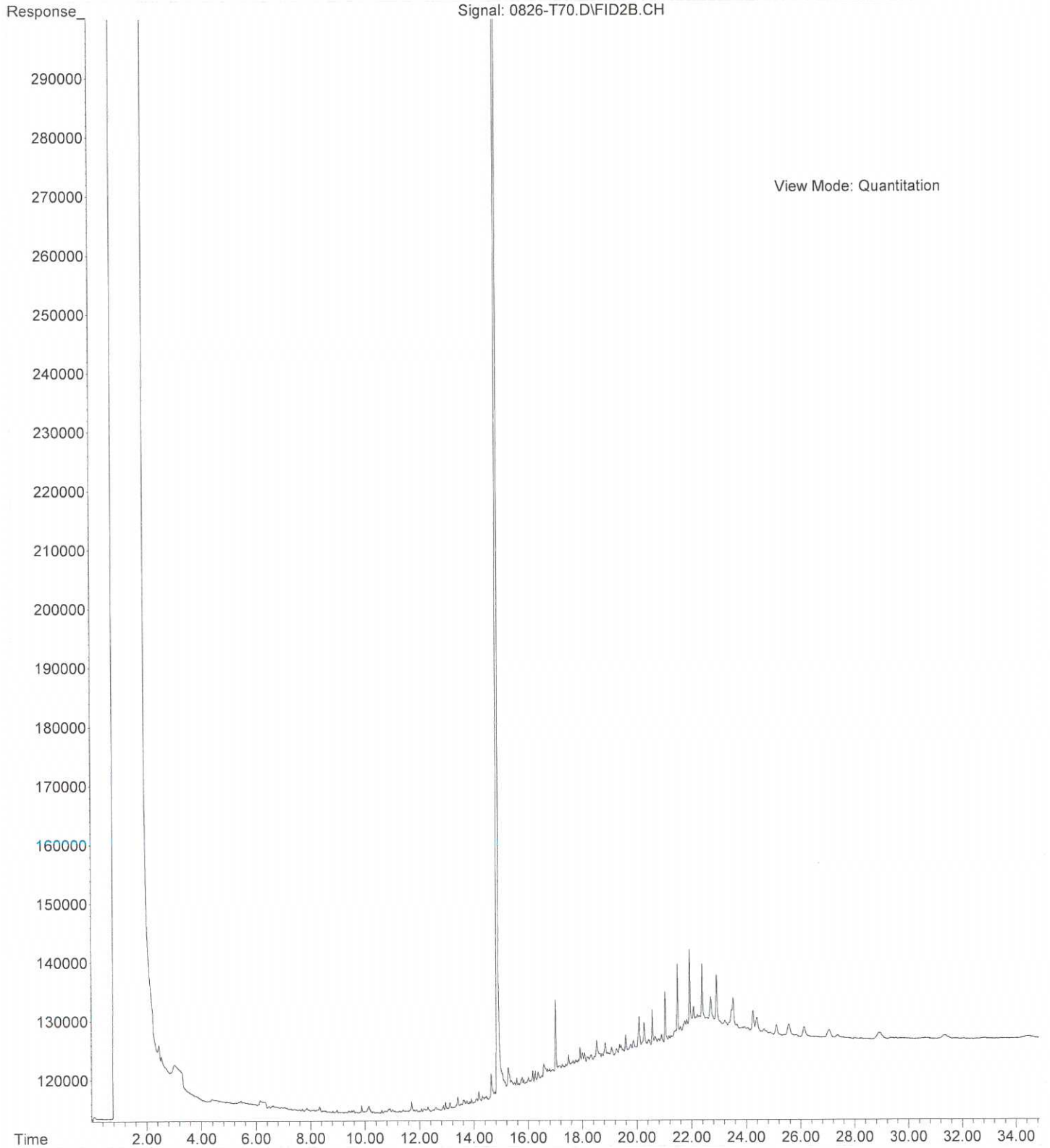
File :X:\DIESELS\TERI\DATA\T150826.SEC\0826-T67.D
Operator : ZT
Acquired : 26 Aug 2015 23:14 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-201-04
Misc Info :
Vial Number: 67



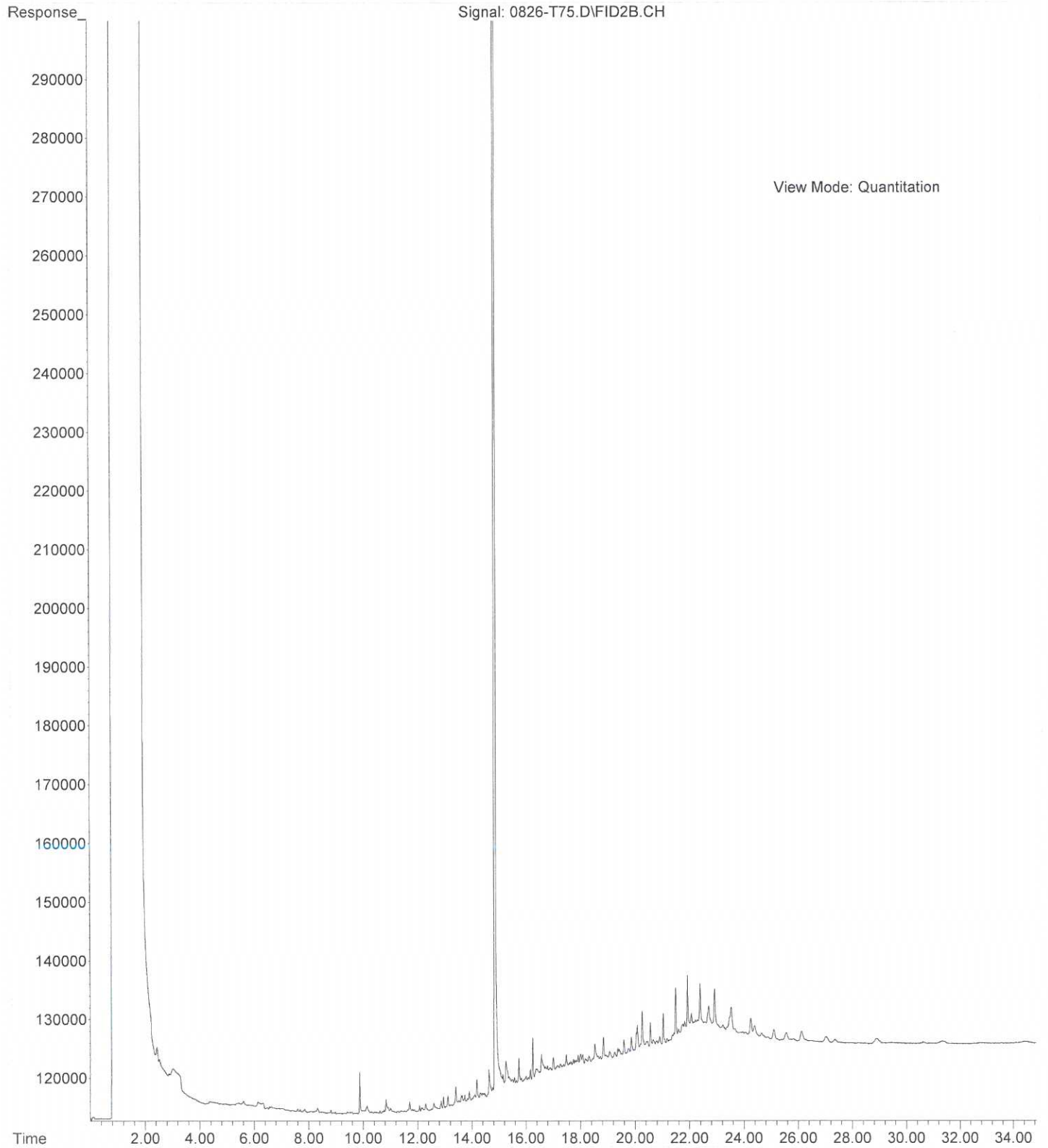
File :X:\DIESELS\TERI\DATA\T150826.SEC\0826-T69.D
Operator : ZT
Acquired : 27 Aug 2015 0:40 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-201-05
Misc Info :
Vial Number: 69



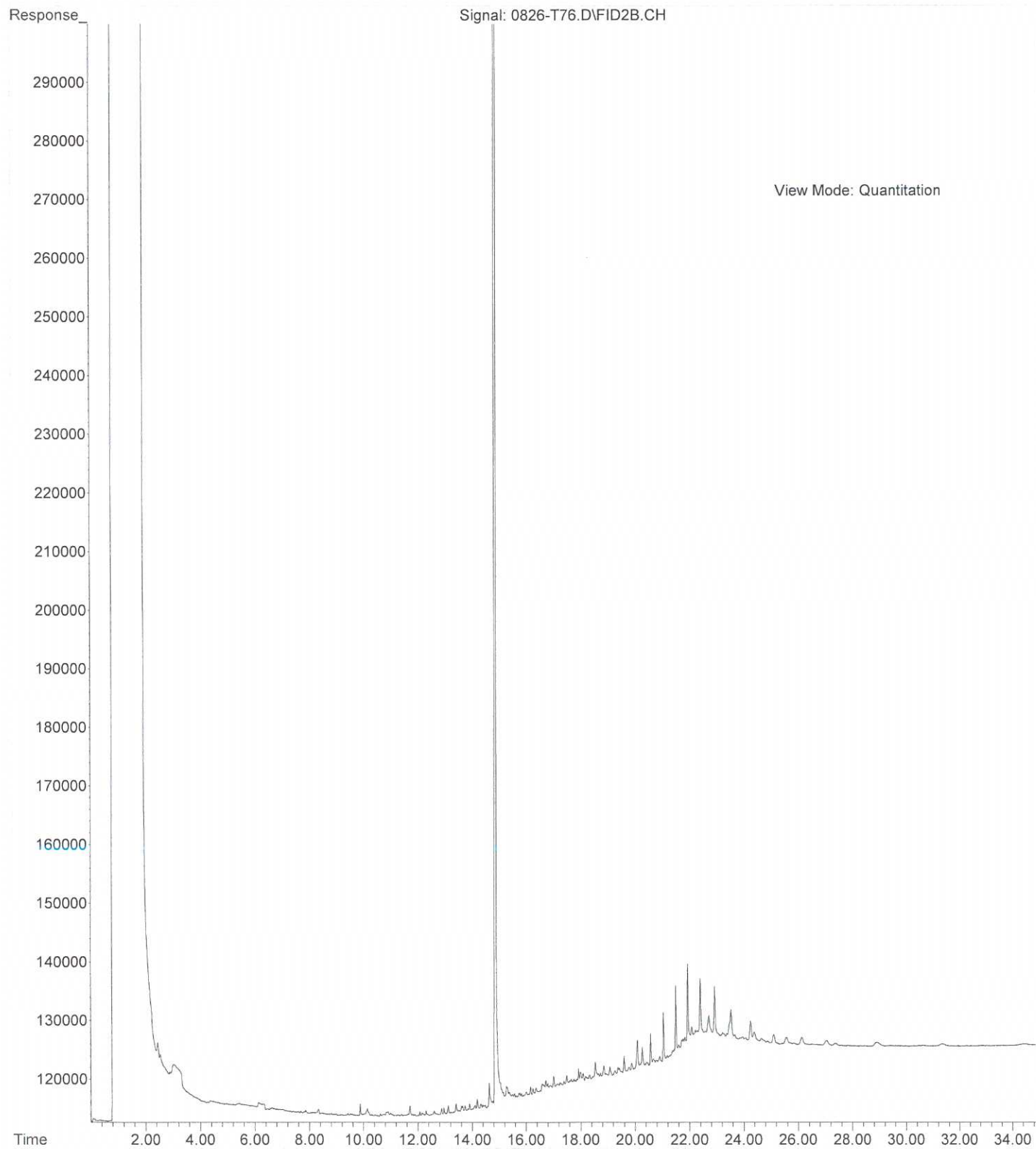
File :X:\DIESELS\TERI\DATA\T150826.SEC\0826-T70.D
Operator : ZT
Acquired : 27 Aug 2015 1:24 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-201-06
Misc Info :
Vial Number: 70



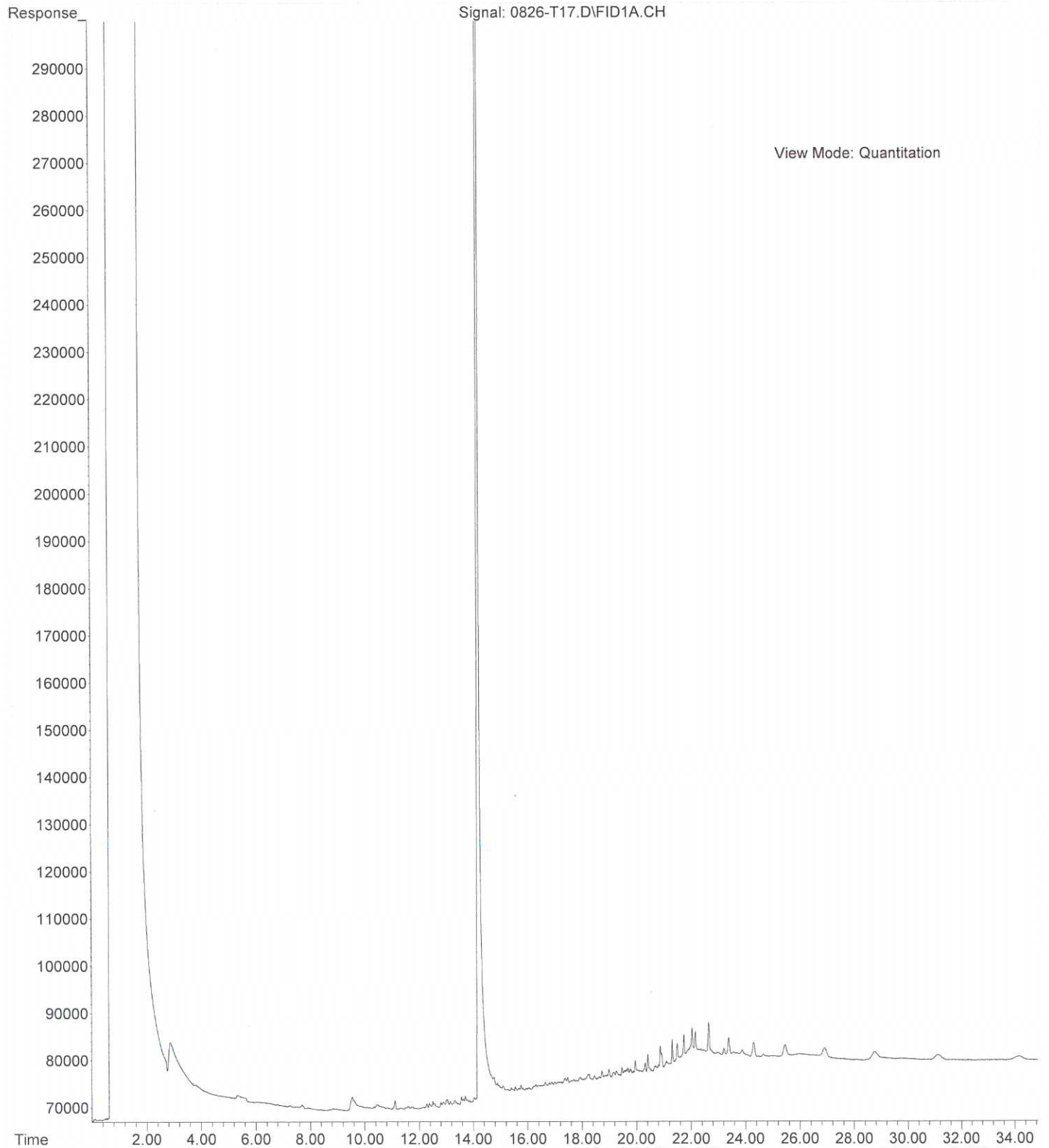
File :X:\DIESELS\TERI\DATA\T150826.SEC\0826-T75.D
Operator : ZT
Acquired : 27 Aug 2015 4:59 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-201-07
Misc Info :
Vial Number: 75



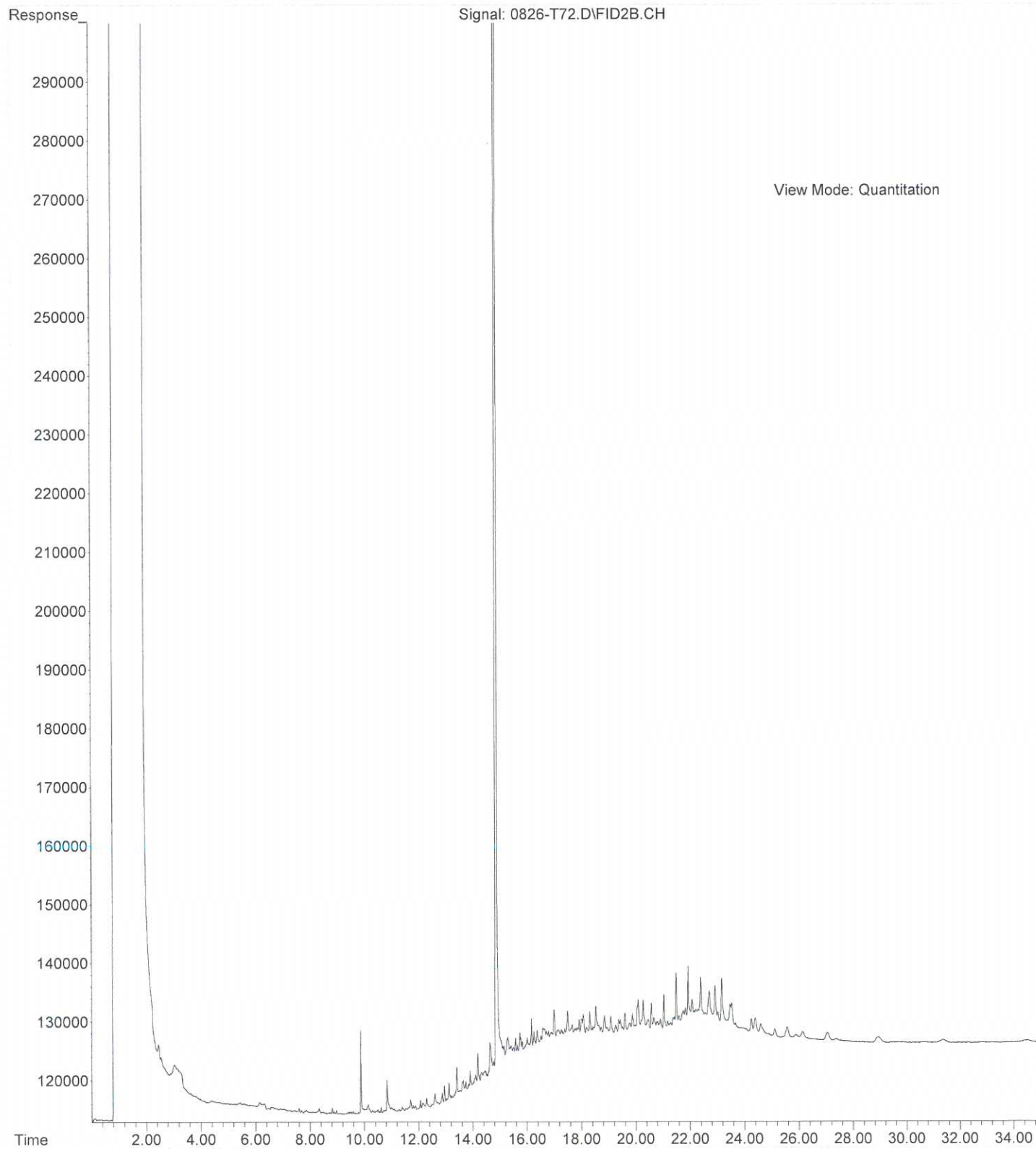
File :X:\DIESELS\TERI\DATA\T150826.SEC\0826-T76.D
Operator : ZT
Acquired : 27 Aug 2015 5:42 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-201-08
Misc Info :
Vial Number: 76



File :X:\DIESELS\TERI\DATA\T150826\0826-T17.D
Operator : ZT
Acquired : 26 Aug 2015 23:14 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-201-09
Misc Info :
Vial Number: 17



File :X:\DIESELS\TERI\DATA\T150826.SEC\0826-T72.D
Operator : ZT
Acquired : 27 Aug 2015 2:50 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-201-10
Misc Info :
Vial Number: 72





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 27, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1508-217

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on August 21, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 27, 2015
Samples Submitted: August 21, 2015
Laboratory Reference: 1508-217
Project: 21138-001-03

Case Narrative

Samples were collected on August 20, 2015 and received by the laboratory on August 21, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 27, 2015
Samples Submitted: August 21, 2015
Laboratory Reference: 1508-217
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MASSEX-11-15.0	08-217-01	Soil	8-20-15	8-21-15	

Date of Report: August 27, 2015
 Samples Submitted: August 21, 2015
 Laboratory Reference: 1508-217
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MASSEX-11-15.0					
Laboratory ID:	08-217-01					
Diesel Range Organics	ND	29	NWTPH-Dx	8-25-15	8-25-15	
Lube Oil Range Organics	ND	57	NWTPH-Dx	8-25-15	8-25-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>100</i>	<i>50-150</i>				

Date of Report: August 27, 2015
 Samples Submitted: August 21, 2015
 Laboratory Reference: 1508-217
 Project: 21138-001-03

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MASSEX-11-15.0					
Laboratory ID:	08-217-01					
Benzo[a]anthracene	ND	0.0076	EPA 8270D/SIM	8-24-15	8-25-15	
Chrysene	ND	0.0076	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[b]fluoranthene	ND	0.0076	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo(j,k)fluoranthene	ND	0.0076	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[a]pyrene	ND	0.0076	EPA 8270D/SIM	8-24-15	8-25-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0076	EPA 8270D/SIM	8-24-15	8-25-15	
Dibenz[a,h]anthracene	ND	0.0076	EPA 8270D/SIM	8-24-15	8-25-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>64</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>66</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>74</i>	<i>31 - 116</i>				

Date of Report: August 27, 2015
 Samples Submitted: August 21, 2015
 Laboratory Reference: 1508-217
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0825S1					
Diesel Range Organics	ND	25	NWTPH-Dx	8-25-15	8-25-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-25-15	8-25-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>116</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-230-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				<i>88</i>	<i>94</i>	<i>50-150</i>		

Date of Report: August 27, 2015
 Samples Submitted: August 21, 2015
 Laboratory Reference: 1508-217
 Project: 21138-001-03

**cPAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0824S1					
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-24-15	8-25-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-24-15	8-25-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-24-15	8-25-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-24-15	8-25-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-24-15	8-25-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>80</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>86</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>94</i>	<i>31 - 116</i>				

Date of Report: August 27, 2015
 Samples Submitted: August 21, 2015
 Laboratory Reference: 1508-217
 Project: 21138-001-03

