

**UST System Removal Report
7-Eleven Store No. 25983
3541 Martin Way, Olympia, WA**

Facility Site ID: 5465157
UST Site ID: 8613
LUST ID: 4716



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Sign-off Sheet

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Abbreviations

7-Eleven	7-Eleven, Inc.
bgs	Below ground surface
BTEX	Benzene, toluene, ethyl benzene, and total xylenes
COC	Chain-of-Custody
CUL	Cleanup Level
Ecology	Washington State Department of Ecology
EDB	1,2-Dibromoethane
EDC	1,2-Dichloroethane
EPA	Environmental Protection Agency
ERTS	Environmental Report Tracking System
GTI	Fluor Daniel-GTI
HASP	Health and Safety Plan
ID	Identification
LRLs	Laboratory Reporting Limits
LUST	Leaking Underground Storage Tank
mg/kg	Milligrams per kilograms
MRLs	Method Reporting Limits
MTBE	Methyl tertiary butyl ether
MTCA	Model Toxics Control Act
PCS	Petroleum Contaminated Soils
PID	Photoionization Detector
ppm	Parts Per Million
Qt	Vashon Till
Stantec	Stantec Consulting Services Inc.
SWPPP	Stormwater Pollution Prevention Plan
TPH-G	Total petroleum hydrocarbons as gasoline
UST	Underground Storage Tank
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compound
VPH	Volatile Petroleum Hydrocarbons

1.0 INTRODUCTION

Stantec Consulting Services, Inc. (Stantec) was retained by 7-Eleven, Inc. (7-Eleven) to provide documentation of underground storage tank (UST) system removal at 7-Eleven Store Number 25983 (Subject Property or Site). The Subject Property is located at 3541 Martin Way, Olympia, Washington (*Figures 1 and 2*).

The work was conducted from October 6 through 21, 2014. UST site assessment and remedial excavation activities were conducted in accordance with the Washington State Department of Ecology (Ecology) document "Guidance for Site Checks and Site Assessments for Underground Storage Tanks" [Ecology, February 1991 (revised April 2003)]. Site assessment activities were performed by a certified Washington State Site Assessor (#8196039-U7) as required by Washington Administrative Code 173-360-610.

1.1 PURPOSE AND SCOPE OF WORK

Stantec supervised and observed the removal of three 12,000-gallon, single-wall fiberglass USTs; two dispensers; associated product piping; concrete dispenser island; canopy; and vent risers at the Subject Property. Stantec collected UST closure soil samples to assess subsurface conditions adjacent to and beneath the former USTs, fuel dispensers, and product piping. Stantec's scope of work consisted of the following tasks:

- Preparing a Site-specific Health and Safety Plan (HASP);
- Providing notification to Ecology 30 days prior to UST removal;
- Providing notification to 7-Eleven 10 business days in advance of construction activities;
- Supervising and documenting dispenser island, product piping, and UST decommissioning activities;
- Inspecting USTs, dispensers, and product piping upon removal;
- Collecting confirmation soil samples from the UST excavation, stockpile, and beneath the product lines and dispensers;
- Collecting confirmation soil samples from the dispenser area over-excavation;
- Logging subsurface conditions, field screening soil samples for organic vapors using a photoionization detector (PID), and submitting selected soil samples for laboratory analysis of benzene, toluene, ethyl benzene and total xylenes (collectively BTEX);

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1,2-dibromoethane (EDB); 1,2-dichloroethane (EDC); methyl tertiary butyl ether (MTBE); Naphthalene; total lead; and Total Petroleum Hydrocarbons characterized as Gasoline (TPH-G);

- Field screening and collecting samples from soil stockpiles;
- Removal and disposal of petroleum-contaminated soil (PCS);
- Preparing subgrade and placing asphalt to match existing; and,
- Preparing this report documenting UST removal activities and site restoration.

1.2 SUBJECT PROPERTY BACKGROUND

The Subject Property is an active 7-Eleven convenience store with former retail sales of gasoline. According to Ecology records, installation of the three 12,000-gallon, single-wall fiberglass USTs was completed in 1984. According to available records, diesel fuel has not been stored at the Subject Property in the past.

In June 1995, McCon Building and Petroleum Services, Inc. of Vancouver, Washington, conducted a product piping upgrade at the Site. During the upgrade activities, Fluor Daniel-GTI (GTI) personnel collected soil samples from the tank pit, dispenser area, and stockpiled soils. Concentrations of benzene and lead were not detected above respective project laboratory method reporting limits (MRLs) in the submitted soil samples. However, soil samples D-1 and D-2, which were collected from beneath the pump dispenser island, contained concentrations of TPH-G exceeding the Model Toxics Control Act (MTCA) Method A Cleanup Level (CUL). Furthermore, concentrations of toluene, ethyl benzene, and total xylenes were reported exceeding respective MTCA Method A CULs in soil sample D-2.

In September 1997, during an upgrade of the UST system, GTI conducted a limited site assessment that included soil sampling. Petroleum hydrocarbons were not reported exceeding respective MTCA Method A CULs in soil samples D-1, D-2, FP-1, and PL-1.