**cPAHs EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
					Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	08-201-02										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	0.0625	0.0608	0.0833	0.0833	ND	75	73	44 - 107	3		29
Acenaphthylene	0.0667	0.0662	0.0833	0.0833	ND	80	79	44 - 121	1		27
Acenaphthene	0.0666	0.0659	0.0833	0.0833	ND	80	79	47 - 109	1		26
Fluorene	0.0710	0.0686	0.0833	0.0833	ND	85	82	49 - 115	3		28
Phenanthrene	0.0645	0.0630	0.0833	0.0833	ND	77	76	45 - 114	2		26
Anthracene	0.104	0.102	0.0833	0.0833	ND	125	122	43 - 140	2		27
Fluoranthene	0.0642	0.0627	0.0833	0.0833	ND	77	75	44 - 126	2		27
Pyrene	0.0684	0.0663	0.0833	0.0833	ND	82	80	43 - 125	3		27
Benzo[a]anthracene	0.0810	0.0787	0.0833	0.0833	ND	97	94	42 - 134	3		27
Chrysene	0.0609	0.0596	0.0833	0.0833	ND	73	72	45 - 114	2		27
Benzo[b]fluoranthene	0.0721	0.0694	0.0833	0.0833	ND	87	83	38 - 131	4		33
Benzo(j,k)fluoranthene	0.0647	0.0636	0.0833	0.0833	ND	78	76	44 - 114	2		34
Benzo[a]pyrene	0.0735	0.0721	0.0833	0.0833	ND	88	87	40 - 136	2		29
Indeno(1,2,3-c,d)pyrene	0.0708	0.0709	0.0833	0.0833	ND	85	85	45 - 126	0		30
Dibenz[a,h]anthracene	0.0667	0.0651	0.0833	0.0833	ND	80	78	46 - 121	2		28
Benzo[g,h,i]perylene	0.0680	0.0664	0.0833	0.0833	ND	82	80	43 - 120	2		31
<i>Surrogate:</i>											
<i>2-Fluorobiphenyl</i>						75	75	32 - 114			
<i>Pyrene-d10</i>						76	74	33 - 121			
<i>Terphenyl-d14</i>						87	85	31 - 116			

Date of Report: August 27, 2015
Samples Submitted: August 21, 2015
Laboratory Reference: 1508-217
Project: 21138-001-03

% MOISTURE

Date Analyzed: 8-24-15

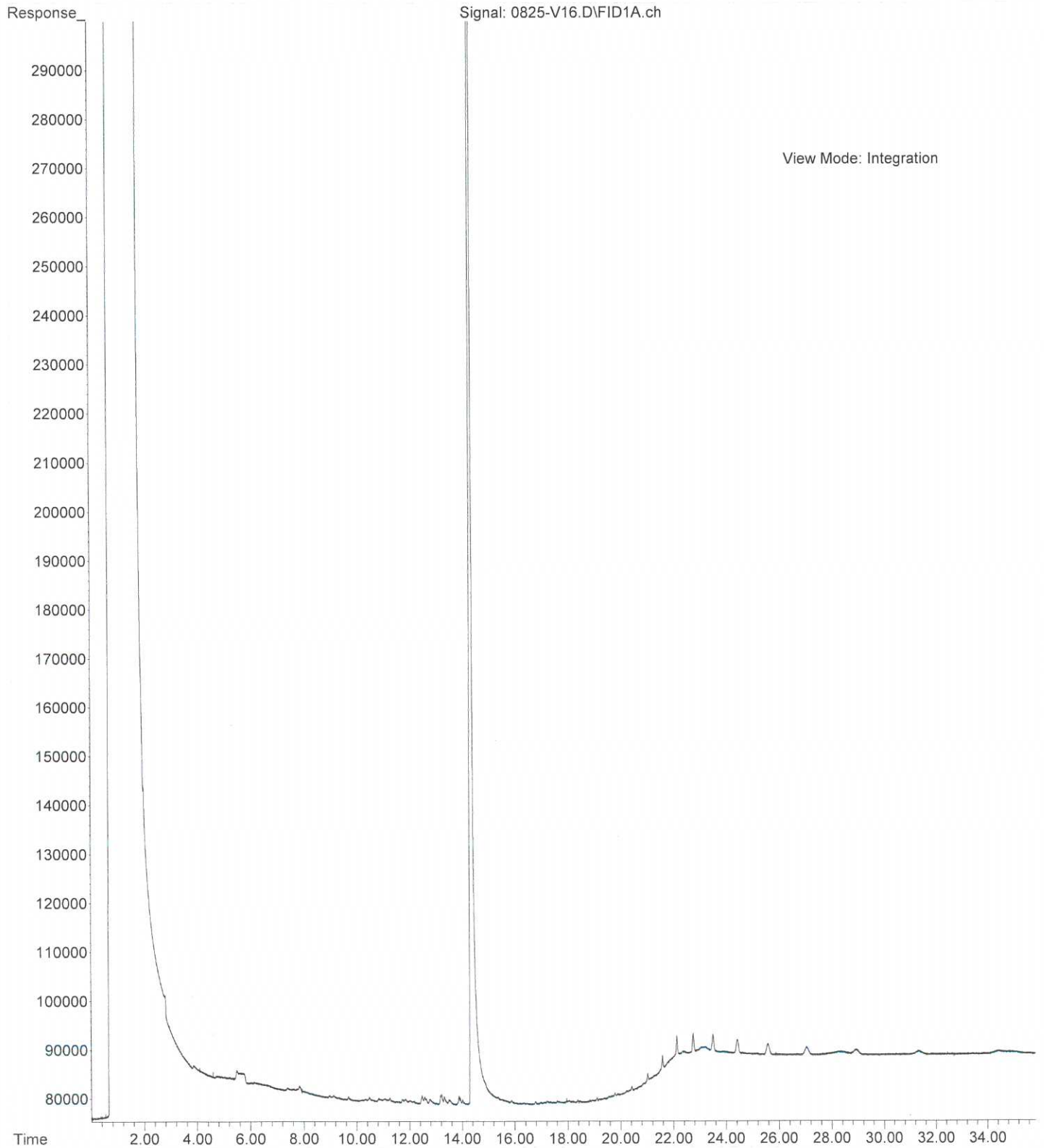
Client ID	Lab ID	% Moisture
MASSEX-11-15.0	08-217-01	12



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

File :X:\DIESELS\VIGO\DATA\V150825\0825-V16.D
Operator :
Acquired : 25 Aug 2015 21:33 using AcqMethod V150507F.M
Instrument : Vigo
Sample Name: 08-217-01
Misc Info :
Vial Number: 16





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 17, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-0
Laboratory Reference No. 1506-134

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on June 12, 2015.

Please note that this is a *revised* report, and replaces the original due to revisions of the sample identifications.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: June 17, 2015
Samples Submitted: June 12, 2015
Laboratory Reference: 1506-134
Project: 21138-001-0

Case Narrative

Samples were collected on June 11, 2015 and received by the laboratory on June 12, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: June 17, 2015
Samples Submitted: June 12, 2015
Laboratory Reference: 1506-134
Project: 21138-001-0

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UST3-N-3.0	06-134-01	Soil	6-11-15	6-12-15	
UST3-S-3.0	06-134-02	Soil	6-11-15	6-12-15	
UST3-B-7.0	06-134-03	Soil	6-11-15	6-12-15	
UST3-FL-2.0	06-134-04	Soil	6-11-15	6-12-15	

Date of Report: June 17, 2015
 Samples Submitted: June 12, 2015
 Laboratory Reference: 1506-134
 Project: 21138-001-0

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST3-B-7.0					
Laboratory ID:	06-134-03					
Diesel Fuel #2	2300	29	NWTPH-Dx	6-12-15	6-12-15	
Lube Oil	1400	58	NWTPH-Dx	6-12-15	6-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				

Date of Report: June 17, 2015
 Samples Submitted: June 12, 2015
 Laboratory Reference: 1506-134
 Project: 21138-001-0

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST3-N-3.0					
Laboratory ID:	06-134-01					
Diesel Range Organics	ND	28	NWTPH-Dx	6-12-15	6-12-15	
Lube Oil Range Organics	ND	56	NWTPH-Dx	6-12-15	6-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				
Client ID:	UST3-S-3.0					
Laboratory ID:	06-134-02					
Diesel Range Organics	ND	28	NWTPH-Dx	6-12-15	6-12-15	
Lube Oil Range Organics	ND	57	NWTPH-Dx	6-12-15	6-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				
Client ID:	UST3-FL-2.0					
Laboratory ID:	06-134-04					
Diesel Range Organics	ND	28	NWTPH-Dx	6-12-15	6-12-15	
Lube Oil Range Organics	ND	56	NWTPH-Dx	6-12-15	6-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	87	50-150				

Date of Report: June 17, 2015
 Samples Submitted: June 12, 2015
 Laboratory Reference: 1506-134
 Project: 21138-001-0

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0612S2					
Diesel Range Organics	ND	25	NWTPH-Dx	6-12-15	6-12-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	6-12-15	6-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>101</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-130-26							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				79	74	50-150		

Date of Report: June 17, 2015
 Samples Submitted: June 12, 2015
 Laboratory Reference: 1506-134
 Project: 21138-001-0

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0612S3					
Diesel Range Organics	ND	25	NWTPH-Dx	6-12-15	6-12-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	6-12-15	6-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-124-01							
	ORIG	DUP						
Diesel Fuel #2	5600	5390	NA	NA	NA	NA	4	NA
Lube Oil	1520	1490	NA	NA	NA	NA	2	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				92	90	50-150		

Date of Report: June 17, 2015
Samples Submitted: June 12, 2015
Laboratory Reference: 1506-134
Project: 21138-001-0

% MOISTURE

Date Analyzed: 6-12&16-15

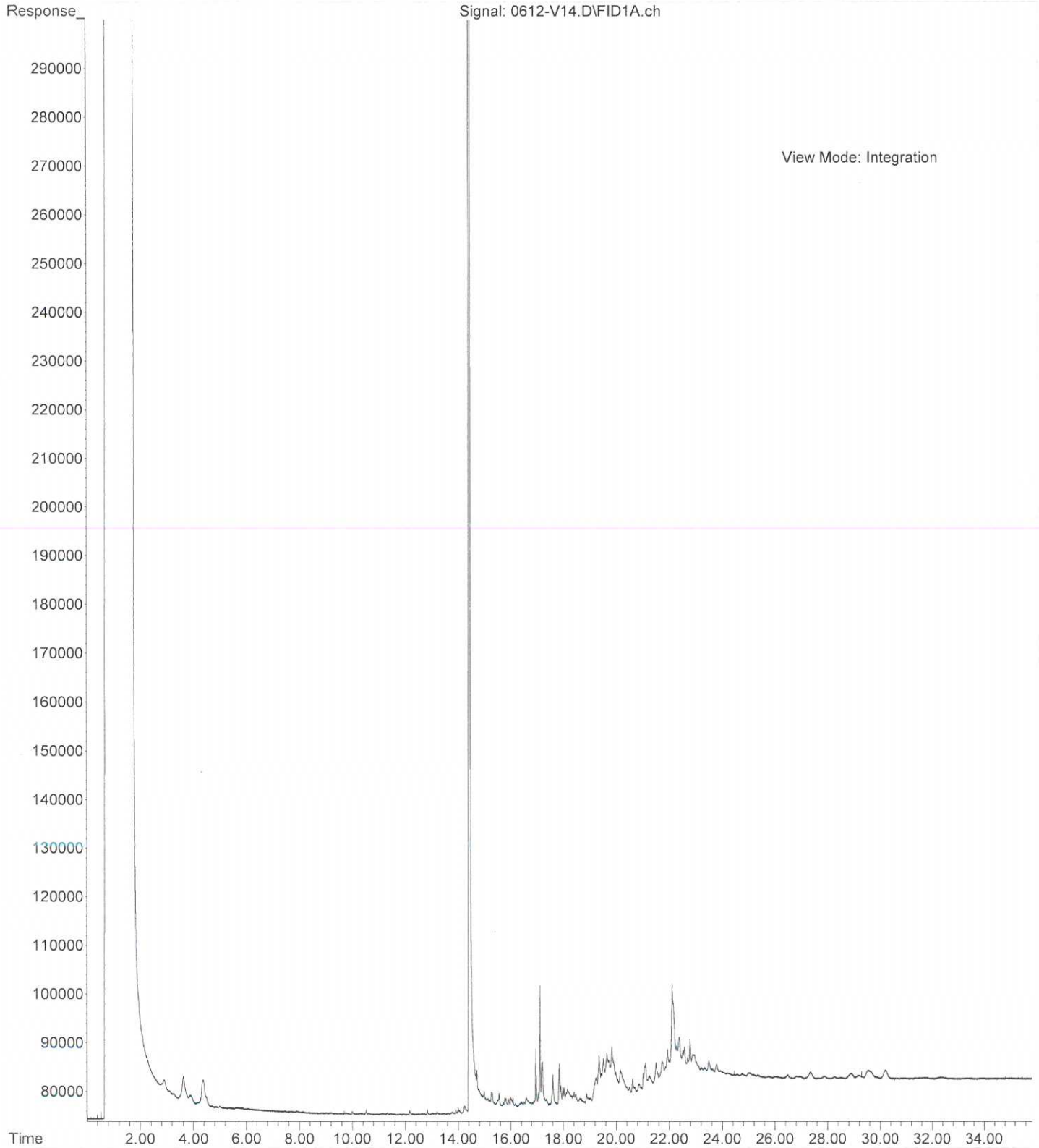
Client ID	Lab ID	% Moisture
UST3-N-3.0	06-134-01	11
UST3-S-3.0	06-134-02	12
UST3-B-7.0	06-134-03	14
UST3-FL-2.0	06-134-04	10



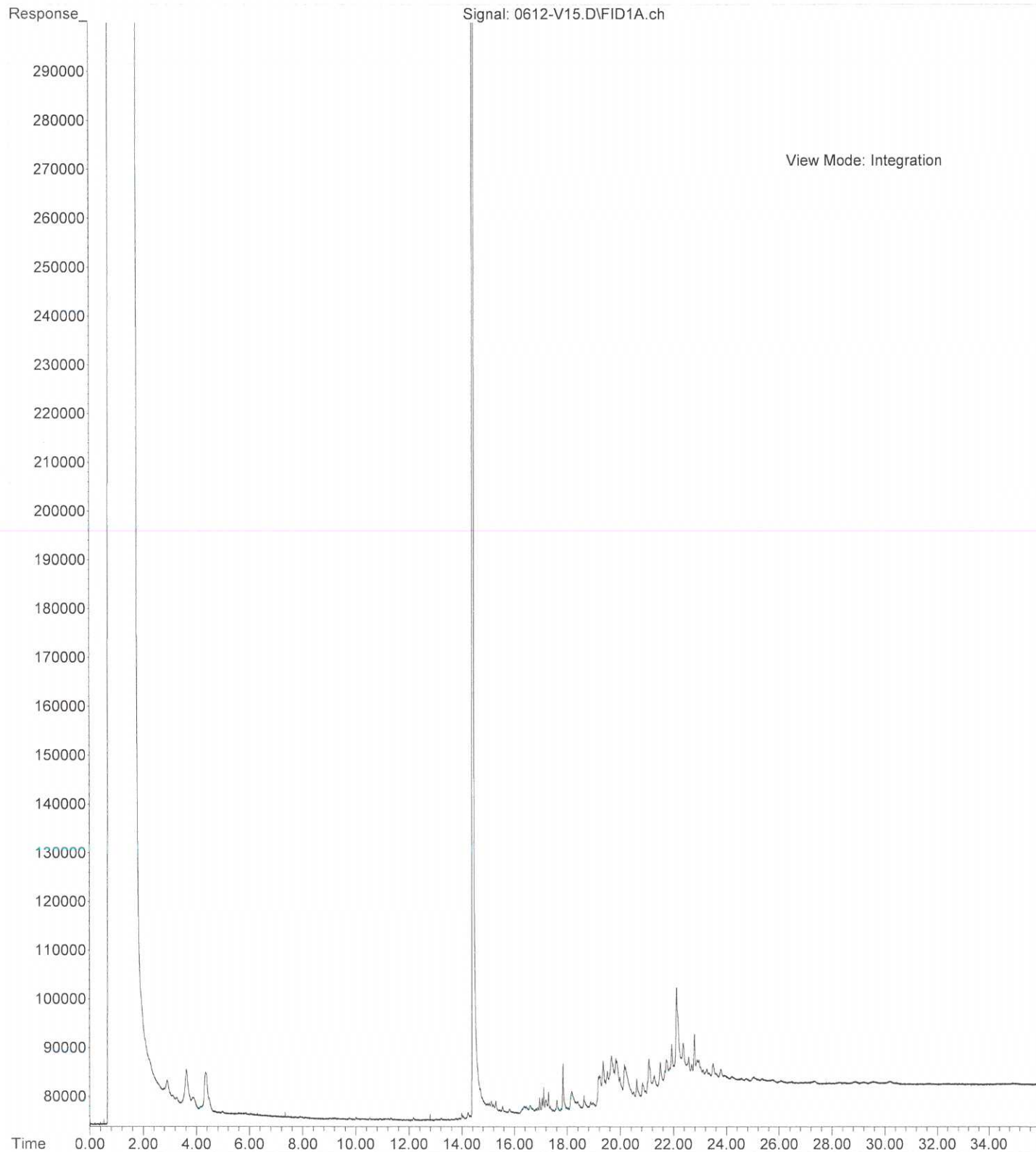
Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

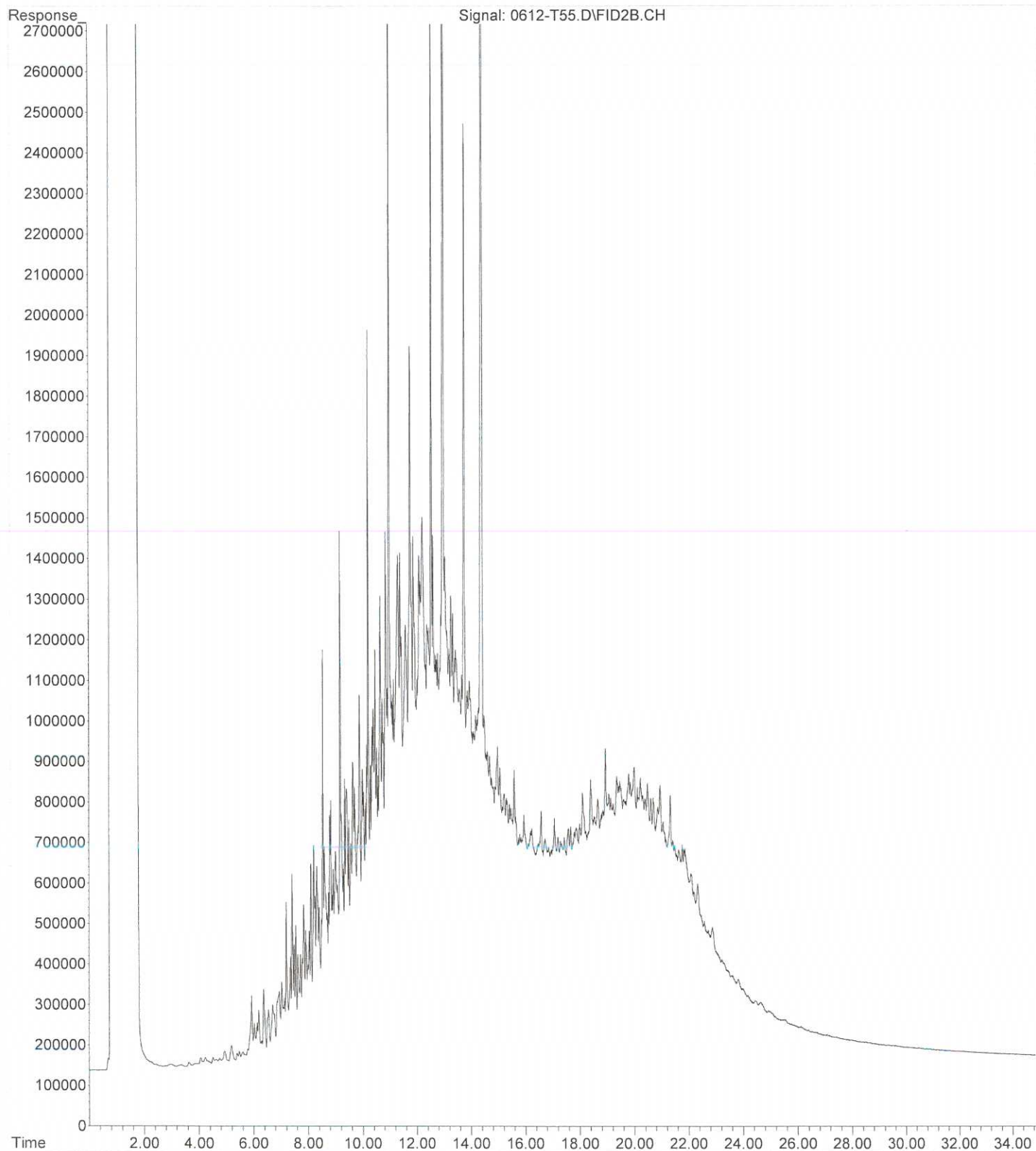
File :X:\DIESELS\VIGO\DATA\V150612\0612-V14.D
Operator :
Acquired : 12 Jun 2015 19:05 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 06-134-01
Misc Info :
Vial Number: 14



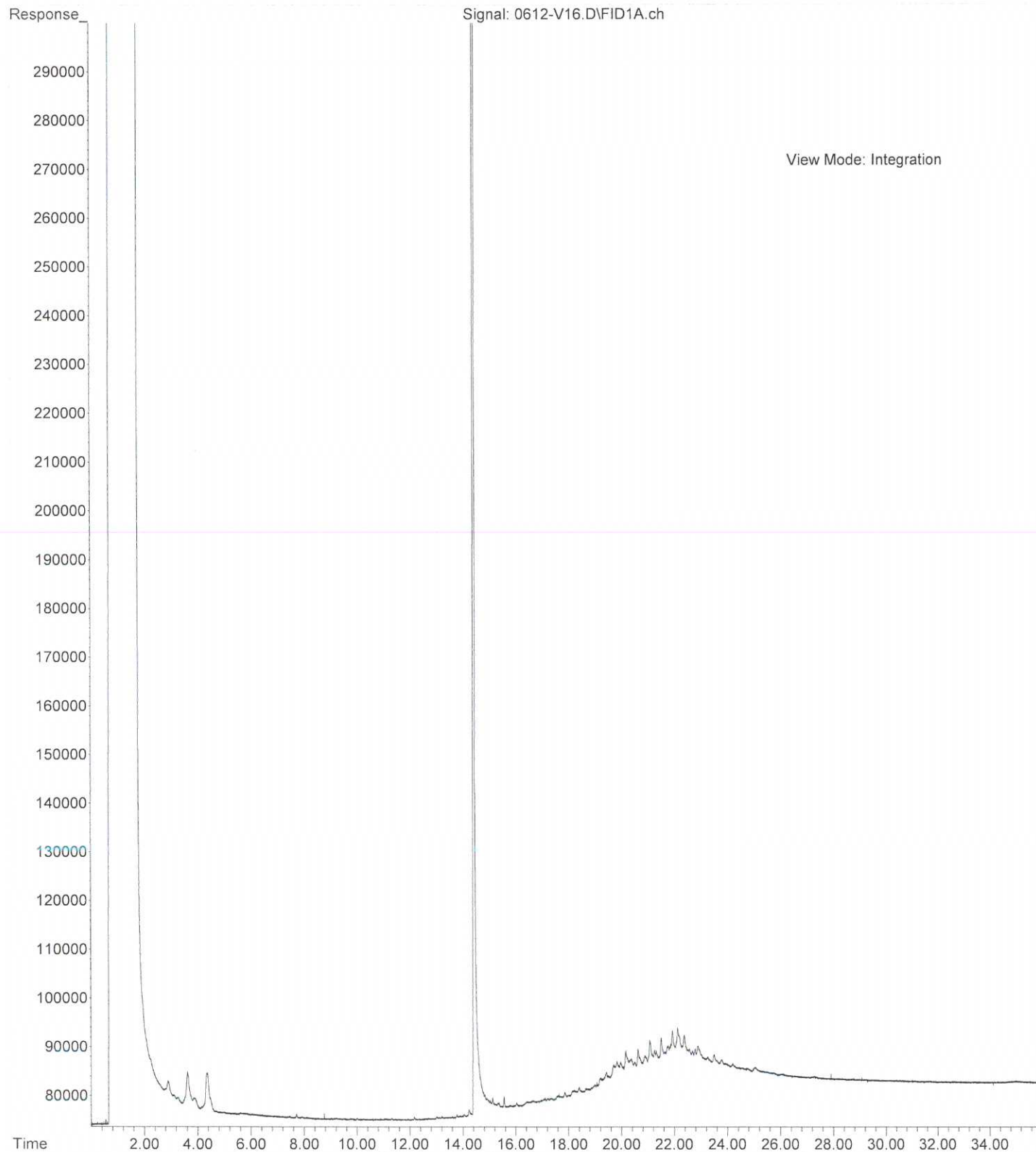
File :X:\DIESELS\VIGO\DATA\V150612\0612-V15.D
Operator :
Acquired : 12 Jun 2015 19:47 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 06-134-02
Misc Info :
Vial Number: 15