In June 1999, IT Corporation advanced four onsite soil borings in the area of the UST system. The soil borings were completed as groundwater monitoring wells MW-1, MW-2, MW-3, and MW-4. Soil analytical results derived from the investigation indicated that the concentrations of BTEX and TPH-G were not detected above MRLs in any of the submitted soil samples. Dissolved concentrations of TPH-G and benzene were reported above MTCA Method A CULs in source area monitoring well MW-4.

In June 2001, IT Corporation personnel installed one offsite monitoring well (MW-5) west of the property in the down-gradient direction. Benzene and TPH-G were not reported above respective MRLs or MTCA Method A CULs in the soil samples collected from MW-5. Dissolved

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concentrations of total xylenes were reported below the MTCA Method A CUL in the groundwater sample collected from monitoring well MW-5 in August 2001.

In May 2002, IT Corporation conducted an additional subsurface assessment to further define the extent of petroleum-impacted soil and groundwater beneath the Site. The direct-push investigation included advancing three soil boreholes to total depths ranging from approximately 20- to 30-feet below ground surface (bgs). One "grab" groundwater sample was collected from soil borehole GP-4, located northwest of the UST system. Concentrations of BTEX and TPH-G were reported above MTCA Method A CULs in the soil sample collected from borehole GP-1 at a depth of 15-feet bgs. Dissolved petroleum hydrocarbon concentrations were not reported exceeding MTCA method A CULs in the groundwater sample collected from the borehole GP-4, located northwest of the UST System.

In August 2009, Stantec advanced eight boreholes (SB-1 through SB-8) to depths ranging from approximately 16- to 32-feet bgs. Petroleum hydrocarbon constituents were detected exceeding MTCA CULs in the soil samples collected from boreholes SB-3, SB-4, and SB-5. Additionally, TPH-G and total xylenes were detected above MTCA Method A CULs in the groundwater sample collected from borehole SB-3.

Groundwater monitoring results from the most recent sampling event on September 23, 2014 confirm that, since 2007, dissolved petroleum hydrocarbons in onsite wells have attenuated to levels below MTCA Method A CULs. Following the September 2014 sampling event, monitoring wells MW-4 and MW-1 were abandoned by a licensed driller in preparation for UST removal activities.

1.3 REGULATORY STATUS

Stantec reviewed Ecology's electronic databases regarding the regulatory status of the Subject Property. As of October 2014, the Site was included in Ecology UST, Leaking Underground Storage Tank (LUST), and Voluntary Cleanup Program (VCP) lists. Ecology identification numbers (IDs) for the Site are summarized below.

Facility Number: 5465157
UST Site ID: 8613
Cleanup Site ID: 5366
LUST Release ID: 4716
Historic Release ID: 434495
VCP ID: SW1029 (Former)

2.0 FACILITY DESCRIPTION

2.1 SITE LOCATION

The Subject Property is located at 3541 Martin Way, Olympia, Washington at the southwest corner of the intersection of Martin Way E and Lilly Road NE in an area of primarily commercial development (*Figure 2*). The property consists of three tax parcels (No. 99000990600, 99002058812, and 9900020100) with a combined area of approximately 150,000 square feet.

2.2 SITE DESCRIPTION

The Subject Property is an active 7-Eleven branded convenience store with former retail sales of gasoline. The former gasoline distribution system, installed in 1984, consisted of three 12,000-gallon, single-wall fiberglass USTs; two fuel dispensers covered by a canopy; and associated underground piping. Following UST system removal, the 7-Eleven store will continue to operate as a convenience store.

The 7-Eleven store occupies the southeastern-most portion of a multi-unit commercial development (connected structures) that extends north to south along the eastern boundary of the Site. The fuel canopy, dispenser islands, and USTs were previously located directly north of the 7-Eleven store (*Figure 2*).

The Subject Property and adjacent areas are paved with asphalt and concrete. A storm water catch basin is located in the southeast corner of the 7-Eleven parking area (approximately 60 feet north of the former location of the USTs). The topography of the Subject Property generally slopes toward this catch basin. An additional catch basin, located in the southeast corner of the canopy area, was removed during UST removal activities. Landscaped areas with local vegetation are located along the northern and eastern margins of the Subject Property and throughout the parking lot.

2.3 SURROUNDING LAND USE

The Subject Property is located in the Sunshine Plaza bordered to the north by Martin Way. Lilly Road borders the Site to the east and is followed by commercial businesses. Park Manor Strip Mall is situated to the north of the Site, across Northwest Avenue. The Site is bordered to the south by a private residential property. The Site is bordered to the west by an International House of Pancakes® restaurant parking lot (*Figure 2*).

2.4 REGIONAL SETTING AND GEOLOGY SURROUNDING LAND USE

2.4.1 Regional Setting

The Subject Property is located at approximately 200-feet above mean sea level. The local topography is characterized by gentle hills with a relatively flat plain that increases to the west toward the Olympic Mountains, which are located approximately six miles west of the Site. Woodward Creek, located approximately 1,000 feet to the west, is the closest surface water body to the Subject Property. Woodward Creek ultimately discharges to Woodward Bay and the Puget Sound waterway, which lies approximately two miles north of the Site.