File :C:\msdchem\1\DATA\T150612.SEC\0612-T55.D
Operator : ZT
Acquired : 12 Jun 2015 12:57 using AcqMethod T150310F.M
Instrument : Teri
Sample Name: 06-134-03
Misc Info :
Vial Number: 55



File :X:\DIESELS\VIGO\DATA\V150612\0612-V16.D
Operator :
Acquired : 12 Jun 2015 20:28 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 06-134-04
Misc Info :
Vial Number: 16





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August 24, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1508-198

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on August 19, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: August 24, 2015
Samples Submitted: August 19, 2015
Laboratory Reference: 1508-198
Project: 21138-001-03

Case Narrative

Samples were collected on August 3, 2015 and received by the laboratory on August 3, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 24, 2015
Samples Submitted: August 19, 2015
Laboratory Reference: 1508-198
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UST3EX-N-10.0	08-198-01	Soil	8-17-15	8-19-15	
UST3EX-S-10.0	08-198-02	Soil	8-17-15	8-19-15	
UST3EX-E-10.0	08-198-03	Soil	8-17-15	8-19-15	
UST3EX-W-10.0	08-198-04	Soil	8-17-15	8-19-15	
UST3EX-B-15.0	08-198-05	Soil	8-17-15	8-19-15	

Date of Report: August 24, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-198
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UST3EX-N-10.0					
Laboratory ID:	08-198-01					
Diesel Range Organics	ND	31	NWTPH-Dx	8-20-15	8-20-15	
Lube Oil Range Organics	ND	62	NWTPH-Dx	8-20-15	8-20-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	84	50-150				
Client ID:	UST3EX-S-10.0					
Laboratory ID:	08-198-02					
Diesel Range Organics	ND	31	NWTPH-Dx	8-20-15	8-20-15	
Lube Oil Range Organics	ND	61	NWTPH-Dx	8-20-15	8-20-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	77	50-150				
Client ID:	UST3EX-E-10.0					
Laboratory ID:	08-198-03					
Diesel Range Organics	ND	33	NWTPH-Dx	8-20-15	8-20-15	
Lube Oil Range Organics	ND	67	NWTPH-Dx	8-20-15	8-20-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	73	50-150				
Client ID:	UST3EX-W-10.0					
Laboratory ID:	08-198-04					
Diesel Range Organics	ND	32	NWTPH-Dx	8-20-15	8-20-15	
Lube Oil Range Organics	ND	63	NWTPH-Dx	8-20-15	8-20-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	50-150				
Client ID:	UST3EX-B-15.0					
Laboratory ID:	08-198-05					
Diesel Range Organics	ND	31	NWTPH-Dx	8-20-15	8-20-15	
Lube Oil Range Organics	ND	63	NWTPH-Dx	8-20-15	8-20-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	78	50-150				

Date of Report: August 24, 2015
 Samples Submitted: August 19, 2015
 Laboratory Reference: 1508-198
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0820S1					
Diesel Range Organics	ND	25	NWTPH-Dx	8-20-15	8-20-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-20-15	8-20-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	111	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-203-04							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	
Lube Oil	71.9	65.6	NA	NA	NA	9	NA	
<i>Surrogate:</i>								
<i>o-Terphenyl</i>			101	95	50-150			

Date of Report: August 24, 2015
Samples Submitted: August 19, 2015
Laboratory Reference: 1508-198
Project: 21138-001-03

% MOISTURE

Date Analyzed: 8-20-15

Client ID	Lab ID	% Moisture
UST3EX-N-10.0	08-198-01	19
UST3EX-S-10.0	08-198-02	19
UST3EX-E-10.0	08-198-03	25
UST3EX-W-10.0	08-198-04	21
UST3EX-B-15.0	08-198-05	20



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



OnSite Environmental Inc.
 Analytical Laboratory Testing Services
 14649 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Laboratory Number: **08-198**

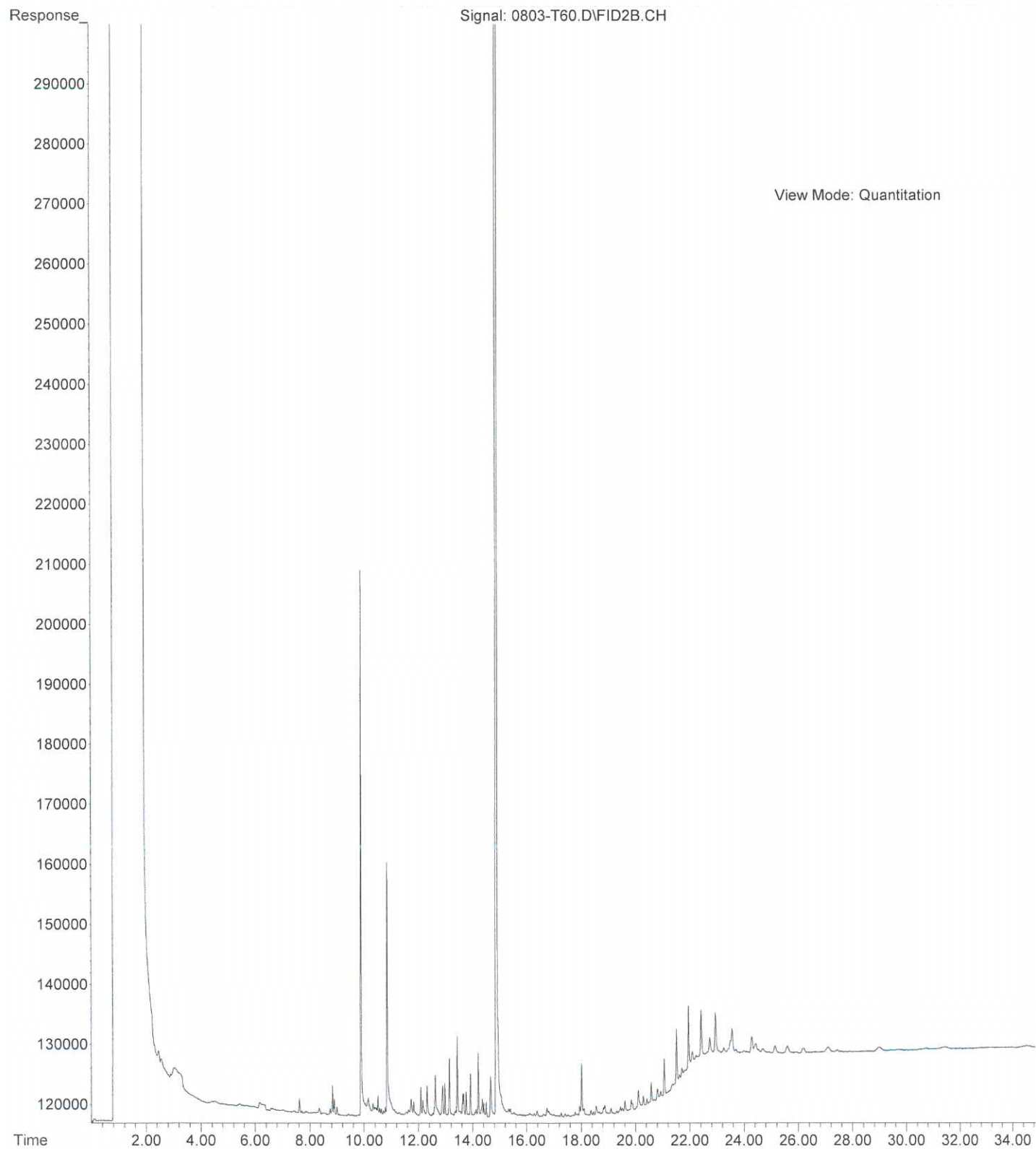
Company: GEODENGINERS
 Project Number: 21138-001-03
 Project Name: 9th & LENORA PROJECT
 Project Manager: FASIH KHAN
 Sampled by: FASIH KHAN

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	UST3EX-X-10.0.0	8/14/15	0930	S
2	UST3EX-5-2-10.0.0		0958	
3	UST3EX-8-3-10.0.0		1130	
4	UST3EX-4-4-10.0.0		1245	
5	UST3EX-8-5-15.0		1350	

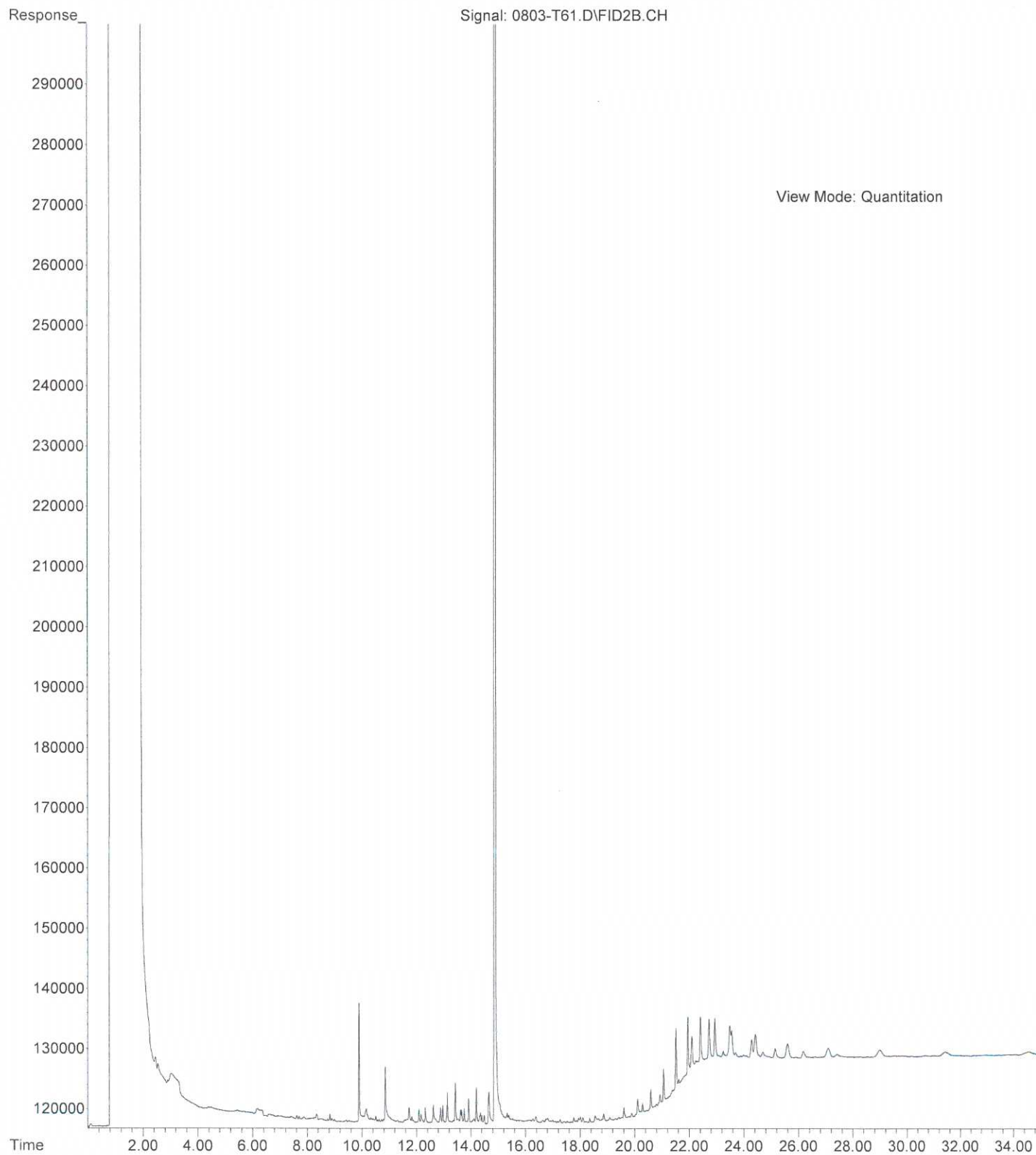
Number of Containers	Laboratory Number: 08-198																
	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
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				<input checked="" type="checkbox"/>													<input checked="" type="checkbox"/>
				<input checked="" type="checkbox"/>													<input checked="" type="checkbox"/>
				<input checked="" type="checkbox"/>													<input checked="" type="checkbox"/>
				<input checked="" type="checkbox"/>													<input checked="" type="checkbox"/>

Signature	Company	Date	Time	Comments/Special Instructions
	GED	8/14/15	1605	
	ORTE	8/14/15	1605	
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Reviewed/Date	Reviewed/Date	Chromatograms with final report <input type="checkbox"/>		

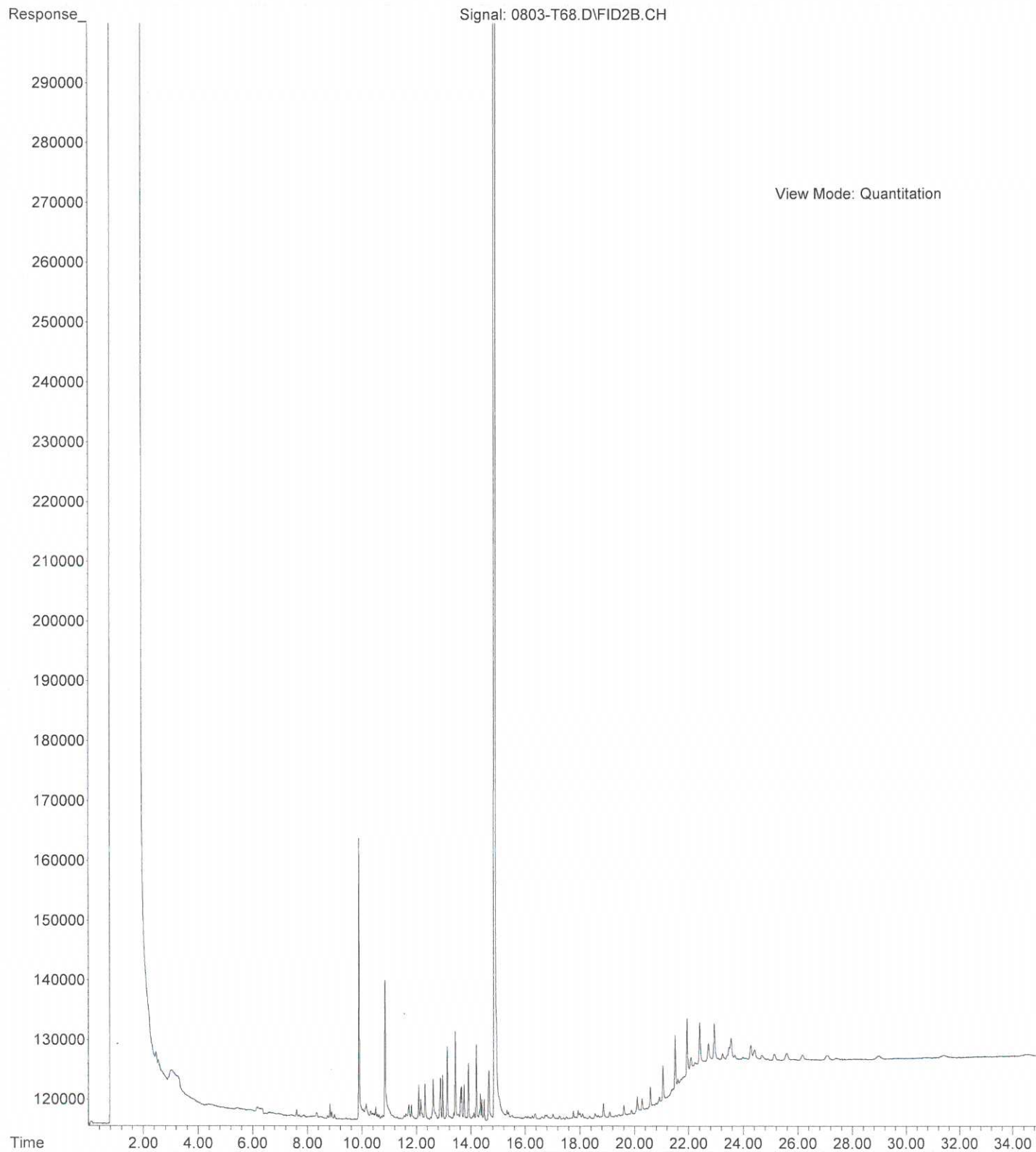
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Acquired : 20 Aug 2015 21:54 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-198-01
Misc Info :
Vial Number: 60



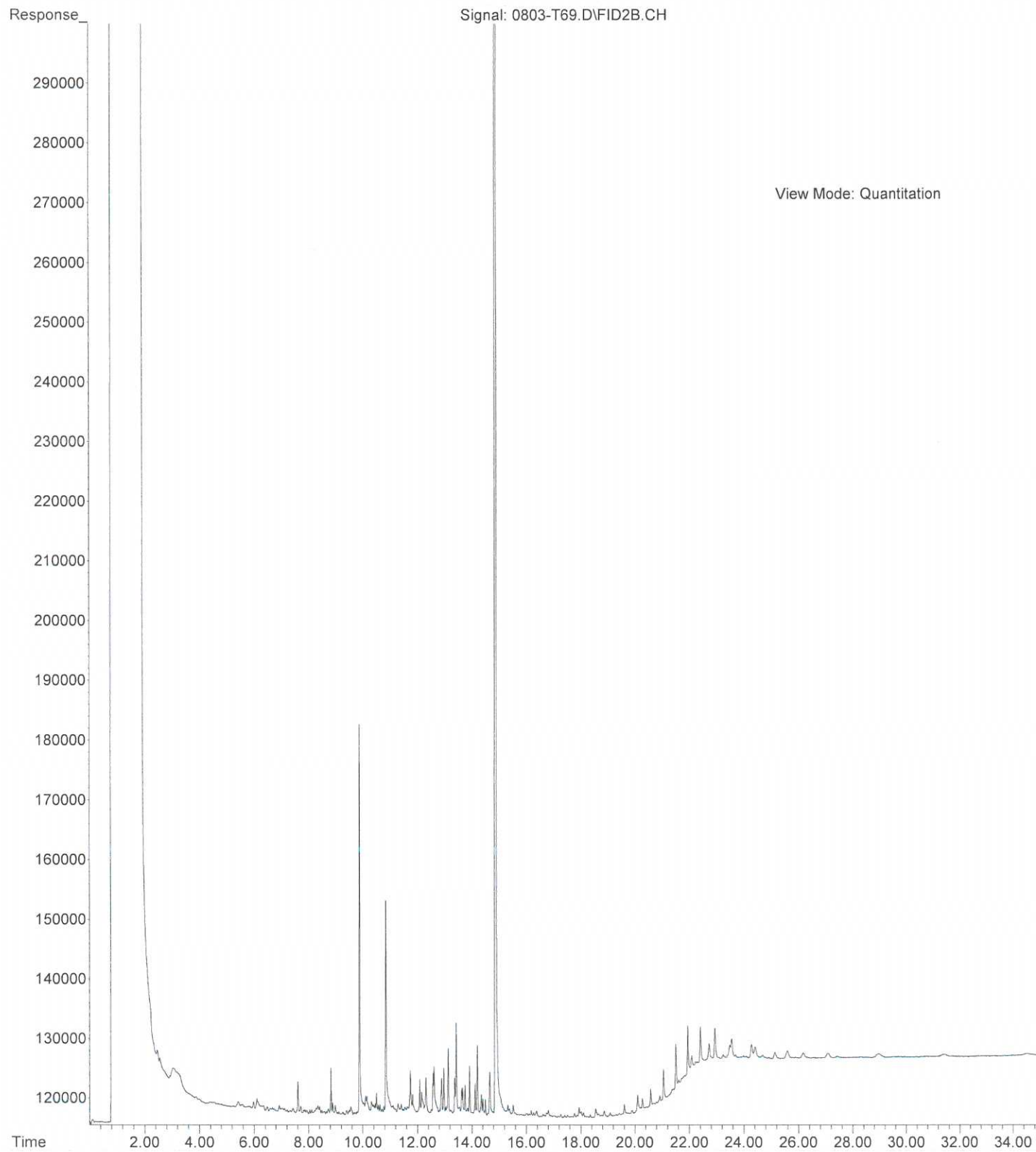
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Operator : ZT
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Instrument : Teri
Sample Name: 08-198-02
Misc Info :
Vial Number: 61



File : X:\DIESELS\TERI\DATA\T150820.SEC\0803-T68.D
Operator : ZT
Acquired : 21 Aug 2015 3:40 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-198-04
Misc Info :
Vial Number: 68



File :X:\DIESELS\TERI\DATA\T150820.SEC\0803-T69.D
Operator : ZT
Acquired : 21 Aug 2015 4:23 using AcqMethod T150713F.M
Instrument : Teri
Sample Name: 08-198-05
Misc Info :
Vial Number: 69





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 13, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1507-037

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on July 7, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: July 13, 2015
Samples Submitted: July 7, 2015
Laboratory Reference: 1507-037
Project: 21138-001-03

Case Narrative

Samples were collected on July 6, 2015 and received by the laboratory on July 7, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: July 13, 2015
Samples Submitted: July 7, 2015
Laboratory Reference: 1507-037
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
DUCT-1-8.0	07-037-01	Soil	7-6-15	7-7-15	
DUCT-2-15.0	07-037-02	Soil	7-6-15	7-7-15	
DUCT-3-20.0	07-037-03	Soil	7-6-15	7-7-15	
EX-1-6.0	07-037-04	Soil	7-6-15	7-7-15	

Date of Report: July 13, 2015
 Samples Submitted: July 7, 2015
 Laboratory Reference: 1507-037
 Project: 21138-001-03

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUCT-1-8.0					
Laboratory ID:	07-037-01					
Benzene	ND	0.020	EPA 8021B	7-9-15	7-9-15	
Toluene	ND	0.053	EPA 8021B	7-9-15	7-9-15	
Ethyl Benzene	ND	0.053	EPA 8021B	7-9-15	7-9-15	
m,p-Xylene	ND	0.053	EPA 8021B	7-9-15	7-9-15	
o-Xylene	ND	0.053	EPA 8021B	7-9-15	7-9-15	
Gasoline	ND	5.3	NWTPH-Gx	7-9-15	7-9-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	98	68-123				
Client ID:	DUCT-2-15.0					
Laboratory ID:	07-037-02					
Benzene	ND	0.020	EPA 8021B	7-9-15	7-9-15	
Toluene	ND	0.063	EPA 8021B	7-9-15	7-9-15	
Ethyl Benzene	ND	0.063	EPA 8021B	7-9-15	7-9-15	
m,p-Xylene	ND	0.063	EPA 8021B	7-9-15	7-9-15	
o-Xylene	ND	0.063	EPA 8021B	7-9-15	7-9-15	
Gasoline	ND	6.3	NWTPH-Gx	7-9-15	7-9-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	96	68-123				
Client ID:	DUCT-3-20.0					
Laboratory ID:	07-037-03					
Benzene	ND	0.020	EPA 8021B	7-9-15	7-9-15	
Toluene	ND	0.065	EPA 8021B	7-9-15	7-9-15	
Ethyl Benzene	ND	0.065	EPA 8021B	7-9-15	7-9-15	
m,p-Xylene	ND	0.065	EPA 8021B	7-9-15	7-9-15	
o-Xylene	ND	0.065	EPA 8021B	7-9-15	7-9-15	
Gasoline	ND	6.5	NWTPH-Gx	7-9-15	7-9-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	97	68-123				

Date of Report: July 13, 2015
 Samples Submitted: July 7, 2015
 Laboratory Reference: 1507-037
 Project: 21138-001-03

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EX-1-6.0					
Laboratory ID:	07-037-04					
Benzene	ND	0.020	EPA 8021B	7-9-15	7-9-15	
Toluene	ND	0.051	EPA 8021B	7-9-15	7-9-15	
Ethyl Benzene	ND	0.051	EPA 8021B	7-9-15	7-9-15	
m,p-Xylene	ND	0.051	EPA 8021B	7-9-15	7-9-15	
o-Xylene	ND	0.051	EPA 8021B	7-9-15	7-9-15	
Gasoline	ND	5.1	NWTPH-Gx	7-9-15	7-9-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	97	68-123				

Date of Report: July 13, 2015
 Samples Submitted: July 7, 2015
 Laboratory Reference: 1507-037
 Project: 21138-001-03

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUCT-1-8.0					
Laboratory ID:	07-037-01					
Diesel Range Organics	ND	27	NWTPH-Dx	7-9-15	7-9-15	
Lube Oil Range Organics	ND	54	NWTPH-Dx	7-9-15	7-9-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	80	50-150				
Client ID:	DUCT-2-15.0					
Laboratory ID:	07-037-02					
Diesel Range Organics	ND	28	NWTPH-Dx	7-9-15	7-9-15	
Lube Oil Range Organics	ND	56	NWTPH-Dx	7-9-15	7-9-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				
Client ID:	DUCT-3-20.0					
Laboratory ID:	07-037-03					
Diesel Range Organics	ND	27	NWTPH-Dx	7-9-15	7-9-15	
Lube Oil Range Organics	ND	53	NWTPH-Dx	7-9-15	7-9-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	84	50-150				

Date of Report: July 13, 2015
 Samples Submitted: July 7, 2015
 Laboratory Reference: 1507-037
 Project: 21138-001-03

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0709S2					
Benzene	ND	0.020	EPA 8021B	7-9-15	7-9-15	
Toluene	ND	0.050	EPA 8021B	7-9-15	7-9-15	
Ethyl Benzene	ND	0.050	EPA 8021B	7-9-15	7-9-15	
m,p-Xylene	ND	0.050	EPA 8021B	7-9-15	7-9-15	
o-Xylene	ND	0.050	EPA 8021B	7-9-15	7-9-15	
Gasoline	ND	5.0	NWTPH-Gx	7-9-15	7-9-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	95	68-123				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	07-037-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				98	93	68-123		

SPIKE BLANKS

Laboratory ID:	SB0709S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.983	1.02	1.00	1.00	98	102	75-117	4	13
Toluene	0.945	0.993	1.00	1.00	95	99	78-118	5	12
Ethyl Benzene	0.946	0.978	1.00	1.00	95	98	78-118	3	12
m,p-Xylene	0.945	0.985	1.00	1.00	95	99	78-121	4	13
o-Xylene	0.945	0.974	1.00	1.00	95	97	77-119	3	13
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					90	94	68-123		

Date of Report: July 13, 2015
 Samples Submitted: July 7, 2015
 Laboratory Reference: 1507-037
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0709S1					
Diesel Range Organics	ND	25	NWTPH-Dx	7-9-15	7-10-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	7-9-15	7-10-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	83	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	07-037-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				80	90	50-150		

Date of Report: July 13, 2015
Samples Submitted: July 7, 2015
Laboratory Reference: 1507-037
Project: 21138-001-03

% MOISTURE

Date Analyzed: 7-9-15

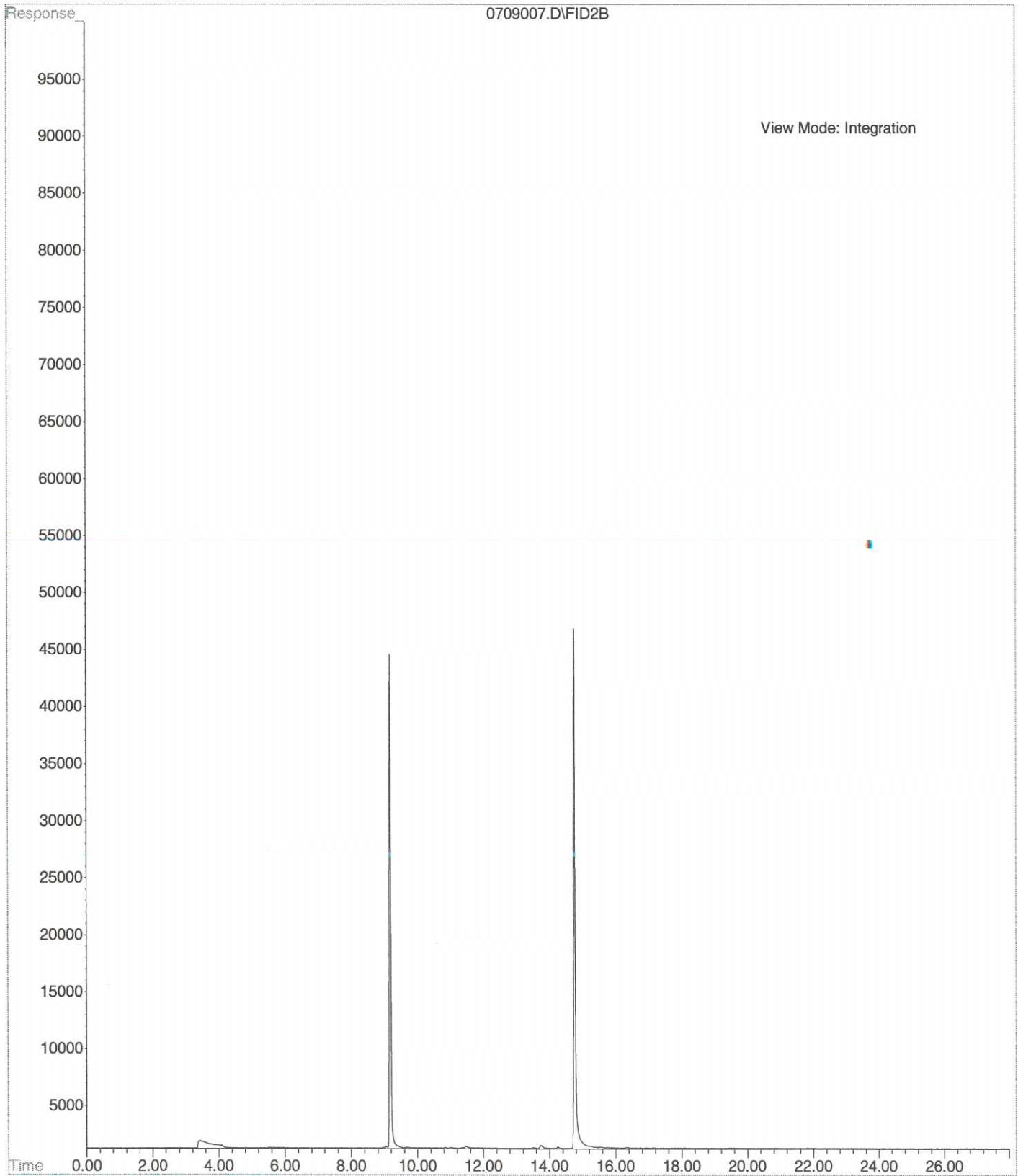
Client ID	Lab ID	% Moisture
DUCT-1-8.0	07-037-01	7
DUCT-2-15.0	07-037-02	10
DUCT-3-20.0	07-037-03	6
EX-1-6.0	07-037-04	4



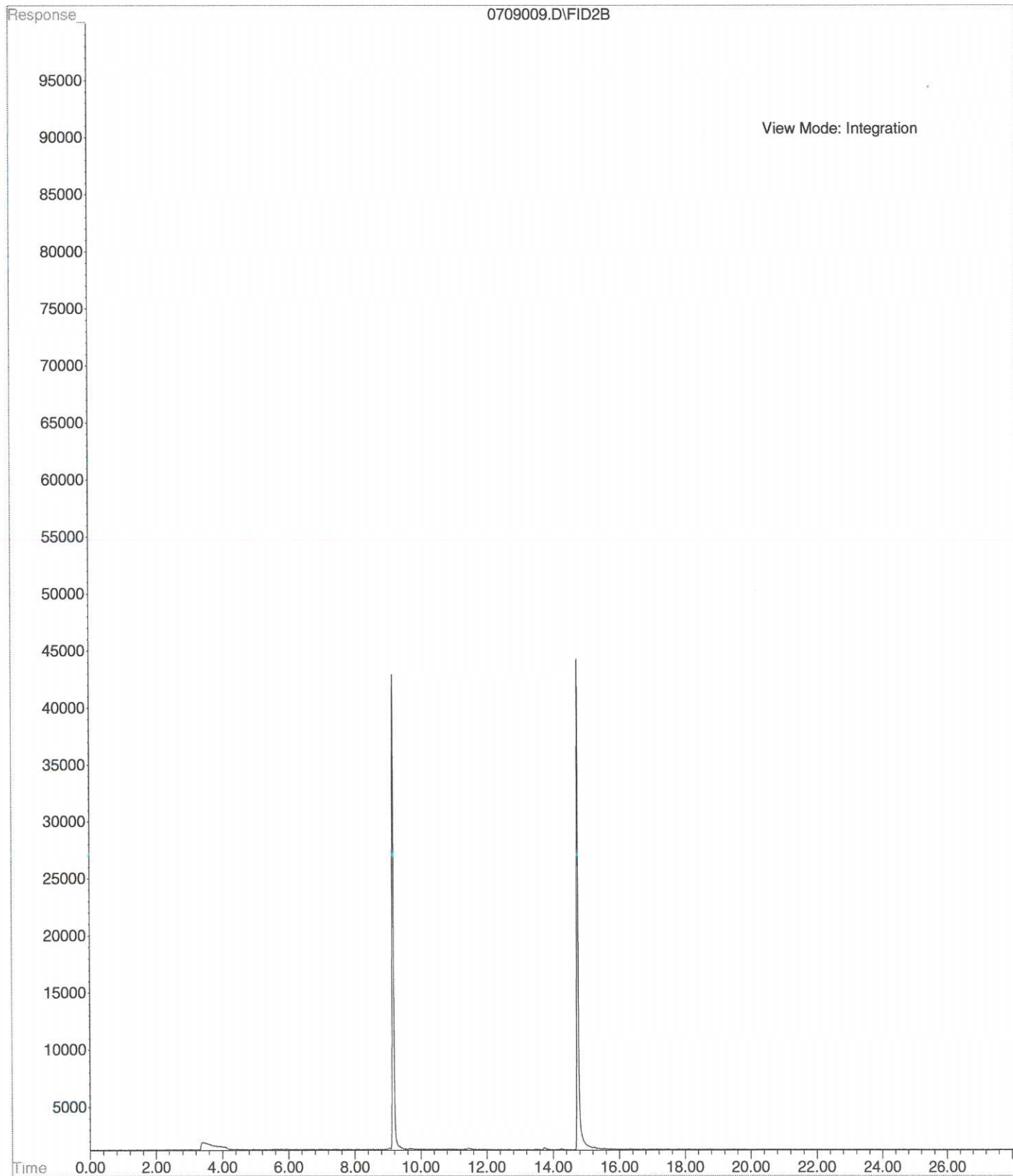
Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

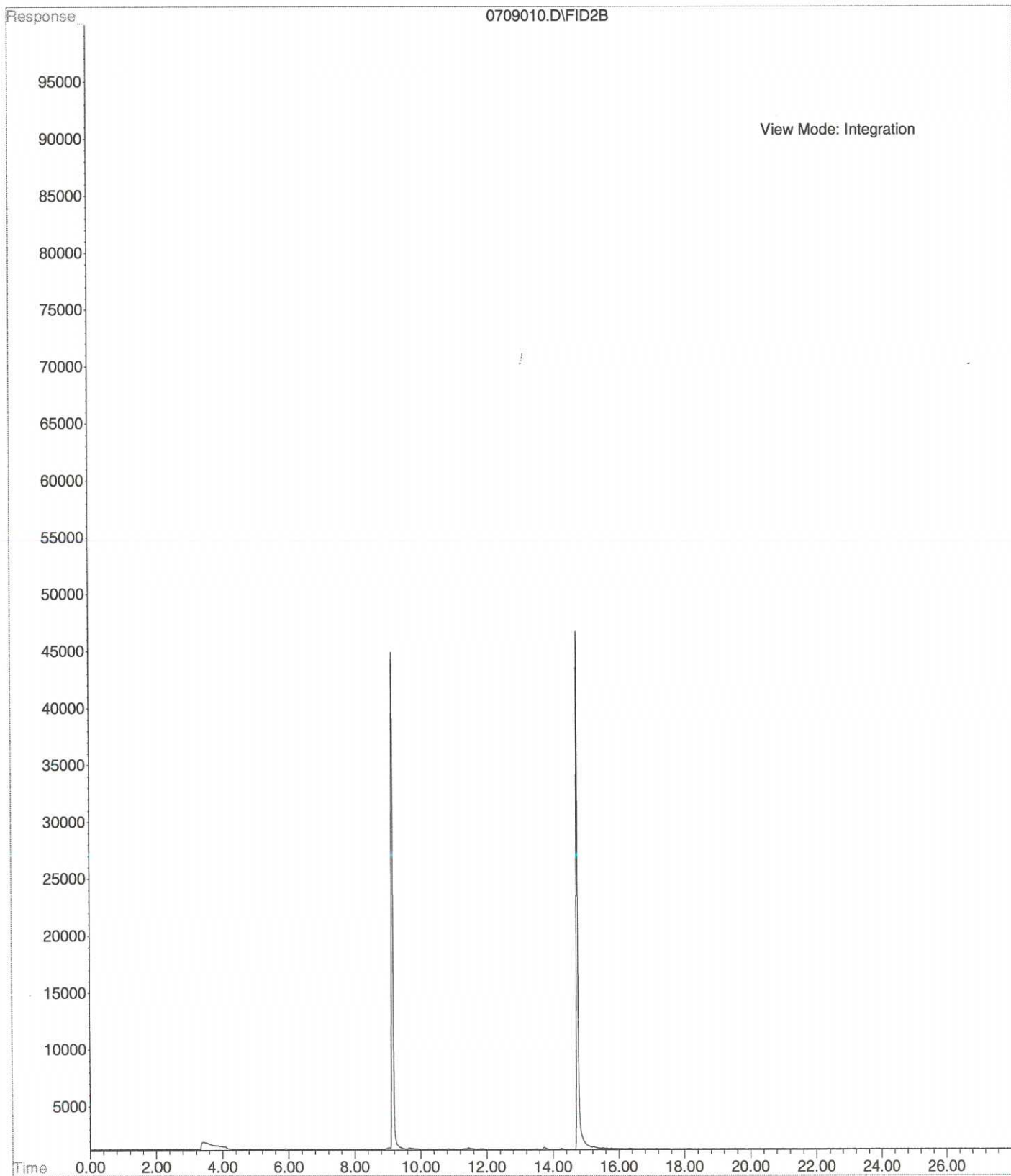
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Sample Name: 07-037-01s
Misc Info : V2-37-21
Vial Number: 7



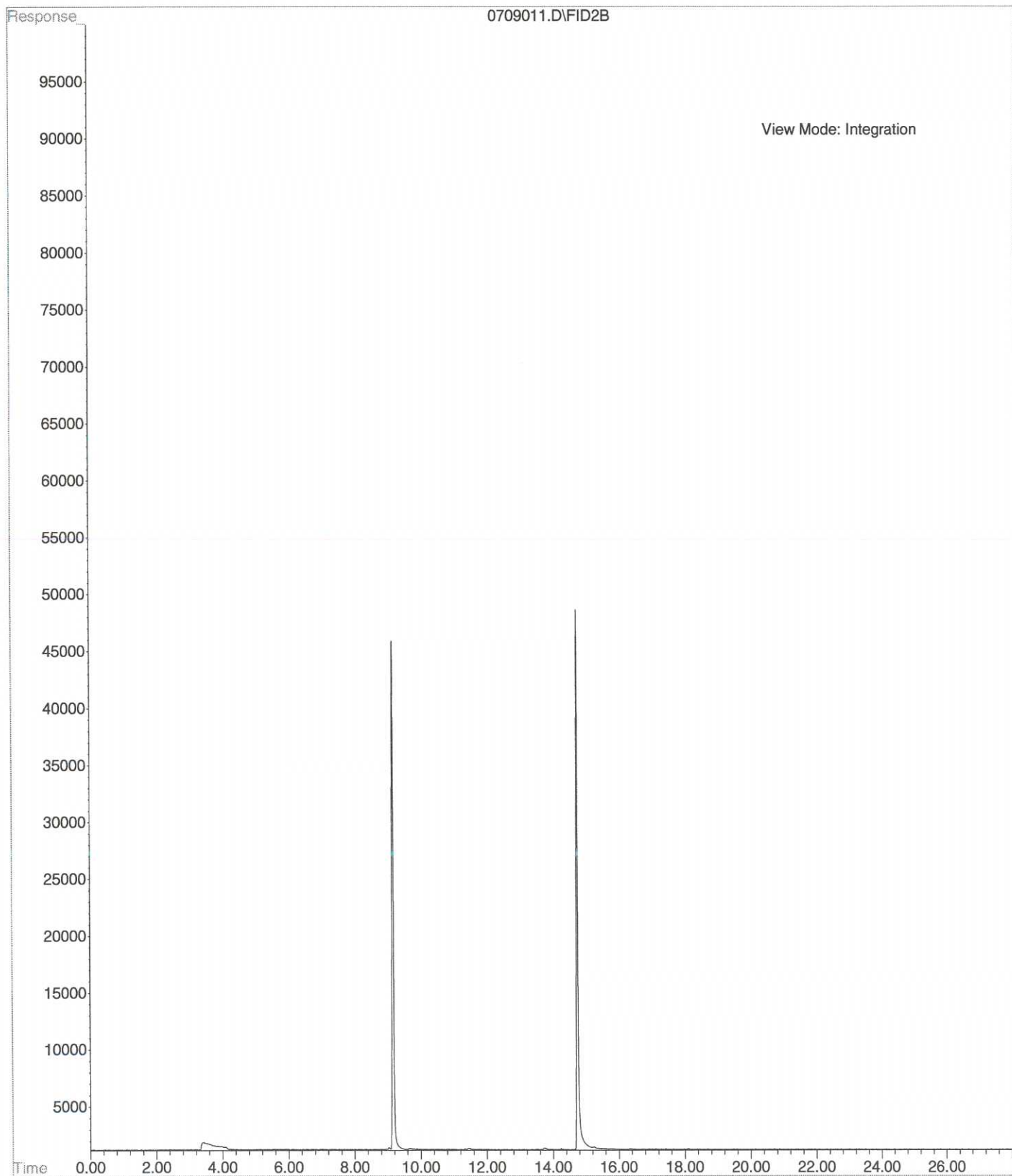
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Instrument : Hope
Sample Name: 07-037-02s
Misc Info : V2-37-21
Vial Number: 9



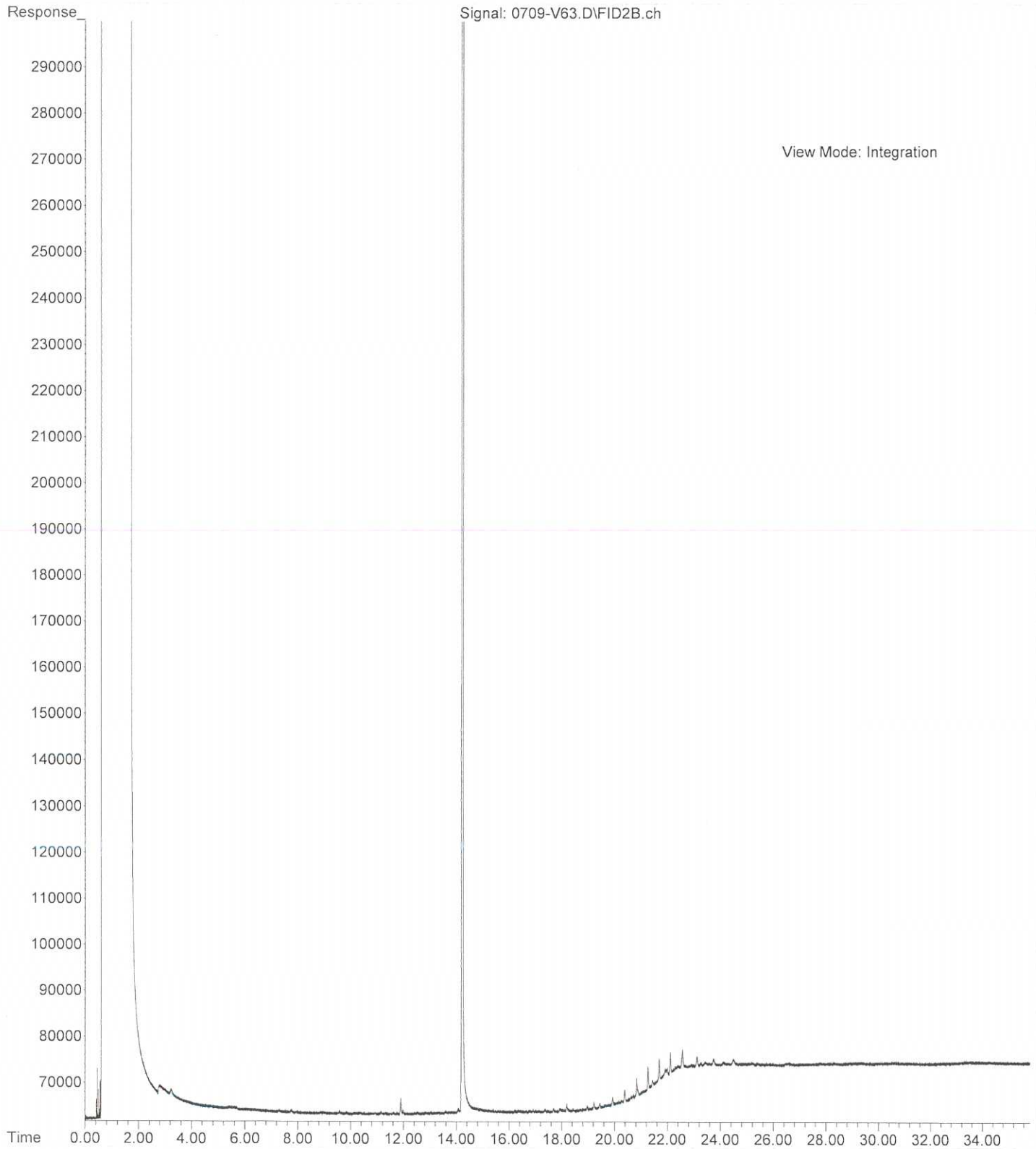
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Acquired : 9 Jul 2015 21:59 using AcqMethod 150701B.M
Instrument : Hope
Sample Name: 07-037-03s
Misc Info : V2-37-21
Vial Number: 10