The Site is located on a composite of artificial fill and glacial outwash alluvial deposits. The glacial deposits are Vashon Till (Qt), a member of the Pleistocene Vashon Drift sediments, deposited during the latest episode of glaciation in the Puget Sound region. The Qt varies in thickness from a few feet to 150-feet thick. It is comprised of gravelly, sandy silt to silty sand with varied quantities of clay, cobbles, and boulders. Local lenses of sand and gravel containing pockets of perched groundwater are common. Generally, permeability of these types of sediments is extremely low, except in the sand and gravel lenses.

The soils encountered beneath the Site during excavation operations were identified as gravelly sand overlaying poorly graded gravel with silty layer between approximately 15- to 16-feet bgs. Saturated soils were encountered at 26-feet bgs.

3.0 FIELD ACTIVITIES

3.1 GROUNDWATER MONITORING AND SAMPLING ACTIVITIES

In accordance with Section 5.3 of "Guidance for Site Checks and Site Assessments for Underground Storage Tanks," groundwater samples must be collected during a site assessment when existing monitoring wells are already located on the Site. Monitoring wells were selected to allow for the collection of representative groundwater samples to assess current groundwater conditions. This report presents un-submitted second and third quarter 2015 groundwater data from all five on-Site wells.

3.1.1 Groundwater Flow Direction and Gradient

The second quarter 2014 and third quarter 2014 groundwater monitoring and sampling events were conducted at the Site on April 8, 2014 and September 23, 2014. The approximate depth to groundwater encountered during the third quarter event ranged from approximately 26.65-feet below top of casing (TOC) in monitoring well MW-5 to 25.81-feet below TOC in monitoring well MW-3. During each monitoring and sampling event, the groundwater flow direction was generally to the west with an average hydraulic gradient of approximately 0.011 vertical feet per horizontal foot (ft/ft) on April 8, 2014 and 0.005 ft/ft on September 23, 2014. A groundwater contour map and a rose diagram representing the historical groundwater flow direction are also included on *Figure 4*.

3.1.2 Groundwater Analytical Methods

Groundwater samples were collected from four monitoring wells (MW-1, MW-2, MW-3, MW-4, and MW-5) on April 8, 2014 and September 23, 2014, respectively. Groundwater was purged using a bailer and collected directly into uniquely identified, laboratory-prepared sample containers. The sample containers were immediately placed into an iced cooler pending transport to the analytical laboratory. Environmental Protection Agency (EPA) recommended protocols for sample management, including chain-of-custody documentation, were observed during sampling activities. Stantec's purging and sampling procedures and groundwater monitoring and sampling field data sheets are included in **Appendix A**. All groundwater samples collected during the both sampling events were submitted to Fremont Analytical, Inc. (Fremont) for analysis of BTEX by Method 8260 and TPH-G by Ecology Method Northwest Total Petroleum Hydrocarbons as Gasoline (NWTPH-Gx). Laboratory analytical results are provided in **Appendix B**.

3.1.3 Groundwater Analytical Results

Laboratory results from samples collected from all on-Site monitoring wells from both second and third quarters 2014 indicated that dissolved concentrations of TPH-G and BTEX were below MTCA Method A CULs. Furthermore, there has not been a detection of dissolved petroleum hydrocarbon constituents above MTCA Method A CULs from any on-Site well since 2007. Groundwater analytical results are presented in *Table 1* and shown on *Figure 5*.

3.2 MONITORING WELL DECOMMISSIONING ACTIVITIES

On September 2, 2014, Stantec contracted and supervised as Environmental Service Network Northwest (ESN Northwest) of Olympia, Washington decommissioned wells MW-1 and MW-4 by backfilling with bentonite chips in accordance with Ecology Abandonment Procedures (WAC 332-17-310). The wells were decommissioned because of their anticipated close proximity to the excavation boundaries. ESN Northwest well logs documenting the well decommissioning are provided in *Appendix B*.

3.3 UST REMOVAL ACTIVITIES

Stantec contracted Saybr Construction, Inc. (Saybr) of Tacoma, Washington to remove the three 12,000-gallon, single-wall fiberglass USTs and ancillary equipment at the Subject Property. Stantec obtained City permits (*Appendix C*) for removal of the UST system and canopy demolition and submitted a construction storm water pollution prevention plan (SWPPP) to the City of Olympia before initiating UST system removal activities. Stantec also submitted a 30-day Notice of UST closure to Ecology on August 25, 2014 (*Appendix D*). The USTs were emptied by 7-Eleven. The Northwest Utility Notification Center (1-800-454-5555) and Applied Professional Services were contacted to determine the presence and location of underground utilities. Prior to excavation activities, electrical service to the dispenser island and USTs was isolated and removed by a 7-Eleven contracted certified electrician.