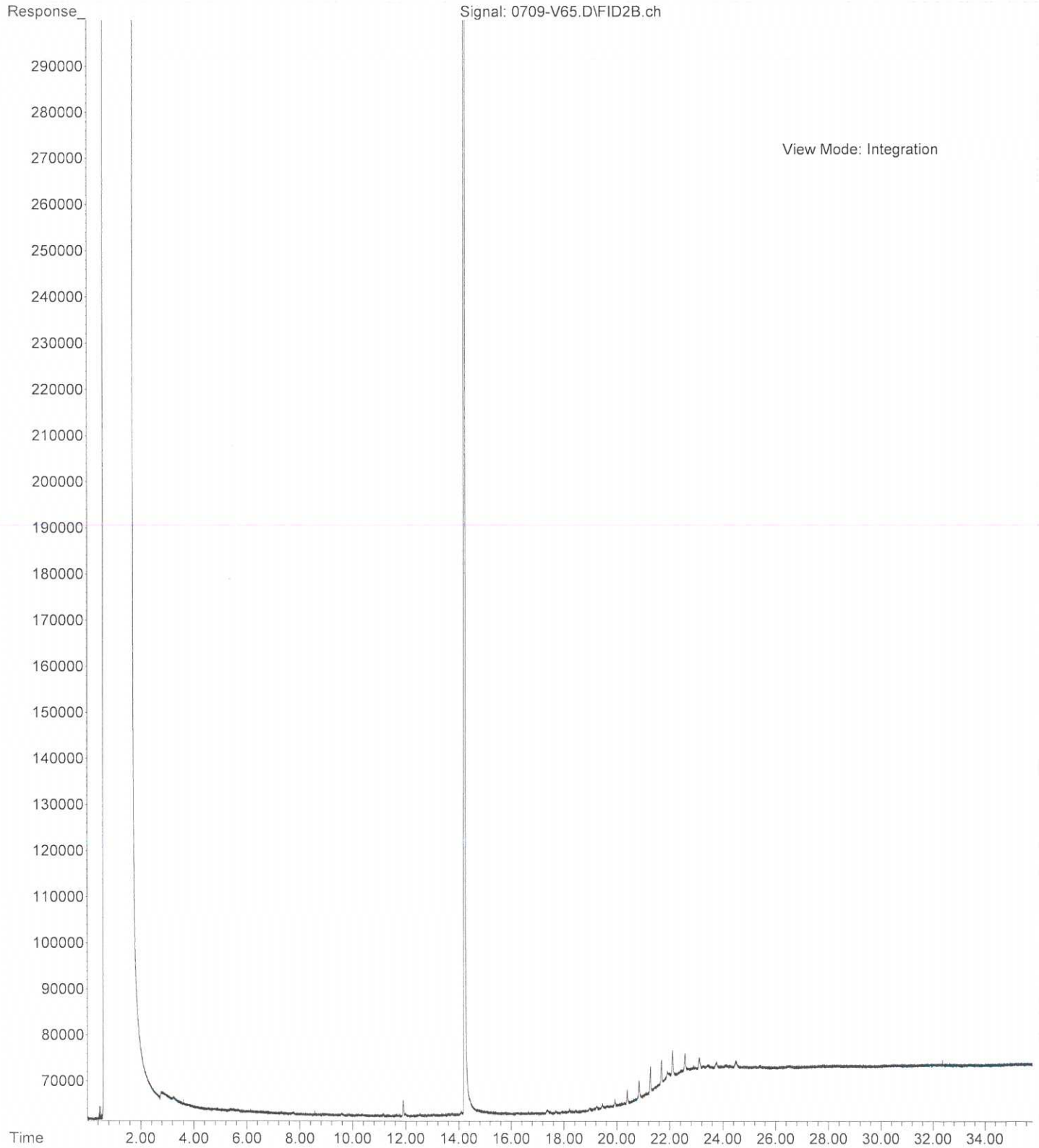
File : X:\BTEX\HOPE\DATA\H150709\0709011.D
Operator :
Acquired : 9 Jul 2015 22:34 using AcqMethod 150701B.M
Instrument : Hope
Sample Name: 07-037-04s
Misc Info : V2-37-21
Vial Number: 11



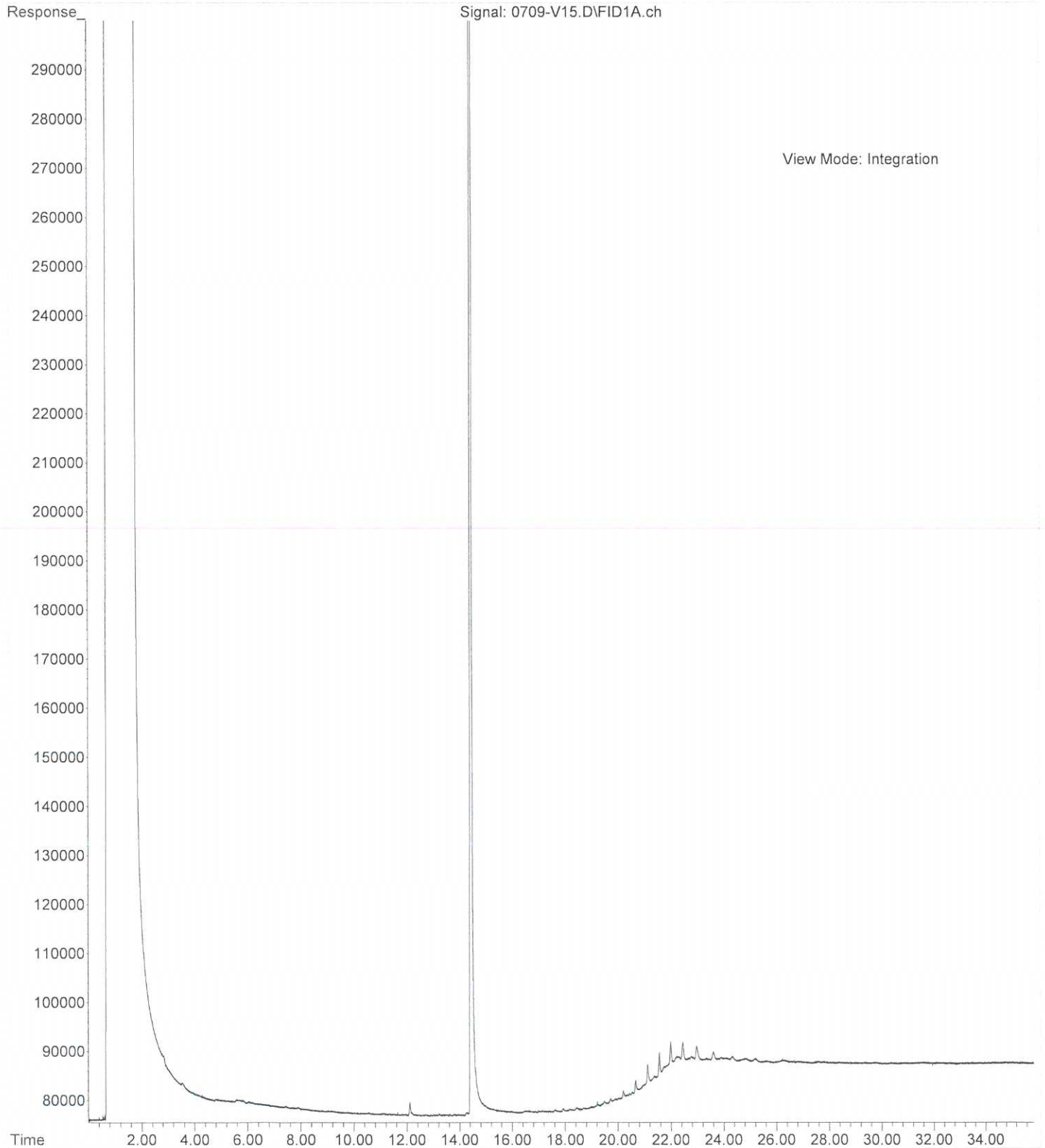
File :X:\DIESELS\VIGO\DATA\V150709.SEC\0709-V63.D
Operator :
Acquired : 9 Jul 2015 19:05 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 07-037-01
Misc Info :
Vial Number: 63



File :X:\DIESELS\VIGO\DATA\V150709.SEC\0709-V65.D
Operator :
Acquired : 9 Jul 2015 20:28 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 07-037-02
Misc Info :
Vial Number: 65



File :X:\DIESELS\VIGO\DATA\V150709\0709-V15.D
Operator :
Acquired : 9 Jul 2015 20:28 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 07-037-03
Misc Info :
Vial Number: 15





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 24, 2015

Fasih Khan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 21138-001-03
Laboratory Reference No. 1507-147

Dear Fasih:

Enclosed are the analytical results and associated quality control data for samples submitted on July 17, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: July 24, 2015
Samples Submitted: July 17, 2015
Laboratory Reference: 1507-147
Project: 21138-001-03

Case Narrative

Samples were collected on July 17, 2015 and received by the laboratory on July 17, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: July 24, 2015
Samples Submitted: July 17, 2015
Laboratory Reference: 1507-147
Project: 21138-001-03

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
G-1-W-071715	07-147-01	Water	7-17-15	7-17-15	

Date of Report: July 24, 2015
 Samples Submitted: July 17, 2015
 Laboratory Reference: 1507-147
 Project: 21138-001-03

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	G-1-W-071715					
Laboratory ID:	07-147-01					
Benzene	ND	1.0	EPA 8021B	7-20-15	7-20-15	
Toluene	ND	1.0	EPA 8021B	7-20-15	7-20-15	
Ethyl Benzene	ND	1.0	EPA 8021B	7-20-15	7-20-15	
m,p-Xylene	ND	1.0	EPA 8021B	7-20-15	7-20-15	
o-Xylene	ND	1.0	EPA 8021B	7-20-15	7-20-15	
Gasoline	ND	100	NWTPH-Gx	7-20-15	7-20-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	95	71-113				

Date of Report: July 24, 2015
 Samples Submitted: July 17, 2015
 Laboratory Reference: 1507-147
 Project: 21138-001-03

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	G-1-W-071715					
Laboratory ID:	07-147-01					
Diesel Range Organics	ND	0.26	NWTPH-Dx	7-22-15	7-22-15	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	7-22-15	7-22-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				

Date of Report: July 24, 2015
 Samples Submitted: July 17, 2015
 Laboratory Reference: 1507-147
 Project: 21138-001-03

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0720W1					
Benzene	ND	1.0	EPA 8021B	7-20-15	7-20-15	
Toluene	ND	1.0	EPA 8021B	7-20-15	7-20-15	
Ethyl Benzene	ND	1.0	EPA 8021B	7-20-15	7-20-15	
m,p-Xylene	ND	1.0	EPA 8021B	7-20-15	7-20-15	
o-Xylene	ND	1.0	EPA 8021B	7-20-15	7-20-15	
Gasoline	ND	100	NWTPH-Gx	7-20-15	7-20-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	100	71-113				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	07-147-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				95	89	71-113		

MATRIX SPIKES

Laboratory ID:	07-147-01									
	MS	MSD	MS	MSD	MS	MSD				
Benzene	55.5	55.8	50.0	50.0	ND	111	112	82-120	1	14
Toluene	53.9	54.2	50.0	50.0	ND	108	108	83-120	1	14
Ethyl Benzene	53.9	54.0	50.0	50.0	ND	108	108	83-120	0	15
m,p-Xylene	53.5	54.1	50.0	50.0	ND	107	108	81-123	1	15
o-Xylene	53.1	53.3	50.0	50.0	ND	106	107	80-120	0	16
<i>Surrogate:</i>										
<i>Fluorobenzene</i>						97	96	71-113		

Date of Report: July 24, 2015
 Samples Submitted: July 17, 2015
 Laboratory Reference: 1507-147
 Project: 21138-001-03

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0722W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	7-22-15	7-22-15	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	7-22-15	7-22-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	07-141-02							
	ORIG	DUP						
Diesel Range Organics	1.55	1.34	NA	NA	NA	NA	15	NA M
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				87	82	50-150		



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

APPENDIX D
UST2 and UST3 Removal Documents and 2003 NFA Letter



FILCO COMPANY INC.

P.O. Box 31228 • Seattle, WA 98103 • Ph: (206) 547-8347 • Fax: (206) 548-9352
www.FilcoEnviro.com • Lic# FILCOCIO8ØRU

LETTER OF CERTIFICATION

August 14th, 2015

City Transfer, Inc.
PO Box 88670
Seattle, Washington 98138

RE: Commercial Underground Heating Oil Tank at 2101 9th Avenue
Seattle, Washington 98121

This is to certify that Filco Company, Inc. has removed one approximate 1,000 gallon underground commercial heating oil tank from the above named property. The tank and its contents were disposed of according to the codes and guidelines set forth by the Washington State Department of Ecology and local Fire Department regulations and the decommissioned tank meets these standards.

Phil Suetens

Phil Suetens
President Filco Co., Inc.

Fri 8/14/15 @ 10AM AD

PERMITS@SEATTLE.GOV

RECEIVED

AUG 11 2015

PERMIT SE



Your Seattle Fire Department

APPLICATION FOR TEMPORARY PERMIT

Code 7908

Commercial Tank Removal/Decommissioning

Permit Fee: \$218.00

Date Issued: 8/15/15

Tank(s) must be removed from site on the same day as permit is issued!

TO BE COMPLETED BY PERMIT APPLICANT

FIRM NAME	Filco Company, Inc.		
MAILING ADDRESS	PO Box 31228	SUITE	
CITY	Seattle	STATE	WA ZIP 98103
JOBSITE ADDRESS	2101 2014 9th Ave		
CONTACT PERSON	Nate Montgomery	PHONE NUMBER	(206) 423-1791
Number of Tank(s):	one	Tank Size(s):	1,000
Product(s) Previously Contained:	heating oil		<input type="checkbox"/> Aboveground tank
			<input checked="" type="checkbox"/> Underground tank
<input checked="" type="checkbox"/>	Removal (Marine Chemist inspection and certificate required for all tanks regardless of size or contents)		
<input type="checkbox"/>	Abandonment-in-Place (Marine Chemist certificate required for tanks previously containing Class I flammable liquids and/or unknowns)		
Hot work being conducted:	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	(If yes, a separate hot work permit is required)

Permit applications may be submitted in person weekdays from 8:00 a.m. to 5:00 p.m., or mailed to:

Seattle Fire Department
Fire Marshal's Office - Permits
220 Third Ave S, 2nd Floor
Seattle, WA 98104-2608

To pay with a Visa or Master Card: Fax or email this application
THEN CALL US TO CONFIRM RECEIPT AND MAKE PAYMENT
Tel: (206) 386-1450 / Fax: (206) 386-1348
E-mail: permits@seattle.gov

Call 386-1450, at least 24 hours prior to needed inspection time to arrange for an appointment.
TANKS MAY BE REMOVED/DECOMMISSIONED ONLY AFTER FIRE DEPARTMENT INSPECTION
NO HOT WORK IS ALLOWED ON A TANK SYSTEM PRIOR TO ISSUANCE OF THIS FIRE DEPARTMENT PERMIT!

Permission is hereby granted to remove or decommission the tank(s) identified in this permit in accordance with the attached conditions, all noted special conditions, and all applicable provisions of the Seattle Fire Code, federal, state and local regulations. THIS PERMIT IS NULL AND VOID IF PERMIT CONDITIONS ARE NOT ATTACHED

Special permit conditions: Tank removal/decommissioning must be performed, or directly supervised, by an ICC certified individual (WAC 173-360-600)

SAFE FOR EXCAVATION FOR MARINE CHEMIST.

FMO USE:	APPROVED BY:
Check No.: 5-250161	Inspector: Mike Farley SFD ID# 1388
Receipt No.: 5156081115	Name of Marine Chemist: Amy Sly Certificate # 706
Application ID#: 102123	Date: 8/15/15

SOUND TESTING, INC.

P.O. BOX 16204 SEATTLE, WA 98116

(206) 932-0206 FAX (206) 937-3848

WWW.SOUNDTESTINGINC.COM

MARINE CHEMIST CERTIFICATE

SERIAL N° 46561

Survey Requested by: FLCO Vessel Owner or Agent: — Date: AUGUST 14, 2015
 Vessel: 1000 g UST Type of Vessel: UST Specific Location of Vessel: 2101 9th AVE
 Last Three (3) Loadings: HFO Tests Performed: O₂ = 20.97%, LEL = 0%, CO, H₂S 4ppm Time Survey Completed: 10:00 AM
THC = 35ppm SI

1000 g UST } SAFE FOR EXCAVATION
SAFE FOR DEMOLITION

In the event of changes adversely affecting conditions in the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

Qualifications: Manipulation of valves or devices tending to alter conditions in pipe lines or tanks noted above, unless specifically approved in this certificate, will require re-inspection and a new Certificate for spaces so affected. All piping, heating coils, pumps and floating roof gaskets attached to or contained within spaces listed above shall be considered "NOT SAFE" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS

(These detail the minimum conditions for Safe Entry and Hot Work.) The Marine Chemist may request additional measures if workplace conditions so dictate.

ATMOSPHERE SAFE FOR WORKERS means that in a space (a) the oxygen content is between 19.5% and 22% by volume, and (b) combustible gas is less than 10% of the Lower Explosive Limit, and (c) airborne toxic materials are within permissible concentrations as listed in OSHA's Subpart Z or in ACGIH's current list of Threshold Limit Values.

SAFE FOR HOT WORK means that (a) oxygen within the space is less than 22% by volume; and (b) the combustible gas is less than 10% of the Lower Explosive Limit; and (c) cargo residues within the space will not combust during hot work; and (d) pipes that can deliver hazardous materials to the workspace have been separated, blanked, or locked out, and nearby hazardous spaces have been evaluated and noted on the certificate.

NOT SAFE FOR HOT WORK: In the compartment or space so designated, hot work is not permitted.

"The undersigned acknowledges receipt of this Certificate and understands conditions and limitations under which it was issued."

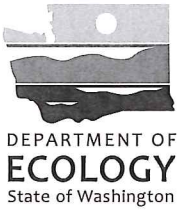
This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed: [Signature] Name: _____ Company: _____

Date: 8/14/15

Signed: [Signature] Marine Chemist: _____ Certificate No.: N° 706

POSTING



SITE CHECK/SITE ASSESSMENT CHECKLIST FOR UNDERGROUND STORAGE TANKS

UST ID #: _____

County: _____

This checklist certifies that site check or site assessment activities were performed in accordance with Chapter 173-360 WAC. Instructions are found on the last page.

I. UST FACILITY		II. OWNER/OPERATOR INFORMATION	
Facility Compliance Tag #:	NOT REGISTERED	Owner/Operator Name:	NINTH & LENORA LLC
UST ID #:	NOT REGISTERED	Business Name:	NINTH & LENORA LLC
Site Name:	9th & LENORA PROJECT	Address:	2118 WESTLAKE AVENUE
Site Address:	2118 WESTLAKE AVENUE	City:	SEATTLE
City:	SEATTLE	State:	WA
Phone:	NONE	Zip:	98121
		Phone:	206-682-7770 (SELLEN CONST.)
		Email:	NONE
III. CERTIFIED SITE ASSESSOR			
Service Provider Name:	FASIHULLAH KHAN	Company Name:	GEOENGINEERS, INC.
Cell Phone:	206.713.2138	Email:	FKHAN@GEOENGINEERS.COM
		Address:	600 STEWART ST, # 1700
Certification #:	8057 532	Exp. Date:	7/10/2015
		City:	SEATTLE
		State:	WA
		Zip:	98101
IV. TANK INFORMATION			
TANK ID	TANK CAPACITY	LAST SUBSTANCE STORED	DATE SITE CHECK OR ASSESSMENT CONDUCTED
UST 3	1,750 GALLONS	DIESEL FUEL#2 (HEATING OIL)	6/11/2015
V. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT (check one)			
<input checked="" type="checkbox"/> Release investigation following permanent UST system closure (i.e. tank removal or closure-in-place).			
<input type="checkbox"/> Release investigation following a failed tank and/or line tightness test.			
<input type="checkbox"/> Release investigation following discovery of contaminated soil and/or groundwater.			
<input type="checkbox"/> Release investigation directed by Ecology to determine if the UST system is the source of offsite impacts.			
<input type="checkbox"/> UST system is undergoing a "change-in-service", which is changing from storing a regulated substance (e.g. gasoline) to storing a non-regulated substance (e.g. water).			
<input type="checkbox"/> Directed by Ecology for UST system permanently closed or abandoned before 12/22/1988.			
<input type="checkbox"/> Other (describe):			

VI. CHECKLIST

**The site assessor must check each of the following items and include it in the report.
Sections referenced below can be found in the Ecology publication
*Guidance for Site Checks and Site Assessments for Underground Storage Tanks.***

	YES	NO
1. The location of the UST site is shown on a vicinity map.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. A brief summary of information obtained during the site inspection is provided (Section 3.2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. A summary of UST system data is provided (Section 3.1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. The soils characteristics at the UST site are described. (Section 5.2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is there any apparent groundwater in the tank excavation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. A brief description of the surrounding land use is provided. (Section 3.1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. The name and address of the laboratory used to perform analyses is provided. The methods used to collect and analyze the samples, including the number and types of samples collected, are also documented in the report. The data from the laboratory is appended to the report.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. The following items are provided in one or more sketches:		
• Location and ID number for all field samples collected	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• If applicable, groundwater samples are distinguished from soil samples	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Location of samples collected from stockpiled excavated soil	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Tank and piping locations and limits of excavation pit	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Adjacent structures and streets	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Approximate locations of any on-site and nearby utilities	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. If sampling procedures are different from those specified in the guidance, has justification for using these alternative sampling procedures been provided? (Section 3.4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method, and detection limit for that method. Any sample exceeding MTCA Method A cleanup standards are highlighted or bolded.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Any factors that may have compromised the quality of the data or validity of the results are described.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred. The requirements for reporting confirmed releases can be found in WAC 173-360-372.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

VII. REQUIRED SIGNATURES

Signature acknowledges the Site Check or Site Assessment complies with UST regulations WAC 173-360-360 through -395.

FASIHULLAH KHAN

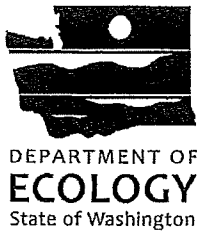
Print or Type Name



Signature of Certified Site Assessor

6/11/2015

Date



UNDERGROUND STORAGE TANK (UST) 30-DAY NOTICE

(See back of form for instructions)

CALLED IN

Please check the appropriate box: Intent to Install Intent to Close

FOR OFFICE USE ONLY

Site ID # _____

FS ID # _____

HQ (360)407-7170 / Central (509)575-2490 / Eastern (509)329-3400 / Northwest (425)649-7000 / Southwest (360)407-6300

SITE INFORMATION	OWNER INFORMATION (this form will be returned to this address)
Not registered	UST Owner/Operator
Tag or UBI number	Mailing Address/PO Box
Not registered	City
Site Name	Zip Code
9th & Lenora Project	2101 9th Avenue, Seattle, Wa 98121
Site Physical Address	Owner/Operator Phone Number
2101 9th Avenue, Seattle, Wa 98121	Owner/Operator Email Address
City	
206 682-7770 (Sellen Construction)	
Site Phone Number	

TANK INFORMATION				
Tank ID	Substance Stored	Capacity	Date Project is Expected to Begin	Comments:
1	Diesel fuel	2,000 g	6-11-2015	Reportedly, the 30-day tank decommissioning notice was called in prior to by contractor or other consultant prior to this notice being filled out.

1) SERVICE PROVIDER INFORMATION - check the appropriate boxes

PLEASE NOTE: INDIVIDUALS PERFORMING UST SERVICES MUST BE ICC CERTIFIED OR HAVE PASSED ANOTHER QUALIFYING EXAM APPROVED BY THE DEPARTMENT OF ECOLOGY.

Installer Decommissioner Site Assessor

Cert. #0878867-U2 and #0878867-U7

Service Provider Company Name: galloway Environmental, Inc. Contact Person: Gary Galloway

Certified Service Provider Name: Gary Galloway, Contact Phone Number: 425 688 8852. gallowaye@comcast.net

ICC Certification # _____ Contact Email Address _____

2) SERVICE PROVIDER INFORMATION (REQUIRED IF USING MORE THAN ONE PROVIDER) - check the appropriate boxes

Installer Decommissioner Site Assessor

Service Provider Company Name _____ Contact Person _____

Certified Service Provider Name _____ Contact Phone Number _____

ICC Certification # _____ Contact Email Address _____



DEPARTMENT OF
ECOLOGY
State of Washington

PERMANENT CLOSURE NOTICE FOR UNDERGROUND STORAGE TANKS

UST ID #: ?

County: King

This notice certifies that permanent closure activities were performed and conducted in accordance with Chapter 173-360 WAC. Instructions are found on the back page.

I. UST FACILITY			II. OWNER/OPERATOR INFORMATION			
Facility Compliance Tag #:			Owner/Operator Name:			
UST ID #: not registered			Business Name: 9th & Lenora Project			
Site Name: 9th & Lenora Project			Address: 2101 9th Avenue			
Site Address: 2101 9th Avenue			City: Seattle		State: WA	Zip: 98121
City: Seattle			Phone: 206-682-7770 (Sellen Construction)			
Phone: none			Email:			
III. CERTIFIED UST DECOMMISSIONER						
Company Name: Galloway Environmental, Inc.			Service Provider Name: Gary Galloway			
Address: 3102 220th PL SE			Certification Type: IFCI UST Decommissioning			
City: Sammamish		State: WA		Zip: 98075		Exp. Date: 6/4/2017
Provider Phone: 425-688-8852			Provider Email: gary@gallowayenvironmental.com			
Provider Signature:			Date: June 26, 2015			
IV. TANK INFORMATION						
TANK ID	TANK CAPACITY	LAST SUBSTANCE STORED	CLOSURE METHOD			CLOSURE DATE
			removal	closed-in-place	change-in-service	
1	2,000 gallons	diesel	x <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6/11/2015
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
V. REQUIRED SIGNATURE						
<i>Signature acknowledges UST(s) comply with UST regulation WAC 173-360-380 Temporary Closure Requirements.</i>						
Date	Signature of Tank Owner/Operator or Authorized Representative			Print or Type Name		

MARINE VACUUM SERVICE, INC.

UNDERGROUND STORAGE TANK TRIPLE RINSE CERTIFICATE

Tank Size: 6000 GALLONS

Tank Location: 2101 9th Ave
SEATTLE

Marine Vacuum Service, Inc. certifies that the above mentioned tank(s) have been triple rinsed in accordance with the industry standard and that all rinsate has been disposed of in accordance with Federal, State and Local regulations.

Tank Owner: 9th AND LINDORA LLC

Sub-Contractor: AMEC FOSTER WHEELER

M.V.S. Representative: Sakha

Date: 6-11-15

Notes:

Survey Requested by MARVAC

Vessel Owner or Agent 9th & Lenora LLC

Date 11 JUN 15

Vessel UST

Type of Vessel UST

Specific Location of Vessel 9th & Lenora

Last Three (3) Loadings Diesels X 3

Tests Performed VISUAL O₂

Time Survey Completed 1030

~ 2000 GAL ~~DIESEL~~ DIESEL UST

Inerted with CO₂
(O₂ < 6.0%)

SAFE FOR LIMITED HOT WORK
LIMITATIONS:

- ① POST FIRE WATCH
- ② MAY USE ABRASIVE SAW TO REMOVE 4 INCH RILL PIPE
- ③ MAY RIP OR ABRASIVE SAW OUT THE SMALLER VENT & PRODUCT LINES FROM THE TANK

[MPTED: DCU S/N SK102-005146/CAC0630-11JUN15]

In the event of physical or atmospheric changes affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, this certificate is voided; spaces not listed on the Certificate are not to be entered unless authorized on another Certificate and/or maintained in accordance with OSHA 29 CFR 1915; or if in any doubt, immediately stop all work and contact the Undersigned Marine Chemist. Unless otherwise stated on the Certificate, all spaces and affected adjacent spaces are to be reinspected daily or more often as necessary by the competent person in support of work prior to entry or recommencement of work.

QUALIFICATIONS: Transfer of ballast, cargo, fuel, or manipulation of valves or closure equipment tending to alter conditions in pipelines, tanks, or compartments subject to gas accumulation, unless specifically approved on this Certificate, requires inspection and a new Certificate for spaces so affected. All lines, vents, heating coils, valves, and similar enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated. Movement of the vessel from its specific location voids the Certificate unless shifting of the vessel within the facility has been specifically authorized on this Certificate.

STANDARD SAFETY DESIGNATIONS: (partial list, paraphrased from NFPA 306, Subsections 4.3.1 through 4.3.6).
ATMOSPHERE SAFE FOR WORKERS: In the compartment or space so designated (a) the oxygen content of the atmosphere is at least 19.5 percent and not greater than 22 percent by volume; (b) the concentration of flammable materials is below 10 percent of the lower explosive limit; (c) any toxic materials in the atmosphere associated with cargo, fuel, tank coatings, inerting mediums, or fumigants are within permissible concentrations at the time of the inspection.

NOT SAFE FOR WORKERS: In the compartment or space so designated, entry is not permitted.

ENTER WITH RESTRICTIONS: In the compartment or space so designated, entry for work is permitted only if conditions of proper protective equipment, or clothing, or time, or all of the aforementioned, as appropriate, are as specified.

SAFE FOR HOT WORK: In the compartment or space so designated (a) the oxygen content of the atmosphere is not greater than 22 percent by volume; (b) the concentration of flammable materials in the atmosphere is less than 10 percent of the lower explosive limit; (c) the residues, scale, or preservative coatings are cleaned sufficiently to prevent the spread of fire and are not capable of producing a higher concentration than permitted by (a) or (b); (d) all adjacent spaces, containing or having contained flammable or combustible materials shall be sufficiently cleaned of residues, scale, or preservative coatings to prevent the spread of fire, or they are inerted. Ship's fuel tanks, tube tanks, or engine room or fire room bilges, or other machinery spaces, are treated in accordance with the Marine Chemist's requirements.

SAFE FOR LIMITED HOT WORK: In the compartment or space so designated (a) portions of the space meet the requirements for Safe for Hot Work and Partial Cleaning, as applicable, or (b) the space is inerted, adjacent spaces meet the requirements for Safe for Hot Work, and hot work is restricted to specific locations; (c) portions of the space shall meet the requirements for Safe for Hot Work, as applicable, and the nature or type of hot work is limited or restricted.

NOT SAFE FOR HOT WORK: In the compartment or space so designated, hot work is not permitted.

CHEMISTS ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under NFPA 306 and understands conditions and limitations under which it was issued, and the requirements for maintaining its validity."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed [Signature] GALLAGHER ENV. Date 11 JUN 15

Signed [Signature] #688
MARINE CHEMIST
SOUND TESTING, INC. Certificate No.

POSTING COPY CRAIG 206-313-6833

THUR 06/11/15
1PM JK

RECEIVED
JUN 10 2015
PERMIT SECTION



Your
Seattle
Fire Department

APPLICATION FOR TEMPORARY PERMIT

Code 7908

Commercial Tank Removal/Decommissioning

Permit Fee: \$208.00 \$218-

Date Issued: 6/11/2015

Tank(s) must be removed from site on the same day as permit is issued!

TO BE COMPLETED BY PERMIT APPLICANT

FIRM NAME	MARINE VACUUM SERVICE, INC.		
MAILING ADDRESS	P. O. BOX 24263	SUITE	
CITY	SEATTLE	STATE	WA ZIP 98124
JOBSITE ADDRESS	2121 9TH AVENUE SEATTLE, WA 98121		
CONTACT PERSON	MIKE SCHIRMER	PHONE NUMBER	(206) 255-8174
Number of Tank(s):	1	Tank Size(s):	1,000
Product(s) Previously Contained:	HEATING OIL		
<input type="checkbox"/> Aboveground tank <input checked="" type="checkbox"/> Underground tank			
<input checked="" type="checkbox"/> Removal (Marine Chemist inspection and certificate required for all tanks regardless of size or contents)			
<input type="checkbox"/> Abandonment-in-Place (Marine Chemist certificate required for tanks previously containing Class I flammable liquids and/or unknowns)			
Hot work being conducted: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, a separate hot work permit is required)			

Permit applications may be submitted in person weekdays from 8:00 a.m. to 5:00 p.m., or mailed to:

Seattle Fire Department
Fire Marshal's Office - Permits
220 Third Ave S, 2nd Floor
Seattle, WA 98104-2608

To pay with a Visa or Master Card: Fax or email this application
THEN CALL US TO CONFIRM RECEIPT AND MAKE PAYMENT
Tel: (206) 386-1450 / Fax: (206) 386-1348
E-mail: permits@seattle.gov

Call 386-1450, at least 24 hours prior to needed inspection time to arrange for an appointment.
TANKS MAY BE REMOVED/DECOMMISSIONED ONLY AFTER FIRE DEPARTMENT INSPECTION
NO HOT WORK IS ALLOWED ON A TANK SYSTEM PRIOR TO ISSUANCE OF THIS FIRE DEPARTMENT PERMIT!

Permission is hereby granted to remove or decommission the tank(s) identified in this permit in accordance with the attached conditions, all noted special conditions, and all applicable provisions of the Seattle Fire Code, federal, state and local regulations. **THIS PERMIT IS NULL AND VOID IF PERMIT CONDITIONS ARE NOT ATTACHED**

Special permit conditions: Tank removal/decommissioning must be performed, or directly supervised, by an ICC certified individual (WAC 173-360-600)

OK FOR TANK REMOVAL

FMO USE:	APPROVED BY:	SFD ID#
Check No.: 4716061015	Inspector: JOAN LAUDORBACK	1077
Receipt No.: 5-247538	Name of Marine/Chemist: CRAIG	Certificate # 608
Application ID#: 101426	Date: 6/11/2015	

APPENDIX E
Contaminated Soil Tonnage Summaries

REGIONAL DISPOSAL COMPANY INTERMODA
 PO BOX 51057
 LOS ANGELES, CA 90074-1057
 (206) 332-7731

INVOICE

TO:

Gary Merlino
 9125 10th Ave. S.
 Seattle, WA 98108

Contaminated soils removed from
 deep side sewer work on 9th Avenue.

INVOICE NO. 0000048605
 PAGE 1
 DATE Apr-30-15
 CUSTOMER NO. 11105
 LW-15110
 SITE NO.
 REFERENCE NO.

SERVICE DATE	CODE	DESCRIPTION	REFERENCE	QTY.	AMOUNT
		Balance forward :			\$23,491.16
		Payments :			\$9,292.82
		Adjustments :			\$0.00
		Invoices :			\$0.00
30 - Apr	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$45.00 01-922746 ✓	16.15 TN	\$726.75
30 - Apr	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$45.00 01-922748 ✓	17.02 TN	\$765.90
30 - Apr	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$45.00 01-922752 ✓	16.98 TN	\$764.10
30 - Apr	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$45.00 01-922763 ✓	15.97 TN	\$718.65
30 - Apr	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$45.00 01-922764 ✓	14.50 TN	\$652.50
30 - Apr	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$45.00 01-922776 ✓	16.27 TN	\$732.15
30 - Apr	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$45.00 01-922777 ✓	16.85 TN	\$758.25

Account Status

CURRENT 31 - 60 DAYS 61 - 90 DAYS OVER 90 DAYS

Payment due upon receipt of this invoice. 1.5% per month (18% per annum) late charge on balances over 30 days from date of invoice.
 Payments received after invoice date are not reflected.
 To ensure proper credit, please include your account number on your check and include the bottom portion of this invoice. When making payment on multiple accounts, please include the account numbers and the amounts of payment.

TOTAL THIS INVOICE

PLEASE PAY THIS AMOUNT

We reserve the right to suspend service without notice on any past due account.

Please remit to:

INVOICE NO.
 PAGE
 DATE
 CUSTOMER NO.
 SITE NO.
 REFERENCE NO.

AMOUNT OF REMITTANCE

PLEASE RETURN THIS PORTION WITH REMITTANCE

REMARKS

REGIONAL DISPOSAL COMPANY INTERMODA
 PO BOX 51057
 LOS ANGELES, CA 90074-1057
 (206) 332-7731

INVOICE

TO:

Gary Merlino
 9125 10th Ave. S.
 Seattle, WA 98108

INVOICE NO. 0000048647
 PAGE 2
 DATE May-15-15
 CUSTOMER NO. 11105
 LW-15110
 SITE NO.
 REFERENCE NO.

SERVICE DATE	CCDE	DESCRIPTION	REFERENCE	QTY.	AMOUNT
		<u>Material Summary</u>			
	VH	SW-CONT SOIL W/FUEL			102.95 TN

15-407
 14-520
 JOB # 14-520
 COST CODE # 10-091-0030
 COST CATEGORY (CIRCLE ONE)
 MAT MIX MTU SUB EQR OTM
 PM TW DATE 5-29-15

Payment due upon receipt of this invoice. 1.5% per month (18% per annum) late charge on balances over 30 days from date of invoice.
 Payments received after invoice date are not reflected.
 To ensure proper credit, please include your account number on your check and include the bottom portion of this invoice. When making payment on multiple accounts, please include the account numbers and the amounts of payment.

Account Status

CURRENT	31 - 60 DAYS	61 - 90 DAYS	OVER 90 DAYS
\$ 13,324.95	\$ 0.00	\$ 0.00	\$ 3,802.26

TOTAL THIS INVOICE \$4,632.75

PLEASE PAY THIS AMOUNT \$17,127.21

We reserve the right to suspend service without notice on any past due account.

Please remit to:

INVOICE NO. 0000048647
 PAGE 2
 DATE May-15-15
 CUSTOMER NO. 11105
 SITE NO.
 REFERENCE NO.

REGIONAL DISPOSAL COMPANY INTERMODA
 PO BOX 51057
 LOS ANGELES, CA 90074-1057
 (206) 332-7731

AMOUNT OF REMITTANCE

PLEASE RETURN THIS PORTION WITH REMITTANCE

REMARKS

*** Please reference your invoice number on each check stub ***
 For Billing Inquiries: Call (206)332-7731 or email: chartje@republicservices.com

REGIONAL DISPOSAL COMPANY INTERMODA
 PO BOX 51057
 LOS ANGELES, CA 90074-1057
 (206) 332-7731

INVOICE

TO:

 Gary Merlino
 9125 10th Ave. S.
 Seattle, WA 98108

INVOICE NO. 0000048647
 PAGE 1
 DATE May-15-15
 11105
 CUSTOMER NO. LW-15110
 SITE NO.
 REFERENCE NO.

SERVICE DATE	CODE	DESCRIPTION	REFERENCE	QTY.	AMOUNT
		Balance forward :			\$22,890.54
		Payments :			\$10,396.08
		Adjustments :			\$0.00
		Invoices :			\$0.00
01 - May	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$45.00 01-922808	16.19 TN	\$728.55
01 - May	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$45.00 01-922810	14.57 TN	\$655.65
01 - May	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$45.00 01-922816	13.77 TN	\$619.65
01 - May	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$45.00 01-922817	13.67 TN	\$615.15
01 - May	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$45.00 01-922824	14.87 TN	\$669.15
01 - May	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$45.00 01-922825	15.92 TN	\$716.40
04 - May	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	\$45.00 01-922868	13.96 TN	\$628.20

Payment due upon receipt of this invoice. 1.5% per month (18% per annum) late charge on balances over 30 days from date of invoice.
 Payments received after invoice date are not reflected.
 To ensure proper credit, please include your account number on your check and include the bottom portion of this invoice. When making payment on multiple accounts, please include the account numbers and the amounts of payment.

Account Status

CURRENT 31 - 60 DAYS 61 - 90 DAYS OVER 90 DAYS

TOTAL THIS INVOICE

PLEASE PAY THIS AMOUNT

We reserve the right to suspend service without notice on any past due account.

Please remit to:

INVOICE NO.
 PAGE
 DATE
 CUSTOMER NO.
 SITE NO.
 REFERENCE NO.

AMOUNT OF REMITTANCE

PLEASE RETURN THIS PORTION WITH REMITTANCE

REMARKS

(206) 332-7731

TO:

Gary Merlino
9125 10th Ave. S.
Seattle, WA 98108

INVOICE NO. 0000048605
PAGE 2
DATE Apr-30-15
CUSTOMER NO. 11105 LW-15110
SITE NO.
REFERENCE NO.

SERVICE DATE	CODE	DESCRIPTION	REFERENCE	QTY.	AMOUNT
30 - Apr	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	01-922785 ✓	15.15 TN	\$681.75
30 - Apr	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	01-922788 ✓	15.08 TN	\$678.60
30 - Apr	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	01-922791 ✓	16.21 TN	\$729.45
30 - Apr	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	01-922797	16.58 TN	\$746.10
30 - Apr	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	01-922799 ✓	16.40 TN	\$738.00
	VH	<u>Material Summary</u> SW-CONT SOIL W/FUEL		193.16 TN	

2015-407
 COST CODE # 10-041-0030
 COST CATEGORY (CIRCLE ONE)
 MAT MIX MTU SUB EQR **OTH**
 PM TU DATE 5-7-15

Account Status

Payment due upon receipt of this invoice. 1.5% per month (18% per annum) late charge on balances over 30 days from date of invoice.
Payments received after invoice date are not reflected.
To ensure proper credit, please include your account number on your check and include the bottom portion of this invoice. When making payment on multiple accounts, please include the account numbers and the amounts of payment.

CURRENT	31 - 60 DAYS	61 - 90 DAYS	OVER 90 DAYS
\$ 8,851.20	\$ 0.00	\$ 14,039.34	\$ 0.00

TOTAL THIS INVOICE \$8,692.20
~~**PLEASE PAY THIS AMOUNT** \$22,890.54~~

We reserve the right to suspend service without notice on any past due account.

Please remit to:

INVOICE NO. 0000048605
PAGE 2
DATE Apr-30-15
CUSTOMER NO. 11105
SITE NO.
REFERENCE NO.

REGIONAL DISPOSAL COMPANY INTERMODA
PO BOX 51057
LOS ANGELES, CA 90074-1057
(206) 332-7731

AMOUNT OF REMITTANCE

PLEASE RETURN THIS PORTION WITH REMITTANCE

REMARKS

*** Please reference your invoice number on each check stub ***
For Billing Inquiries: Call (206)332-7731 or email: chartje@republicservices.com

9th & Lenora

CTI Contaminated Soil Tracking

Thru Friday, 8/28

Load Count:

Tonnage:

Year	Mth	Delivery Date	Project #	Project Name	Source	Destination	Ticket #	Truck #	Hauler
2015	June	6/16/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	104695	372	CTI
2015	June	6/16/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	104727	372	CTI
2015	June	6/16/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	104763	372	CTI
2015	June	6/16/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	104693	375	CTI
2015	June	6/16/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	104725	375	CTI
2015	June	6/16/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	104765	375	CTI
2015	July	7/8/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106076	417	CTI
2015	July	7/8/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106087	417	CTI
2015	July	7/8/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106100	417	CTI
2015	July	7/8/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106110	417	CTI
2015	July	7/8/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106115	417	CTI
2015	July	7/8/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106074	425	CTI
2015	July	7/8/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106082	425	CTI
2015	July	7/8/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106091	425	CTI
2015	July	7/8/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106097	425	CTI
2015	July	7/8/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106106	425	CTI
2015	July	7/8/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106113	425	CTI
2015	July	7/8/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106117	425	CTI
2015	July	7/9/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106147	425	CTI
2015	July	7/9/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106159	425	CTI
2015	July	7/9/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106167	425	CTI
2015	July	7/9/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106178	425	CTI
2015	July	7/9/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106140	411	CTI
2015	July	7/9/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106156	411	CTI
2015	July	7/9/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106165	411	CTI
2015	July	7/9/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106177	411	CTI
2015	July	7/10/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106190	417	CTI
2015	July	7/10/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106201	417	CTI
2015	July	7/10/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106215	417	CTI
2015	July	7/10/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106225	417	CTI
2015	July	7/10/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106188	410	CTI
2015	July	7/10/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106200	410	CTI

Year	Mth	Delivery Date	Project #	Project Name	Source	Destination	Ticket #	Truck #	Hauler
2015	July	7/10/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106214	410	CTI
2015	July	7/10/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106223	410	CTI
2015	July	7/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106304	364	CTI
2015	July	7/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106311	364	CTI
2015	July	7/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106316	364	CTI
2015	July	7/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106323	364	CTI
2015	July	7/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106330	364	CTI
2015	July	7/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106303	420	CTI
2015	July	7/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106309	420	CTI
2015	July	7/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106315	420	CTI
2015	July	7/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106322	420	CTI
2015	July	7/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106327	420	CTI
2015	July	7/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106332	420	CTI
2015	July	7/15/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106401	412	CTI
2015	July	7/15/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106415	412	CTI
2015	July	7/15/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106424	412	CTI
2015	July	7/15/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106435	412	CTI
2015	July	7/15/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106450	412	CTI
2015	July	7/15/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106459	412	CTI
2015	July	7/15/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106398	422	CTI
2015	July	7/15/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106412	422	CTI
2015	July	7/15/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106423	422	CTI
2015	July	7/15/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106434	422	CTI
2015	July	7/15/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106447	422	CTI
2015	July	7/15/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106456	422	CTI
2015	July	7/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106493	425	CTI
2015	July	7/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106498	425	CTI
2015	July	7/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106502	425	CTI
2015	July	7/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106508	425	CTI
2015	July	7/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106517	425	CTI
2015	July	7/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106520	425	CTI
2015	July	7/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106525	425	CTI
2015	July	7/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106534	425	CTI
2015	July	7/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106503	417	CTI
2015	July	7/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106513	417	CTI

Year	Mth	Delivery Date	Project #	Project Name	Source	Destination	Ticket #	Truck #	Hauler
2015	July	7/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106518	417	CTI
2015	July	7/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106523	417	CTI
2015	July	7/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106529	417	CTI
2015	July	7/20/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106550	364	CTI
2015	July	7/20/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106564	364	CTI
2015	July	7/20/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106586	364	CTI
2015	July	7/20/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106596	364	CTI
2015	July	7/20/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106603	364	CTI
2015	July	7/20/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106614	364	CTI
2015	July	7/20/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106621	364	CTI
2015	July	7/20/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106557	419	CTI
2015	July	7/20/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106574	419	CTI
2015	July	7/20/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106589	419	CTI
2015	July	7/20/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106598	419	CTI
2015	July	7/20/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106607	419	CTI
2015	July	7/20/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106617	419	CTI
2015	July	7/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106627	412	CTI
2015	July	7/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106631	412	CTI
2015	July	7/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106635	412	CTI
2015	July	7/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106639	412	CTI
2015	July	7/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106646	412	CTI
2015	July	7/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106657	412	CTI
2015	July	7/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106661	412	CTI
2015	July	7/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106624	364	CTI
2015	July	7/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106629	364	CTI
2015	July	7/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106633	364	CTI
2015	July	7/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106637	364	CTI
2015	July	7/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106644	364	CTI
2015	July	7/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106654	364	CTI
2015	July	7/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106658	364	CTI
2015	July	7/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106662	364	CTI
2015	July	7/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106638	419	CTI
2015	July	7/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106645	419	CTI
2015	July	7/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106655	419	CTI
2015	July	7/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106660	419	CTI