Stantec prepared a HASP before implementing on-Site work. The HASP identified potential physical and chemical hazards associated with the proposed field activities and established personal protection standards and mandatory safety practices. The HASP also included information on suspected chemical compounds to be encountered, a list of monitoring equipment, the required protective clothing and equipment, a map and directions to the nearest hospital, and a list of emergency telephone numbers. The HASP was kept on-Site and available at all times during the field activities. Stantec personnel and all subcontractors working at the Subject Property were required to review, sign, and comply with the provisions set forth in the HASP.

On-site activities began on October 6, 2014, with the installation of the perimeter fence and removal of the canopy over the dispenser island. Following removal of the canopy structure,

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concrete surrounding the dispenser island and asphalt covering the UST basin were removed. The storm water catch basin located to the southeast of the excavation area was covered with a temporary geotextile filter to prevent soil and sediment from entering the storm water system during construction activities per the SWPPP.

On October 7, 2014, the USTs were rendered inert by a certified marine chemist. The remaining fuel product was pumped, and the USTs were triple-rinsed. Approximately 1,200 gallons of rinse water and 100 gallons of sludge were removed from the two USTs by Marine Vacuum, Inc. of Seattle, Washington, and transported to a permitted hazardous waste treatment and disposal facility. Waste disposal documentation is provided in **Appendix E**.

Testing with a portable multi-gas detector equipped with a lower-explosive limit meter confirmed that the organic vapor levels in the USTs were safe prior to their removal.

On October 8, 2014, Stantec observed removal of the three 12,000-gallon, single-walled fiberglass USTs at the Subject Property. The western UST was removed first and staged beside the excavation for inspection. Upon exposure and visual inspection, the UST appeared to be in overall good condition and no apparent failures were observed. The fiberglass UST was then crushed with the excavator, and the fiberglass fragments were loaded into a waste disposal unit. The middle and eastern USTs could not be removed in one piece. The inside of each tank was visually inspected before each was crushed in-place. Fiberglass fragments were individually removed and placed in the disposal unit.

A copy of the certificate of disposal from Saybr is included in **Appendix E**. The Ecology Underground Storage Tank Site Check/Site Assessment Checklist is included in **Appendix D**.

3.4 FIELD SCREENING

Field screening consisted of visual observations of potential hydrocarbon impacts and headspace analysis for volatile organic compound (VOC) vapors. Overburden material removed from the UST and dispenser island excavation was screened for organic vapors with a MiniRae, Inc., Organic Vapor Meter PID. A sample of the soil matrix was placed in a re-sealable plastic bag and allowed to equilibrate for approximately 10 minutes. The probe of the PID was used to pierce the plastic and extended into the headspace above the soil surface. The highest vapor reading obtained during the next 60 seconds was then recorded. Prior to use, the PID was calibrated to a known concentration of isobutylene, in accordance with the manufacturer's specifications.

A hydrocarbon odor was encountered in soils removed from below the dispenser islands. PID readings of these soils indicated VOC readings of approximately 2,176 parts per million (ppm) at its highest. From this area, contaminated soil from approximately 15- to 25-feet bgs was removed and sampled as it was excavated from beneath the UST basin and westward towards

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MW-5. The soil was stockpiled separately on visqueen in accordance with the Site's SWPPP. A discussion of remedial excavation is presented in **Section 4.0**.

3.5 SOIL SAMPLING ACTIVITIES

During excavation activities, Stantec personnel collected soil samples from beneath each UST, the four excavation sidewalls, beneath the dispenser island and product lines, and canopy footing in accordance with published EPA and Ecology guidelines. Additional samples were taken at the furthest boundaries of the excavation during the remedial excavation activities. Maximum depth of the excavation was 26-feet bgs. Sampling was conducted at locations associated with noticeable petroleum odors and elevated headspace vapor PID concentration measurements. Samples taken from the sidewalls and base of the excavation for field screening purposes were collected on an approximate 10-foot by 10-foot horizontal grid when possible. Soil samples from the UST excavation were collected from the excavator bucket due to safety concerns.

During UST Site Assessment activities, Stantec personnel collected soil samples from the four sidewalls of the UST basin: West Wall@8', East Wall@10', North Wall@9', and South Wall@10'; the base of each UST: West Tank@13', Mid Tank@13', East Tank@12'; beneath each dispenser: DIW@5' and DIE@5'; and the product line corridor between the UST and dispenser area: PL@3'. Stantec also collected three samples from the excavated UST overburden clean soil stockpile: CSP-1, CSP-2, and CSP-3. Additional confirmation soil samples were collected as part of the remedial excavation performed in the dispenser island area, the UST basin area, and the area west of the UST basin. Six soil samples were taken from the separately staged contaminated stockpile: DSP-1 through DSP-6. The remedial excavation activities are discussed in **Section 4.0**.

Soil samples submitted for laboratory analysis were collected in accordance with EPA Method 5035A – using a syringe-type sampler to obtain approximately five grams of soil from the desired sample location. The samples were then placed directly into pre-weighed, methanol preserved 40-milliliter vials (supplied by the analytical laboratory). Additional soil was collected by hand and placed directly into clean 4-ounce glass jars. A clean, disposable glove was used for each sample. Care was taken to obtain representative soil samples and to place the soils directly and quickly into the sample container to minimize loss of volatile constituents. Each jar was completely filled to minimize headspace and sealed with a Teflon™ lined screw cap. Each sample was then uniquely labeled (i.e., soil sample name with depth type of analysis, date, and time of sampling), and placed on ice in a cooler.

3.6 SUBSURFACE CONDITIONS

During UST removal activities, Stantec encountered approximately three to four inches of asphalt underlain by sand and gravel mixtures with one small (roughly one foot in thickness) silt and sand

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layer at approximately 15-feet bgs. The sand and gravel mixtures extended from the base of the asphalt to the maximum depth (26-feet bgs) excavated during the UST system removal.

During UST closure activities, groundwater was encountered at 25-feet bgs. The water level did not interfere with soil sampling during the UST Site Assessment or backfilling the excavation. A small perched zone of groundwater was encountered in the area to the west of the UST basin, below the landscaping peninsula which formerly separated the UST basin from additional parking to the west. This perched zone was located above a lens of silty sand located at approximately 16-feet bgs. During the 2009 subsurface assessment, the perched zone was sampled by using a temporary well; and the sampled groundwater was found to be contaminated. Because MW-5, located approximately 10 feet to the west remains clean, this perched zone is believed to be the cause for localized PCS in that area. The PCS does not appear to extend further west beyond several feet.

3.7 SOIL ANALYTICAL METHODS

A total of 48 soil samples were collected during the UST system removal and remedial excavation activities. Samples were delivered under chain-of-custody to Fremont for analysis of TPH-G by Method NWTPH-Gx, BTEX by EPA Method 8260B, and total lead by EPA Method 6020. Soil samples North Wall@16', North Wall@18', and South Wall@18' were submitted to ESN Northwest on same-day turnaround-time due to elevated PID readings, the presence of hydrocarbon odor, and proximity to the limits of the excavation to the north.

Selected samples exhibiting the highest PID readings were submitted for additional analysis of EDB, EDC and MTBE by EPA Method 8260C, Naphthalene by EPA Method 8270 SIM, and Volatile Petroleum Hydrocarbons (VPH) by EPA Method NWVPH. Method B Cleanup Levels will be developed in a future report.

Analytical results for soil samples from the UST closure activities are summarized in **Table 2A and 2B** and presented on **Figure 3**. Complete laboratory results and chain-of-custody documentation are included in **Appendix B**. Soil analytical results and soil disposal are discussed in **Section 4.0**.

4.0 REMEDIAL ACTIONS AND CONFIRMATION SAMPLING

4.1 REMEDIAL EXCAVATION

Subsequent to the UST removal activities, soil located below the former dispenser island, UST basin, and adjacent areas were excavated to remove the horizontal and vertical extent of PCS. Soil impacts were first identified beneath the dispenser island at a depth of approximately 15-foot bgs. Excavated soil was screened periodically and stockpiled on visqueen (separately from the clean overburden stockpile) pending receipt of analytical results prior to disposal.

Impacted soil from an approximately 15 feet by 15 feet area surrounding the dispenser island was initially removed to a depth of 15-foot bgs and stockpiled. The soil from the base and sidewalls was screened and visually inspected for petroleum impacts and confirmation samples were collected. Based on the elevated PID readings, petroleum odor and discoloration, additional soil was removed from the base and sidewalls of the excavation.

The excavation was extended to a depth of 26-foot bgs and widened to approximately 30 feet by 30 feet. An additional round of confirmation samples was collected from the sidewalls at depths of between 16- and 24-foot bgs and from the base at 26-foot bgs. Based on field screenings, the excavation was extended to the east, south, and west. The excavation was extended to the north until proximity to a utility corridor prevented further excavation in that area.

During excavation of the dispenser area, the former UST basin area was used as a safety platform and embankment (at approximately 13-foot bgs) for the excavator to remove soil and samples from the deepest areas of the dispenser area excavation. Following remedial excavation activities in this area, clean soil was used as backfill to approximately 15-foot bgs. This area was then used as a platform for the excavator during remedial excavation of the former UST basin.

The former UST basin was cleared of PCS from approximate depths of 16- to 24-foot bgs. In the former UST basin, PCS was removed as far north and south as safety constraints would allow. This area of the excavation extended laterally approximately 40 feet by 40 feet. Upon completion of this section, clean overburden was used to backfill the excavation to approximately 16-foot bgs. This area was then used as a platform for the excavator to continue excavating toward the west.

The western excavation extended to depths between approximately 17- to 23-foot bgs until clean confirmation samples were taken at vertical extents. Lateral presences of PCS extending to the north, west, and south remain non-delineated. Directly north of this area, a utility pole

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created safety concerns which limited excavation in that direction. This section has an approximate perimeter of 100 feet.

Once excavation was completed, and all areas were backfilled with clean stockpiled soil to approximately 16-feet bgs, Saybr began importing clean fill material, which was compacted in sections until ground level was reached.

4.2 SOIL ANALYTICAL RESULTS

4.2.1 UST Assessment Area

Within the UST assessment area, several soil samples exhibited analytical concentrations exceeding respective MTCA Method A CULs. The following soil samples collected from the UST excavation were reported above laboratory reporting limits (LRLs) or method reporting limits (MRLs):

for **TPH-G**: West-Tank@13', East-Wall@17', North Wall@16', and South Wall@18'.