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2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106720	28	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106740	28	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106757	28	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106772	28	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106782	28	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106793	28	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106731	10	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106751	10	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106767	10	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106781	10	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106791	10	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106728	9	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106749	9	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106766	9	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106779	9	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106790	9	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106723	26	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106742	26	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106760	26	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106775	26	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106786	26	RINO
2015	July	7/23/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106796	26	RINO
2015	July	7/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106815	28	RINO
2015	July	7/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106829	28	RINO
2015	July	7/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106851	28	RINO
2015	July	7/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106824	26	RINO
2015	July	7/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106849	26	RINO
2015	July	7/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106812	10	RINO
2015	July	7/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106826	10	RINO
2015	July	7/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106847	10	RINO
2015	July	7/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106861	10	RINO
2015	July	7/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106819	9	RINO
2015	July	7/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106840	9	RINO
2015	July	7/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106585	9	RINO
2015	July	7/27/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106900	3201	SS

Year	Mth	Delivery Date	Project #	Project Name	Source	Destination	Ticket #	Truck #	Hauler
2015	July	7/27/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106896	991	MCCANN
2015	July	7/27/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106925	991	MCCANN
2015	July	7/27/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	106951	991	MCCANN
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107102	425	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107118	425	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107129	425	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107141	425	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107147	425	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107155	425	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107169	425	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107176	425	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107104	426	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107119	426	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107132	426	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107150	426	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107164	426	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107172	426	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107109	422	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107125	422	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107137	422	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107151	422	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107166	422	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107174	422	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107110	412	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107126	412	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107138	412	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107146	412	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107154	412	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107170	412	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107106	DT04	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107124	DT04	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107134	DT04	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107144	DT04	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107149	DT04	CTI
2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107157	DT04	CTI

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2015	July	7/29/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107171	DT04	CTI
2015	July	7/30/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107179	424	CTI
2015	July	7/30/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107187	424	CTI
2015	July	7/30/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107194	424	CTI
2015	July	7/30/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107198	424	CTI
2015	July	7/30/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107180	419	CTI
2015	July	7/30/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107188	419	CTI
2015	July	7/30/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107181	411	CTI
2015	July	7/30/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107189	411	CTI
2015	July	7/30/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107182	410	CTI
2015	July	7/30/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107190	410	CTI
2015	July	7/30/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107183	425	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107298	426	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107308	426	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107320	426	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107300	422	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107309	422	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107322	422	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107301	412	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107310	412	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107323	412	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107302	420	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107313	420	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107326	420	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107331	420	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107338	420	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107342	420	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107305	364	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107316	364	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107327	364	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107333	364	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107339	364	CTI
2015	August	8/4/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107347	364	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107605	424	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107617	424	CTI

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2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107634	424	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107647	424	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107661	424	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107673	424	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107606	419	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107620	419	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107633	419	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107645	419	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107660	419	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107671	419	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107684	419	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107607	411	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107621	411	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107635	411	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107648	411	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107662	411	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107674	411	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107608	410	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107623	410	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107637	410	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107652	410	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107665	410	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107675	410	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107610	417	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107625	417	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107639	417	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107653	417	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107667	417	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107676	417	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107612	425	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107627	425	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107640	425	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107657	425	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107669	425	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107682	425	CTI

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2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107614	426	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107628	426	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107642	426	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107659	426	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107670	426	CTI
2015	August	8/11/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107683	426	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107692	410	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107706	410	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107716	410	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107732	410	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107742	410	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107691	411	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107705	411	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107715	411	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107730	411	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107741	411	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107694	417	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107707	417	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107718	417	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107733	417	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107743	417	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107690	419	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107702	419	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107714	419	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107727	419	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107738	419	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107688	424	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107701	424	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107712	424	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107723	424	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107737	424	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107695	425	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107709	425	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107721	425	CTI
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107736	425	CTI

Year	Mth	Delivery Date	Project #	Project Name	Source	Destination	Ticket #	Truck #	Hauler
2015	August	8/12/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107747	425	CTI
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107765	419	CTI
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107782	419	CTI
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107800	419	CTI
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107816	419	CTI
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107831	419	CTI
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107764	424	CTI
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107779	424	CTI
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107798	424	CTI
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107815	424	CTI
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107828	424	CTI
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107849	424	CTI
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107861	424	CTI
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107771	SS108	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107794	SS108	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107814	SS108	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107823	SS108	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107842	SS108	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107857	SS108	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107770	SS127	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107793	SS127	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107813	SS127	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107825	SS127	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107846	SS127	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107860	SS127	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107767	SS169	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107785	SS169	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107804	SS169	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107817	SS169	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107833	SS169	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107852	SS169	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107769	SS171	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107787	SS171	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107809	SS171	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107819	SS171	SS

Year	Mth	Delivery Date	Project #	Project Name	Source	Destination	Ticket #	Truck #	Hauler
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107840	SS171	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107859	SS171	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107774	SS43	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107802	SS43	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107818	SS43	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107838	SS43	SS
2015	August	8/13/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107856	SS43	SS
2015	August	8/14/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107875	341	CTI
2015	August	8/14/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107869	410	CTI
2015	August	8/14/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107893	410	CTI
2015	August	8/14/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107868	411	CTI
2015	August	8/14/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107891	411	CTI
2015	August	8/14/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107871	417	CTI
2015	August	8/14/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107867	419	CTI
2015	August	8/14/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107874	420	CTI
2015	August	8/14/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107873	425	CTI
2015	August	8/14/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107906	EH7T	SS
2015	August	8/14/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107907	NL60T	SS
2015	August	8/14/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107901	SS100	SS
2015	August	8/14/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107897	SS127	SS
2015	August	8/14/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107892	SS129	SS
2015	August	8/14/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107898	SS97	SS
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107935	425	CTI
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107937	SS169	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107939	SS31	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107941	SS108	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107943	SS129	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107945	SS127	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107947	SS97	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107949	SS100	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107955	356	CTI
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107968	356	CTI
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107969	SS169	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107972	SS31	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107973	SS108	

Year	Mth	Delivery Date	Project #	Project Name	Source	Destination	Ticket #	Truck #	Hauler
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107974	SS37	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107975	SS129	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107976	SS127	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107977	SS97	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107979	SS100	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107981	SS169	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107984	425	CTI
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107987	SS109	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107988	SS37	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107989	SS129	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107990	SS127	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107991	SS97	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107993	SS100	
2015	August	8/17/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	107994	426	CTI
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108005	426	CTI
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108006	SS169	SS
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108007	SS109	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108008	SS31	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108009	SS108	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108011	SS127	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108013	426	CTI
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108014	SS169	SS
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108015	SS109	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108017	SS31	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108019	SS108	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108021	SS127	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108023	426	CTI
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108027	SS169	SS
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108028	SS109	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108032	SS31	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108034	SS108	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108035	SS127	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108036	426	CTI
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108038	SS169	SS
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108041	SS109	

Year	Mth	Delivery Date	Project #	Project Name	Source	Destination	Ticket #	Truck #	Hauler
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108043	SS31	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108045	SS108	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108046	SS127	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108047	426	CTI
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108049	SS169	SS
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108050	SS109	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108052	SS31	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108055	SS127	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108057	SS108	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108058	426	CTI
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108059	SS169	SS
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108061	SS109	
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108067	SS31	SS
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108068	SS127	SS
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108069	SS108	SS
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108070	356	CTI
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108071	426	CTI
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108073	SS169	SS
2015	August	8/18/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108075	SS109	SS
2015	August	8/19/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108087	SS169	SS
2015	August	8/19/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108088	SS109	
2015	August	8/19/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108092	SS117	
2015	August	8/19/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108094	SS127	
2015	August	8/19/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108096	SS31	
2015	August	8/19/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108099	SS37	
2015	August	8/19/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108103	SS169	SS
2015	August	8/19/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108105	356	CTI
2015	August	8/19/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108107	SS109	
2015	August	8/19/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108110	SS117	
2015	August	8/19/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108113	SS127	
2015	August	8/19/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108116	SS31	
2015	August	8/19/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108140	356	CTI
2015	August	8/20/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108242	SS169	
2015	August	8/20/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108243	SS31	
2015	August	8/20/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108249	SS37	

Year	Mth	Delivery Date	Project #	Project Name	Source	Destination	Ticket #	Truck #	Hauler
2015	August	8/20/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108251	419	CTI
2015	August	8/20/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108253	SS127	
2015	August	8/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108307	SS169	SS
2015	August	8/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108308	SS127	
2015	August	8/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108311	SS31	
2015	August	8/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108313	SS129	
2015	August	8/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108315	SS37	
2015	August	8/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108317	410	
2015	August	8/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108409	SS169	SS
2015	August	8/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108410	SS127	SS
2015	August	8/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108413	410	CTI
2015	August	8/21/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108418	SS31	SS
2015	August	8/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108425	SS169	
2015	August	8/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108426	SS31	
2015	August	8/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108428	SS37	
2015	August	8/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108430		
2015	August	8/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108432		
2015	August	8/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108433		
2015	August	8/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108441	SS169	
2015	August	8/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108443	SS31	
2015	August	8/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108445	SS37	
2015	August	8/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108448		
2015	August	8/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108456	SS169	
2015	August	8/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108458	SS37	
2015	August	8/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108462	SS31	
2015	August	8/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108469	SS169	
2015	August	8/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108472	SS37	
2015	August	8/24/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108497	SS31	SS
2015	August	8/26/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108687		
2015	August	8/26/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108688		
2015	August	8/26/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108689		
2015	August	8/26/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108709		
2015	August	8/26/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108714		
2015	August	8/26/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108718		
2015	August	8/26/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108734		

Year	Mth	Delivery Date	Project #	Project Name	Source	Destination	Ticket #	Truck #	Hauler
2015	August	8/26/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108740		
2015	August	8/26/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108742		
2015	August	8/26/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108755		
2015	August	8/27/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108858		
2015	August	8/27/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108859		
2015	August	8/27/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108862		
2015	August	8/27/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108863		
2015	August	8/27/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108865		
2015	August	8/27/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108867		
2015	August	8/28/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108897		
2015	August	8/28/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108898		
2015	August	8/28/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108900		
2015	August	8/28/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108902		
2015	August	8/28/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108905		
2015	August	8/28/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108906		
2015	August	8/28/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108908		
2015	August	8/28/2015	15-020	9th & Lenora	Job Site	WASTE MANAGEMENT	108909		

469.00
14,245.26

Subtotal: 836,909.03

Quantity	Units	Rate	Billable Value
15.08	Tons	58.75	885.95
16.47	Tons	58.75	967.61
14.64	Tons	58.75	860.10
13.87	Tons	58.75	814.86
16.43	Tons	58.75	965.26
14.14	Tons	58.75	830.73
30.15	Tons	58.75	1,771.31
31.11	Tons	58.75	1,827.71
29.51	Tons	58.75	1,733.71
30.31	Tons	58.75	1,780.71
30.18	Tons	58.75	1,773.08
32.74	Tons	58.75	1,923.48
30.98	Tons	58.75	1,820.08
28.92	Tons	58.75	1,699.05
27.43	Tons	58.75	1,611.51
32.27	Tons	58.75	1,895.86
30.99	Tons	58.75	1,820.66
32.29	Tons	58.75	1,897.04
31.72	Tons	58.75	1,863.55
30.62	Tons	58.75	1,798.93
32.87	Tons	58.75	1,931.11
25.36	Tons	58.75	1,489.90
32.80	Tons	58.75	1,927.00
30.38	Tons	58.75	1,784.83
31.79	Tons	58.75	1,867.66
29.16	Tons	58.75	1,713.15
29.31	Tons	58.75	1,721.96
28.40	Tons	58.75	1,668.50
25.96	Tons	58.75	1,525.15
32.17	Tons	58.75	1,889.99
28.25	Tons	58.75	1,659.69
27.77	Tons	58.75	1,631.49

Quantity	Units	Rate	Billable Value
28.40	Tons	58.75	1,668.50
32.04	Tons	58.75	1,882.35
33.46	Tons	58.75	1,965.78
32.34	Tons	58.75	1,899.98
29.39	Tons	58.75	1,726.66
31.41	Tons	58.75	1,845.34
30.31	Tons	58.75	1,780.71
32.94	Tons	58.75	1,935.23
28.42	Tons	58.75	1,669.68
30.64	Tons	58.75	1,800.10
28.95	Tons	58.75	1,700.81
29.91	Tons	58.75	1,757.21
33.44	Tons	58.75	1,964.60
31.38	Tons	58.75	1,843.58
34.69	Tons	58.75	2,038.04
32.45	Tons	58.75	1,906.44
34.04	Tons	58.75	1,999.85
33.01	Tons	58.75	1,939.34
32.40	Tons	58.75	1,903.50
32.06	Tons	58.75	1,883.53
31.31	Tons	58.75	1,839.46
31.78	Tons	58.75	1,867.08
30.11	Tons	58.75	1,768.96
32.85	Tons	58.75	1,929.94
31.49	Tons	58.75	1,850.04
34.06	Tons	58.75	2,001.03
33.89	Tons	58.75	1,991.04
30.52	Tons	58.75	1,793.05
30.34	Tons	58.75	1,782.48
32.15	Tons	58.75	1,888.81
31.07	Tons	58.75	1,825.36
31.89	Tons	58.75	1,873.54
33.03	Tons	58.75	1,940.51
33.39	Tons	58.75	1,961.66
29.83	Tons	58.75	1,752.51

Quantity	Units	Rate	Billable Value
29.25	Tons	58.75	1,718.44
30.41	Tons	58.75	1,786.59
30.23	Tons	58.75	1,776.01
33.88	Tons	58.75	1,990.45
29.42	Tons	58.75	1,728.43
31.61	Tons	58.75	1,857.09
27.68	Tons	58.75	1,626.20
30.32	Tons	58.75	1,781.30
30.94	Tons	58.75	1,817.73
30.39	Tons	58.75	1,785.41
31.81	Tons	58.75	1,868.84
31.26	Tons	58.75	1,836.53
33.93	Tons	58.75	1,993.39
28.25	Tons	58.75	1,659.69
29.07	Tons	58.75	1,707.86
31.63	Tons	58.75	1,858.26
31.62	Tons	58.75	1,857.68
32.83	Tons	58.75	1,928.76
32.95	Tons	58.75	1,935.81
29.92	Tons	58.75	1,757.80
29.50	Tons	58.75	1,733.13
31.20	Tons	58.75	1,833.00
31.53	Tons	58.75	1,852.39
29.39	Tons	58.75	1,726.66
31.16	Tons	58.75	1,830.65
30.15	Tons	58.75	1,771.31
26.90	Tons	58.75	1,580.38
30.66	Tons	58.75	1,801.28
29.57	Tons	58.75	1,737.24
28.93	Tons	58.75	1,699.64
28.99	Tons	58.75	1,703.16
28.90	Tons	58.75	1,697.88
30.25	Tons	58.75	1,777.19
29.19	Tons	58.75	1,714.91
29.74	Tons	58.75	1,747.23

Quantity	Units	Rate	Billable Value
30.33	Tons	58.75	1,781.89
26.31	Tons	58.75	1,545.71
28.48	Tons	58.75	1,673.20
27.77	Tons	58.75	1,631.49
28.47	Tons	58.75	1,672.61
28.30	Tons	58.75	1,662.63
28.45	Tons	58.75	1,671.44
30.83	Tons	58.75	1,811.26
31.61	Tons	58.75	1,857.09
33.64	Tons	58.75	1,976.35
30.96	Tons	58.75	1,818.90
28.14	Tons	58.75	1,653.23
31.03	Tons	58.75	1,823.01
31.08	Tons	58.75	1,825.95
31.06	Tons	58.75	1,824.78
32.11	Tons	58.75	1,886.46
28.46	Tons	58.75	1,672.03
29.25	Tons	58.75	1,718.44
29.77	Tons	58.75	1,748.99
29.28	Tons	58.75	1,720.20
29.73	Tons	58.75	1,746.64
30.49	Tons	58.75	1,791.29
28.86	Tons	58.75	1,695.53
26.43	Tons	58.75	1,552.76
29.86	Tons	58.75	1,754.28
30.57	Tons	58.75	1,795.99
32.27	Tons	58.75	1,895.86
32.02	Tons	58.75	1,881.18
29.01	Tons	58.75	1,704.34
33.01	Tons	58.75	1,939.34
33.14	Tons	58.75	1,946.98
30.93	Tons	58.75	1,817.14
30.60	Tons	58.75	1,797.75
32.23	Tons	58.75	1,893.51
31.24	Tons	58.75	1,835.35

Quantity	Units	Rate	Billable Value
26.83	Tons	58.75	1,576.26
25.48	Tons	58.75	1,496.95
26.27	Tons	58.75	1,543.36
31.09	Tons	58.75	1,826.54
28.70	Tons	58.75	1,686.13
29.29	Tons	58.75	1,720.79
30.53	Tons	58.75	1,793.64
31.48	Tons	58.75	1,849.45
28.00	Tons	58.75	1,645.00
30.43	Tons	58.75	1,787.76
31.63	Tons	58.75	1,858.26
31.35	Tons	58.75	1,841.81
31.06	Tons	58.75	1,824.78
29.64	Tons	58.75	1,741.35
32.51	Tons	58.75	1,909.96
30.35	Tons	58.75	1,783.06
29.61	Tons	58.75	1,739.59
29.76	Tons	58.75	1,748.40
29.06	Tons	58.75	1,707.28
30.01	Tons	58.75	1,763.09
32.78	Tons	58.75	1,925.83
31.09	Tons	58.75	1,826.54
30.43	Tons	58.75	1,787.76
31.58	Tons	58.75	1,855.33
31.65	Tons	58.75	1,859.44
32.60	Tons	58.75	1,915.25
30.91	Tons	58.75	1,815.96
29.04	Tons	58.75	1,706.10
31.09	Tons	58.75	1,826.54
30.64	Tons	58.75	1,800.10
30.92	Tons	58.75	1,816.55
31.72	Tons	58.75	1,863.55
31.26	Tons	58.75	1,836.53
33.43	Tons	58.75	1,964.01
31.56	Tons	58.75	1,854.15

Quantity	Units	Rate	Billable Value
32.81	Tons	58.75	1,927.59
32.14	Tons	58.75	1,888.23
33.00	Tons	58.75	1,938.75
31.45	Tons	58.75	1,847.69
31.47	Tons	58.75	1,848.86
32.91	Tons	58.75	1,933.46
32.68	Tons	58.75	1,919.95
32.82	Tons	58.75	1,928.18
30.83	Tons	58.75	1,811.26
32.50	Tons	58.75	1,909.38
32.85	Tons	58.75	1,929.94
31.47	Tons	58.75	1,848.86
31.65	Tons	58.75	1,859.44
31.49	Tons	58.75	1,850.04
29.02	Tons	58.75	1,704.93
29.50	Tons	58.75	1,733.13
31.19	Tons	58.75	1,832.41
32.58	Tons	58.75	1,914.08
30.24	Tons	58.75	1,776.60
30.51	Tons	58.75	1,792.46
32.43	Tons	58.75	1,905.26
30.43	Tons	58.75	1,787.76
31.30	Tons	58.75	1,838.88
30.45	Tons	58.75	1,788.94
31.23	Tons	58.75	1,834.76
30.15	Tons	58.75	1,771.31
30.74	Tons	58.75	1,805.98
30.27	Tons	58.75	1,778.36
30.73	Tons	58.75	1,805.39
31.38	Tons	58.75	1,843.58
31.81	Tons	58.75	1,868.84
31.19	Tons	58.75	1,832.41
29.13	Tons	58.75	1,711.39
29.88	Tons	58.75	1,755.45
28.95	Tons	58.75	1,700.81

Quantity	Units	Rate	Billable Value
29.36	Tons	58.75	1,724.90
32.79	Tons	58.75	1,926.41
31.61	Tons	58.75	1,857.09
29.94	Tons	58.75	1,758.98
30.51	Tons	58.75	1,792.46
30.85	Tons	58.75	1,812.44
30.31	Tons	58.75	1,780.71
33.73	Tons	58.75	1,981.64
32.09	Tons	58.75	1,885.29
31.79	Tons	58.75	1,867.66
30.80	Tons	58.75	1,809.50
32.18	Tons	58.75	1,890.58
30.18	Tons	58.75	1,773.08
31.13	Tons	58.75	1,828.89
31.37	Tons	58.75	1,842.99
31.77	Tons	58.75	1,866.49
28.12	Tons	58.75	1,652.05
31.96	Tons	58.75	1,877.65
29.94	Tons	58.75	1,758.98
32.13	Tons	58.75	1,887.64
32.08	Tons	58.75	1,884.70
35.05	Tons	58.75	2,059.19
33.13	Tons	58.75	1,946.39
29.57	Tons	58.75	1,737.24
29.81	Tons	58.75	1,751.34
31.22	Tons	58.75	1,834.18
31.55	Tons	58.75	1,853.56
28.59	Tons	58.75	1,679.66
26.76	Tons	58.75	1,572.15
33.46	Tons	58.75	1,965.78
29.94	Tons	58.75	1,758.98
29.77	Tons	58.75	1,748.99
30.99	Tons	58.75	1,820.66
31.65	Tons	58.75	1,859.44
29.03	Tons	58.75	1,705.51

Quantity	Units	Rate	Billable Value
29.90	Tons	58.75	1,756.63
29.40	Tons	58.75	1,727.25
32.41	Tons	58.75	1,904.09
32.74	Tons	58.75	1,923.48
30.51	Tons	58.75	1,792.46
31.33	Tons	58.75	1,840.64
26.84	Tons	58.75	1,576.85
30.15	Tons	58.75	1,771.31
30.45	Tons	58.75	1,788.94
31.58	Tons	58.75	1,855.33
32.05	Tons	58.75	1,882.94
30.48	Tons	58.75	1,790.70
28.61	Tons	58.75	1,680.84
27.77	Tons	58.75	1,631.49
34.48	Tons	58.75	2,025.70
32.18	Tons	58.75	1,890.58
27.92	Tons	58.75	1,640.30
27.81	Tons	58.75	1,633.84
28.83	Tons	58.75	1,693.76
31.81	Tons	58.75	1,868.84
31.42	Tons	58.75	1,845.93
29.94	Tons	58.75	1,758.98
29.11	Tons	58.75	1,710.21
28.91	Tons	58.75	1,698.46
33.36	Tons	58.75	1,959.90
33.05	Tons	58.75	1,941.69
30.94	Tons	58.75	1,817.73
27.02	Tons	58.75	1,587.43
28.93	Tons	58.75	1,699.64
33.39	Tons	58.75	1,961.66
32.14	Tons	58.75	1,888.23
27.64	Tons	58.75	1,623.85
27.02	Tons	58.75	1,587.43
30.47	Tons	58.75	1,790.11
33.73	Tons	58.75	1,981.64