All reported concentrations of BTEX and total lead in soil samples were below respective minimum reporting limits.

The three wall samples (East-Wall@17', North Wall@16', and South Wall@18') that remain onsite as excavation limits to both the north and south were chose based on wall stability and Site safety concerns. Excavation proximity to a corridor of utilities bordering the north edge of Site prevented further excavation to the north.

A confirmation sample reported below LRLs or MRLs was taken at the bottom of this excavation area (CSS-8@25') after removal of PCS from the former UST basin area.

4.2.2 Dispenser Assessment Area

Following removal of the concrete footing of the former canopy, petroleum odors and elevated PID readings were observed in the soil located below and adjacent to the former dispensers at depths of approximately 15- feet bgs to 24- feet bgs. The following soil samples contained analytical concentrations reported above respective MTCA Method A CULs:

for **TPH-G**: DI@20', SS-1@20', SS-3@15', and SS-4@18'

All reported concentrations of BTEX and total lead in soil samples for this area were below respective MRLs. The PCS from which the soil sample SS-3@15' was collected remains onsite.

Confirmation samples reported below LRLs or MRLs were taken at the bottom of this excavation area, along the eastern wall, southern wall, and northeastern corner.

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4.2.3 Western Excavation Area

Several soil samples, collected within the area to the west of the former UST basin, exhibited analytical concentrations exceeding respective MTCA Method A CULs. The following soil samples collected from the Western Assessment Area were reported above LRLs or MRLs:

for **TPH-G**: SB-3@16', and CSS-6@18'

All reported concentrations of BTEX and total lead in soil samples in this area were below respective MRLs. The two samples remain onsite.

Confirmation samples (CSS-7@23', CSS-9@15', CSS-10@16', and SB-3@17'), taken at the bottom of this excavation area, were reported below LRLs or MRLs. The PCS from which the two soil samples SB-3@16' and CSS-6@18' were collected remains onsite.

North and south excavation limits were determined based on wall stability and Site safety concerns. Excavation proximity to a utility pole directly north of this area prevented further excavation in that direction.

4.3 SOIL DISPOSAL

Soil with elevated PID readings or olfactory indications of petroleum contamination was stockpiled separately on visqueen, and six samples (DSP-1 through DSP-6) were collected before final disposal. Approximately 1,393 tons of PCS was removed from the site, of which, approximately 236 tons were transported to Regional Disposal Intermodal in Seattle and disposed of at the Rabanco/Allied Waste Landfill in Roosevelt, WA. The remaining 1,157 tons of PCS was transported to the Cowlitz County Landfill (formerly Weyerhaeuser) in Castle Rock, WA. The Waste Management waste profile and soil disposal tickets are included in **Appendix E**.

4.4 CONFIRMATION SOIL SAMPLING

Confirmation sampling indicates that the most heavily impacted PCS was removed during the remedial excavation. Excavation to the north of the Site was limited due to underground utilities and safety concerns at the Site.

The area with the highest TPH-G concentrations was the Western Excavation Area.

Stantec observed that the soil approximately one to four feet directly beneath the three USTs was clean. Each of the three USTs were observed prior to destruction. No damage was observed. The product line was also observed to be in good condition and no contamination was found.

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A total of 23 confirmation soil samples were collected during the remedial excavation. Analytical results for the remedial excavation soil samples are summarized in **Table 2a**. The table indicates which areas were excavated and which samples represent final limit samples of material remaining in place following the remedial excavation. The lateral extent of the excavation is illustrated in **Figure 3**.

The source of contamination is believed to be the release near the dispenser island, reported in 1995. The approximate water table location is at 25-feet bgs and has a generally westward flow gradient. This evidence suggests that the contamination plume traveled directly downward from its source area until it reached groundwater, where it migrated westward beneath the UST basin area. Confirmation soil samples collected along the outer boundary of the PCS indicate that the surrounding soil has naturally attenuated below MTCA Method A CULs.

As discussed briefly in **Section 3.4**, the Western Excavation Area contains a small perched zone of groundwater directly below the landscaping peninsula that divides the former UST area from additional parking to the west. In this area, samples from the SB-3 location have been affected and contain PCS at the approximate depth of the observed perch zone (16-feet bgs). The perched zone consists of a lens of silty sand containing saturated soils above, but not below. Because MW-5, located approximately 10 feet to the west, remains clean, this perched zone is believed to be the cause of localized PCS in that area. This will be discussed further in a subsequent Cleanup Action Report.

4.5 CONFIRMATION SOIL ANALYTICAL RESULTS

Of the 23 confirmation samples representing the final limits of the excavation, five have TPH-G concentrations above the Method A CUL of 30 milligrams per kilogram (mg/kg). Samples South Wall@ 18', CSS-6@18', CSS-7@23', CSS-9@16', and CSS-10@16' were submitted for additional analyses including VPH, EDB, EDC, Naphthalenes, and MTBE to calculate a Site-specific MTCA Method B CUL for the Site. Results of the VPH analysis and calculation of the Method B CUL are pending and will be reported in a subsequent Cleanup Action Report. Complete laboratory results and chain-of-custody documentation are included in **Appendix B**.

4.6 SUBJECT PROPERTY RESTORATION

The UST and dispenser island areas were backfilled with clean overburden and imported fill material following collection of all confirmation soil samples. Soil excavated from the former UST area was determined to be clean by laboratory analysis and used as backfill in the base at the UST basin. Type 17 fill was placed over the clean overburden. The backfill material was replaced in lifts and compacted using a backhoe. To confirm proper soil compaction, periodic geotechnical testing was conducted in all areas by Materials Testing and Consulting, Inc. of Olympia, Washington. Compaction test reports are included in **Appendix F**.

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The excavations were backfilled with Type 17 fill to approximately eight inches bgs and top dressed with a four-inch layer of 5/8 inch crushed rock in preparation for repaving with asphalt. All areas were re-paved with a four-inch thick layer of asphalt on October 21, 2014. Pavement striping is to be conducted by Facilities Maintenance following the completion of the project. The perimeter fence was removed from the site on October 22, 2014.

5.0 SUMMARY AND CONCLUSIONS

Three 12,000-gallon, single-wall fiberglass USTs; associated product piping; concrete dispenser island; and canopy were closed by removal at the Subject Property from October 6 through October 21, 2014. Based on field observations and analytical data, Stantec concludes the following:

- Upon visual inspection, the USTs and the fiberglass product lines appeared to be in good condition with no apparent failures observed;
- Elevated PID readings and petroleum odor were observed in the area beneath the site at depths of approximately 15-feet bgs to 25-feet bgs;
- A total of approximately 1,393 tons of PCS was removed from the Subject Property and transported off-Site for disposal at the Rabanco/Allied Waste Landfill in Roosevelt, WA, and the Cowlitz County Landfill (formerly Weyerhaeuser) in Castle Rock, WA;
- Groundwater was encountered during remedial excavation activities at an approximate depth of 25-feet bgs. A small perched zone was encountered to the west of the UST basin at approximately 16-feet bgs, and is believed to be the cause of PCS located in that area. Analytical results from all five groundwater monitoring wells were reported below Method A CULs and have been for over seven years;
- With the exception of a detected concentration of TPH-G (14 mg/kg) in five of the confirmation soil samples, all of the other confirmation soil samples collected from the former UST assessment area had no detectable concentrations of TPH-G, BTEX, or total lead; and,
- The excavated area was backfilled with clean, imported 1.5-inch minus fill material. The fill was compacted to meet ASTM D1557 standards and the excavated area was resurfaced to match existing asphalt, including curbing and a speed bump that was partially destroyed during UST removal activities.

Based on the results of this investigation, Stantec plans to submit a future Cleanup Action Report that will include a site closure argument based upon an established Site-specific Method B CUL for TPH-G and will formally request a No Further Action determination for the Subject Property.

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REFERENCES
January 6, 2015

6.0 REFERENCES

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TABLES
UST SYSTEM REMOVAL REPORT
7-ELEVEN STORE NO. 25983

January 6, 2015

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store No. 25983
3541 Martin Way East, Olympia, Washington
All results in micrograms per liter (µg/L), except where noted.