Quantity	Units	Rate	Billable Value
32.18	Tons	58.75	1,890.58
31.05	Tons	58.75	1,824.19
31.69	Tons	58.75	1,861.79
31.16	Tons	58.75	1,830.65
30.21	Tons	58.75	1,774.84
31.75	Tons	58.75	1,865.31
27.16	Tons	58.75	1,595.65
33.20	Tons	58.75	1,950.50
30.42	Tons	58.75	1,787.18
30.51	Tons	58.75	1,792.46
30.87	Tons	58.75	1,813.61
33.84	Tons	58.75	1,988.10
31.81	Tons	58.75	1,868.84
27.14	Tons	58.75	1,594.48
29.01	Tons	58.75	1,704.34
28.68	Tons	58.75	1,684.95
30.10	Tons	58.75	1,768.38
29.14	Tons	58.75	1,711.98
31.13	Tons	58.75	1,828.89
29.89	Tons	58.75	1,756.04
30.77	Tons	58.75	1,807.74
30.35	Tons	58.75	1,783.06
29.24	Tons	58.75	1,717.85
31.15	Tons	58.75	1,830.06
32.74	Tons	58.75	1,923.48
31.85	Tons	58.75	1,871.19
32.16	Tons	58.75	1,889.40
30.65	Tons	58.75	1,800.69
28.70	Tons	58.75	1,686.13
32.36	Tons	58.75	1,901.15
32.32	Tons	58.75	1,898.80
30.83	Tons	58.75	1,811.26
32.39	Tons	58.75	1,902.91
29.46	Tons	58.75	1,730.78
30.33	Tons	58.75	1,781.89

Quantity	Units	Rate	Billable Value
32.00	Tons	58.75	1,880.00
31.49	Tons	58.75	1,850.04
30.26	Tons	58.75	1,777.78
30.22	Tons	58.75	1,775.43
30.55	Tons	58.75	1,794.81
32.59	Tons	58.75	1,914.66
31.05	Tons	58.75	1,824.19
23.46	Tons	58.75	1,378.28
31.37	Tons	58.75	1,842.99
31.01	Tons	58.75	1,821.84
31.56	Tons	58.75	1,854.15
30.43	Tons	58.75	1,787.76
30.24	Tons	58.75	1,776.60
32.63	Tons	58.75	1,917.01
30.61	Tons	58.75	1,798.34
30.60	Tons	58.75	1,797.75
30.05	Tons	58.75	1,765.44
30.01	Tons	58.75	1,763.09
30.46	Tons	58.75	1,789.53
29.55	Tons	58.75	1,736.06
30.78	Tons	58.75	1,808.33
30.69	Tons	58.75	1,803.04
32.69	Tons	58.75	1,920.54
31.93	Tons	58.75	1,875.89
30.93	Tons	58.75	1,817.14
31.51	Tons	58.75	1,851.21
34.02	Tons	58.75	1,998.68
31.1	Tons	58.75	1,827.13
29.69	Tons	58.75	1,744.29
30.64	Tons	58.75	1,800.10
6.65	Tons	58.75	390.69
10.27	Tons	58.75	603.36
32.15	Tons	58.75	1,888.81
30.76	Tons	58.75	1,807.15
29.92	Tons	58.75	1,757.80

Quantity	Units	Rate	Billable Value
30.28	Tons	58.75	1,778.95
32.29	Tons	58.75	1,897.04
29.58	Tons	58.75	1,737.83
30.53	Tons	58.75	1,793.64
30.73	Tons	58.75	1,805.39
29.96	Tons	58.75	1,760.15
29.73	Tons	58.75	1,746.64
30.48	Tons	58.75	1,790.70
29.79	Tons	58.75	1,750.16
31.76	Tons	58.75	1,865.90
28.78	Tons	58.75	1,690.83
29.05	Tons	58.75	1,706.69
30.97	Tons	58.75	1,819.49
29.52	Tons	58.75	1,734.30
29.6	Tons	58.75	1,739.00
30.1	Tons	58.75	1,768.38
29.7	Tons	58.75	1,744.88
29.64	Tons	58.75	1,741.35
29.42	Tons	58.75	1,728.43
29.61	Tons	58.75	1,739.59
29.82	Tons	58.75	1,751.93
31.68	Tons	58.75	1,861.20
32.51	Tons	58.75	1,909.96
30.49	Tons	58.75	1,791.29
30.47	Tons	58.75	1,790.11
31.13	Tons	58.75	1,828.89
31.97	Tons	58.75	1,878.24
32.16	Tons	58.75	1,889.40
31.6	Tons	58.75	1,856.50
30.11	Tons	58.75	1,768.96
31.17	Tons	58.75	1,831.24
32.15	Tons	58.75	1,888.81
31.97	Tons	58.75	1,878.24
31.29	Tons	58.75	1,838.29
32.14	Tons	58.75	1,888.23

Quantity	Units	Rate	Billable Value
30.99	Tons	58.75	1,820.66
31.72	Tons	58.75	1,863.55
30.44	Tons	58.75	1,788.35
30.48	Tons	58.75	1,790.70
30.46	Tons	58.75	1,789.53
31.72	Tons	58.75	1,863.55
30.93	Tons	58.75	1,817.14
30.98	Tons	58.75	1,820.08
31.19	Tons	58.75	1,832.41
31.55	Tons	58.75	1,853.56
30.64	Tons	58.75	1,800.10
31.23	Tons	58.75	1,834.76
30.98	Tons	58.75	1,820.08
31.94	Tons	58.75	1,876.48
31.02	Tons	58.75	1,822.43
10.81	Tons	58.75	635.09
30.18	Tons	58.75	1,773.08
32.78	Tons	58.75	1,925.83
30.13	Tons	58.75	1,770.14
31.46	Tons	58.75	1,848.28
31.52	Tons	58.75	1,851.80
32.46	Tons	58.75	1,907.03
32.05	Tons	58.75	1,882.94
30.21	Tons	58.75	1,774.84
30.55	Tons	58.75	1,794.81
32.1	Tons	58.75	1,885.88
9.51	Tons	58.75	558.71
31.35	Tons	58.75	1,841.81
31.49	Tons	58.75	1,850.04
30.65	Tons	58.75	1,800.69
29.46	Tons	58.75	1,730.78
9.89	Tons	58.75	581.04
32.04	Tons	58.75	1,882.35
30.9	Tons	58.75	1,815.38
31.85	Tons	58.75	1,871.19

Quantity	Units	Rate	Billable Value
31.2	Tons	58.75	1,833.00
31.79	Tons	58.75	1,867.66
31.63	Tons	58.75	1,858.26
31.24	Tons	58.75	1,835.35
30.18	Tons	58.75	1,773.08
31.44	Tons	58.75	1,847.10
31.24	Tons	58.75	1,835.35
32.22	Tons	58.75	1,892.93
31.11	Tons	58.75	1,827.71
31.32	Tons	58.75	1,840.05
31.93	Tons	58.75	1,875.89
30.52	Tons	58.75	1,793.05
31.16	Tons	58.75	1,830.65
30.53	Tons	58.75	1,793.64
31.46	Tons	58.75	1,848.28
31.64	Tons	58.75	1,858.85
32.57	Tons	58.75	1,913.49
32.99	Tons	58.75	1,938.16
31.67	Tons	58.75	1,860.61
33.20	Tons	58.75	1,950.50
33.00	Tons	58.75	1,938.75
32.12	Tons	58.75	1,887.05
32.95	Tons	58.75	1,935.81
32.33	Tons	58.75	1,899.39
31.34	Tons	58.75	1,841.23
31.88	Tons	58.75	1,872.95
32.73	Tons	58.75	1,922.89
32.40	Tons	58.75	1,903.50
32.08	Tons	58.75	1,884.70
33.48	Tons	58.75	1,966.95
29.02	Tons	58.75	1,704.93
27.99	Tons	58.75	1,644.41
32.20	Tons	58.75	1,891.75
27.87	Tons	58.75	1,637.36
29.21	Tons	58.75	1,716.09

Quantity	Units	Rate	Billable Value
28.60	Tons	58.75	1,680.25
28.17	Tons	58.75	1,654.99
29.86	Tons	58.75	1,754.28
31.02	Tons	58.75	1,822.43
29.48	Tons	58.75	1,731.95
27.57	Tons	58.75	1,619.74
29.89	Tons	58.75	1,756.04
28.98	Tons	58.75	1,702.58
29.53	Tons	58.75	1,734.89
30.39	Tons	58.75	1,785.41
34.21	Tons	58.75	2,009.84
31.13	Tons	58.75	1,828.89
33.40	Tons	58.75	1,962.25
31.25	Tons	58.75	1,835.94
33.50	Tons	58.75	1,968.13
33.77	Tons	58.75	1,983.99
33.84	Tons	58.75	1,988.10

Tonnage by Day by Location

Year	2015
Mth	(All)
Destination	WASTE MANAGEMENT

Year	2015
Mth	June
Destination	(blank)

Sum of Quantity Row Labels	Column Labels Tons
6/16/2015	90.63
7/8/2015	366.88
7/9/2015	244.70
7/10/2015	232.30
7/13/2015	341.21
7/15/2015	387.57
7/17/2015	410.06
7/20/2015	400.19
7/21/2015	573.38
7/23/2015	655.55
7/24/2015	368.93
7/27/2015	109.82
7/29/2015	1,018.01
7/30/2015	354.12
8/4/2015	647.42
8/11/2015	1,330.28
8/12/2015	910.21
8/13/2015	1,262.22
8/14/2015	453.45
8/17/2015	785.71
8/18/2015	1,218.90
8/19/2015	362.70
8/20/2015	157.78
8/21/2015	312.83
8/24/2015	513.97
8/26/2015	298.48
8/27/2015	176.47
8/28/2015	261.49
Grand Total	14,245.26

Sum of Quantity Row Labels	Column Labels
Grand Total	

APPENDIX F
TEE Exclusion Form



Voluntary Cleanup Program

Washington State Department of Ecology
Toxics Cleanup Program

TERRESTRIAL ECOLOGICAL EVALUATION FORM

Under the Model Toxics Control Act (MTCA), a terrestrial ecological evaluation is necessary if hazardous substances are released into the soils at a Site. In the event of such a release, you must take one of the following three actions as part of your investigation and cleanup of the Site:

1. Document an exclusion from further evaluation using the criteria in WAC 173-340-7491.
2. Conduct a simplified evaluation as set forth in WAC 173-340-7492.
3. Conduct a site-specific evaluation as set forth in WAC 173-340-7493.

When requesting a written opinion under the Voluntary Cleanup Program (VCP), you must complete this form and submit it to the Department of Ecology (Ecology). The form documents the type and results of your evaluation.

Completion of this form is not sufficient to document your evaluation. You still need to document your analysis and the basis for your conclusion in your cleanup plan or report.

If you have questions about how to conduct a terrestrial ecological evaluation, please contact the Ecology site manager assigned to your Site. For additional guidance, please refer to www.ecy.wa.gov/programs/tcp/policies/terrestrial/TEEHome.htm.

Step 1: IDENTIFY HAZARDOUS WASTE SITE

Please identify below the hazardous waste site for which you are documenting an evaluation.

Facility/Site Name:

Facility/Site Address:

Facility/Site No:

VCP Project No.:

Step 2: IDENTIFY EVALUATOR

Please identify below the person who conducted the evaluation and their contact information.

Name:

Title:

Organization:

Mailing address:

City:

State:

Zip code:

Phone:

Fax:

E-mail:

Step 3: DOCUMENT EVALUATION TYPE AND RESULTS

A. Exclusion from further evaluation.

1. Does the Site qualify for an exclusion from further evaluation?

- Yes *If you answered "YES," then answer **Question 2**.*
- No or Unknown *If you answered "NO" or "UNKNOWN," then skip to **Step 3B** of this form.*

2. What is the basis for the exclusion? Check all that apply. Then skip to **Step 4** of this form.

Point of Compliance: WAC 173-340-7491(1)(a)

- All soil contamination is, or will be,* at least 15 feet below the surface.
- All soil contamination is, or will be,* at least 6 feet below the surface (or alternative depth if approved by Ecology), and institutional controls are used to manage remaining contamination.

Barriers to Exposure: WAC 173-340-7491(1)(b)

- All contaminated soil, is or will be,* covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and institutional controls are used to manage remaining contamination.

Undeveloped Land: WAC 173-340-7491(1)(c)

- There is less than 0.25 acres of contiguous# undeveloped± land on or within 500 feet of any area of the Site and any of the following chemicals is present: chlorinated dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene.
- For sites not containing any of the chemicals mentioned above, there is less than 1.5 acres of contiguous# undeveloped± land on or within 500 feet of any area of the Site.

Background Concentrations: WAC 173-340-7491(1)(d)

- Concentrations of hazardous substances in soil do not exceed natural background levels as described in WAC 173-340-200 and 173-340-709.

* An exclusion based on future land use must have a completion date for future development that is acceptable to Ecology.

± "Undeveloped land" is land that is not covered by building, roads, paved areas, or other barriers that would prevent wildlife from feeding on plants, earthworms, insects, or other food in or on the soil.

"Contiguous" undeveloped land is an area of undeveloped land that is not divided into smaller areas of highways, extensive paving, or similar structures that are likely to reduce the potential use of the overall area by wildlife.

B. Simplified evaluation.

1. Does the Site qualify for a simplified evaluation?

- Yes *If you answered "YES," then answer **Question 2** below.*
- No or Unknown *If you answered "NO" or "UNKNOWN," then skip to **Step 3C** of this form.*

2. Did you conduct a simplified evaluation?

- Yes *If you answered "YES," then answer **Question 3** below.*
- No *If you answered "NO," then skip to **Step 3C** of this form.*

3. Was further evaluation necessary?

- Yes *If you answered "YES," then answer **Question 4** below.*
- No *If you answered "NO," then answer **Question 5** below.*

4. If further evaluation was necessary, what did you do?

- Used the concentrations listed in Table 749-2 as cleanup levels. *If so, then skip to **Step 4** of this form.*
- Conducted a site-specific evaluation. *If so, then skip to **Step 3C** of this form.*

5. If no further evaluation was necessary, what was the reason? Check all that apply. Then skip to **Step 4** of this form.

Exposure Analysis: WAC 173-340-7492(2)(a)

- Area of soil contamination at the Site is not more than 350 square feet.
- Current or planned land use makes wildlife exposure unlikely. Used Table 749-1.

Pathway Analysis: WAC 173-340-7492(2)(b)

- No potential exposure pathways from soil contamination to ecological receptors.

Contaminant Analysis: WAC 173-340-7492(2)(c)

- No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations that exceed the values listed in Table 749-2.
- No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations that exceed the values listed in Table 749-2, and institutional controls are used to manage remaining contamination.
- No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays.
- No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays, and institutional controls are used to manage remaining contamination.

C. Site-specific evaluation. A site-specific evaluation process consists of two parts: (1) formulating the problem, and (2) selecting the methods for addressing the identified problem. Both steps require consultation with and approval by Ecology. See WAC 173-340-7493(1)(c).

1. Was there a problem? See WAC 173-340-7493(2).

- Yes *If you answered "YES," then answer **Question 2** below.*
- No *If you answered "NO," then identify the reason here and then skip to **Question 5** below:*
- No issues were identified during the problem formulation step.
 - While issues were identified, those issues were addressed by the cleanup actions for protecting human health.

2. What did you do to resolve the problem? See WAC 173-340-7493(3).

- Used the concentrations listed in Table 749-3 as cleanup levels. *If so, then skip to **Question 5** below.*
- Used one or more of the methods listed in WAC 173-340-7493(3) to evaluate and address the identified problem. *If so, then answer **Questions 3 and 4** below.*

3. If you conducted further site-specific evaluations, what methods did you use?

Check all that apply. See WAC 173-340-7493(3).

- Literature surveys.
- Soil bioassays.
- Wildlife exposure model.
- Biomarkers.
- Site-specific field studies.
- Weight of evidence.
- Other methods approved by Ecology. If so, please specify:

4. What was the result of those evaluations?

- Confirmed there was no problem.
- Confirmed there was a problem and established site-specific cleanup levels.

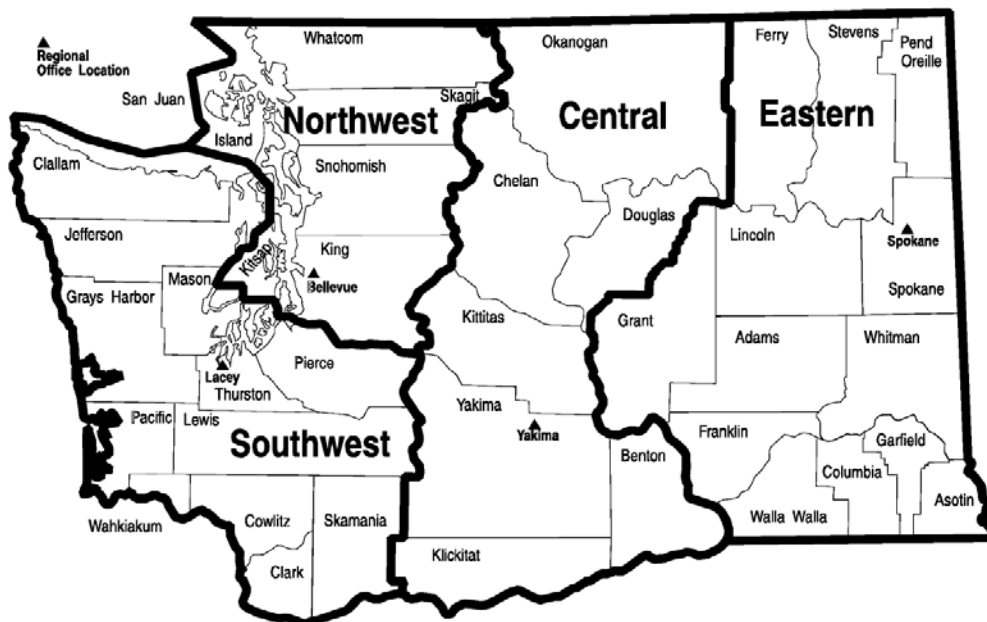
5. Have you already obtained Ecology's approval of both your problem formulation and problem resolution steps?

- Yes If so, please identify the Ecology staff who approved those steps:
- No

Step 4: SUBMITTAL

Please mail your completed form to the Ecology site manager assigned to your Site. If a site manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.

<p>Northwest Region: Attn: VCP Coordinator 3190 160th Ave. SE Bellevue, WA 98008-5452</p>	<p>Central Region: Attn: VCP Coordinator 1250 West Alder St. Union Gap, WA 98903-0009</p>
<p>Southwest Region: Attn: VCP Coordinator P.O. Box 47775 Olympia, WA 98504-7775</p>	<p>Eastern Region: Attn: VCP Coordinator N. 4601 Monroe Spokane WA 99205-1295</p>



APPENDIX G
Report Limitations and Guidelines for Use

APPENDIX G REPORT LIMITATIONS AND GUIDELINES FOR USE¹

This Appendix provides information to help you manage your risks with respect to the use of this report.

Read These Provisions Closely

Some clients, design professionals and contractors may not recognize that the geoscience practices (geotechnical engineering, geology and environmental science) are far less exact than other engineering and natural science disciplines. This lack of understanding can create unrealistic expectations that could lead to disappointments, claims and disputes. GeoEngineers includes these explanatory “limitations” provisions in our reports to help reduce such risks. Please confer with GeoEngineers if you are unclear how these “Report Limitations and Guidelines for Use” apply to your project or site.

Environmental Services Are Performed for Specific Purposes, Persons and Projects

This report has been prepared for the exclusive use of Ninth and Lenora LLC. This report may be provided to regulatory agencies for review. This report is not intended for use by others, and the information contained herein is not applicable to other sites.

GeoEngineers structures our services to meet the specific needs of our clients. For example, an environmental site assessment study conducted for a property owner may not fulfill the needs of a prospective purchaser of the same property. Because each environmental study is unique, each environmental report is unique, prepared solely for the specific client and project site. No one except Ninth and Lenora LLC should rely on this environmental report without first conferring with GeoEngineers. This report should not be applied for any purpose or project except the one originally contemplated.

This Environmental Report Is Based on a Unique Set of Project-Specific Factors

This report has been prepared for excavation activities at the 9th and Lenora development property located at 2101 9th Avenue in Seattle, Washington. GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this project and report. Unless GeoEngineers specifically indicates otherwise, do not rely on this report if it was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

If important changes are made after the date of this report, GeoEngineers should be given the opportunity to review our interpretations and recommendations and provide written modifications or confirmation, as appropriate.

¹ Developed based on material provided by ASFE, Professional Firms Practicing in the Geosciences; www.asfe.org.

Reliance Conditions for Third Parties

Our report was prepared for the exclusive use of Ninth and Lenora LLC. No other party may rely on the product of our services unless we agree in advance to such reliance in writing. This is to provide our firm with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions. Within the limitations of scope, schedule and budget, our services have been executed in accordance with our Agreement with Ninth and Lenora LLC and generally accepted environmental practices in this area at the time this report was prepared.

Environmental Regulations Are Always Evolving

Some substances may be present in the site vicinity in quantities or under conditions that may have led, or may lead, to contamination of the subject site, but are not included in current local, state or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoEngineers cannot be responsible if the standards for appropriate inquiry, or regulatory definitions of hazardous substance, change or if more stringent environmental standards are developed in the future.

Uncertainty May Remain after Completion of Remedial Activities

Remediation activity completed in a portion of a site cannot wholly eliminate uncertainty regarding the potential for contamination in connection with a property. Our interpretation of subsurface conditions in this study is based on field observations and chemical analytical data from widely-spaced sampling locations. It is always possible that contamination exists in areas that were not explored, sampled or analyzed.

Subsurface Conditions Can Change

This environmental report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the site, by new releases of hazardous substances, or by natural events such as floods, earthquakes, slope instability or groundwater fluctuations. Always contact GeoEngineers before applying this report to determine if it is still applicable.

Soil and Groundwater End Use

The cleanup levels referenced in this report are site- and situation-specific. The cleanup levels may not be applicable for other sites or for other on-site uses of the affected media (soil and/or groundwater). Note that hazardous substances may be present in some of the site soil and/or groundwater at detectable concentrations that are less than the referenced cleanup levels. GeoEngineers should be contacted prior to the export of soil or groundwater from the subject site or reuse of the affected media on site to evaluate the potential for associated environmental liabilities. We cannot be responsible for potential environmental liability arising out of the transfer of soil and/or groundwater from the subject site to another location or its reuse on site in instances that we were not aware of or could not control.

Most Environmental Findings Are Professional Opinions

Our interpretations of subsurface conditions are based on field observations and chemical analytical data from widely spaced sampling locations at the site. Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. GeoEngineers reviewed field and laboratory data and then applied our professional judgment to render an opinion about subsurface

conditions throughout the site. Actual subsurface conditions may differ—sometimes significantly—from those indicated in this report. Our report, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.

Geotechnical, Geologic and Geoenvironmental Reports Should Not Be Interchanged

The equipment, techniques and personnel used to perform an environmental study differ significantly from those used to perform a geotechnical or geologic study and vice versa. For that reason, a geotechnical engineering or geologic report does not usually relate any environmental findings, conclusions or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. Similarly, environmental reports are not used to address geotechnical or geologic concerns regarding a specific project.

Biological Pollutants

GeoEngineers' Scope of Work specifically excludes the investigation, detection, prevention or assessment of the presence of Biological Pollutants. Accordingly, this report does not include any interpretations, recommendations, findings, or conclusions regarding the detecting, assessing, preventing or abating of Biological Pollutants and no conclusions or inferences should be drawn regarding Biological Pollutants, as they may relate to this project. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria, and viruses, and/or any of their byproducts.

If Ninth and Lenora LLC desires these specialized services, they should be obtained from a consultant who offers services in this specialized field.

Have we delivered World Class Client Service?

Please let us know by visiting www.geoengineers.com/feedback.