Well ID (TOC)	Sample Date	MtBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	EDC	EDB	Total Lead	Depth To Groundwater	Groundwater Elevation (feet)
MW-1	07/08/99	--	--	--	--	--	--	--	--	--	26.00	172.33
198.33	07/15/99	--	<0.3	<0.3	<0.5	<0.6	<100	--	--	<5	26.02	172.31
	03/14/00	--	<0.3	<0.3	<0.5	<0.6	<100	--	--	--	25.38	172.95
	06/27/00	--	<0.5	<0.5	<0.5	<1.0	<100	--	--	--	25.97	172.36
	09/25/00	--	<0.5	2.90	0.56	2.8	100	--	--	--	26.52	171.81
	11/13/00	--	<0.5	<0.5	<0.5	<1.5	<100	--	--	--	26.30	172.03
	02/14/01	--	<0.5	<0.5	0.56 ^a	<1.0	<100	--	--	--	26.09	172.24
	06/07/01	--	<0.5	<0.5	<0.5	<1.0	<100	--	--	--	26.13	172.20
	08/01/01	--	<0.5	<0.5	<0.5	<1.0	<50	--	--	--	26.29	172.04
	11/15/01	--	<0.5	<0.5	<0.5	<1.0	<100	--	--	--	26.36	171.97
	03/25/02	--	<0.5	<1.0	<1.0	<3.0	<100	--	--	--	25.34	172.99
	06/21/02	--	--	--	--	--	--	--	--	--	--	--
	09/23/02	--	<0.5	<1.0	<1.0	1.01	<100	--	--	--	26.20	172.13
	12/10/02	--	--	--	--	--	--	--	--	--	26.37	171.96
	04/02/03	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	25.41	172.92
	06/11/03	--	--	--	--	--	--	--	--	--	26.05	172.28
	09/15/03	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	27.34	170.99
	12/04/03	--	--	--	--	--	--	--	--	--	25.51	172.82
	03/04/04	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.64	171.69
	05/10/04	--	--	--	--	--	--	--	--	--	27.02	171.31
	08/11/04	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	27.27	171.06
	11/17/04	--	--	--	--	--	--	--	--	--	27.16	171.17
	02/21/05	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.94	171.39
	05/16/05	--	--	--	--	--	--	--	--	--	28.96	169.37
	08/19/05	--	--	--	--	--	--	--	--	--	27.03	171.30
	10/26/05	--	--	--	--	--	--	--	--	--	27.16	171.17
	01/26/06	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	25.79	172.54
	05/11/06	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--
	07/26/06	--	--	--	--	--	--	--	--	--	--	--
	11/09/06	--	--	--	--	--	--	--	--	--	24.18	174.15
	04/11/07	--	--	--	--	--	--	--	--	--	25.36	172.97
	08/27/07	--	--	--	--	--	--	--	--	--	26.15	172.18
	02/06/08	--	--	--	--	--	--	--	--	--	26.35	171.98
	08/18/08	--	--	--	--	--	--	--	--	--	25.05	173.28
	11/12/08	--	--	--	--	--	--	--	--	--	24.28	174.05
	02/05/09	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	25.56	172.77
	01/12/10	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	25.30	173.03
	02/14/11	--	<0.5	<0.5	<0.5	<0.5	<250	--	--	--	25.48	172.85
	02/09/12	--	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	25.23	173.10
	01/18/13	--	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	24.51	173.82
	04/08/14	<1.00	<1.00	<1.00	<1.00	<2.00	<50.0	<1.00	<0.00922	1.77	25.25	173.08
	09/23/14	<1.00	<1.00	<1.00	<1.00	<2.00	<50.0	--	--	--	26.14	172.19
MTCA Method A Cleanup Level		20	5	1,000	700	1,000	800/1,000^b	5	0.01	15		

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Well ID (TOC)	Sample Date	MtBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	EDC	EDB	Total Lead	Depth To Groundwater	Groundwater Elevation (feet)
MW-2	07/08/99	--	--	--	--	--	--	--	--	--	25.89	172.42
198.31	07/15/99	--	<0.3	<0.3	<0.5	44	725	--	--	<5	26.00	172.31
	03/14/00	--	<0.3	<0.3	0.78	1.12	104	--	--	--	25.34	172.97
	06/27/00	--	<0.5	<0.5	<0.5	<1.0	<100	--	--	--	25.94	172.37
	09/25/00	--	<0.5	2.70	0.58	2.3	<100	--	--	--	26.33	171.98
	11/13/00	--	<0.5	<0.5	<0.5	2.2	<100	--	--	--	26.32	171.99
	02/14/01	--	<0.5	<0.5	0.58 ^a	<1.0	<100	--	--	--	26.33	171.98
	06/07/01	--	<0.5	<0.5	<0.5	<1.0	<100	--	--	--	26.21	172.10
	08/01/01	--	<0.5	<0.5	<0.5	<1.0	<50	--	--	--	26.37	171.94
	11/15/01	--	<0.5	5.7 ^a	12 ^a	43 ^a	1,900	--	--	--	26.50	171.81
	03/25/02	--	<0.5	<1.0	<1.0	1.66	<100	--	--	--	25.29	173.02
	06/21/02	--	--	--	--	--	--	--	--	--	--	--
	09/23/02	--	0.317	<1.0	<1.0	1.01	<100	--	--	--	26.25	172.06
	12/10/02	--	--	--	--	--	--	--	--	--	26.41	171.90
	04/02/03	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	25.40	172.91
	06/11/03	--	--	--	--	--	--	--	--	--	26.05	172.26
	09/15/03	--	<1.0	<1.0	<1.0	<1.0	<100	--	--	--	27.40	170.91
	12/04/03	--	--	--	--	--	--	--	--	--	25.51	172.80
	03/04/04	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.64	171.67
	05/10/04	--	--	--	--	--	--	--	--	--	27.05	171.26
	08/11/04	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	27.34	170.97
	11/17/04	--	--	--	--	--	--	--	--	--	27.23	171.08
	02/21/05	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.95	171.36
	05/17/05	--	--	--	--	--	--	--	--	--	29.21	169.10
	08/19/05	--	--	--	--	--	--	--	--	--	28.91	169.40
	10/26/05	--	--	--	--	--	--	--	--	--	29.68	168.63
	01/26/06	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	25.72	172.59
	05/11/06	--	--	--	--	--	--	--	--	--	25.90	172.41
	07/26/06	--	--	--	--	--	--	--	--	--	--	--
	11/09/06	--	--	--	--	--	--	--	--	--	22.96	175.35
	04/11/07	--	--	--	--	--	--	--	--	--	23.35	174.96
	08/27/07	--	--	--	--	--	--	--	--	--	26.22	172.09
	02/06/08	--	--	--	--	--	--	--	--	--	26.38	171.93
	08/18/08	--	--	--	--	--	--	--	--	--	25.12	173.19
	11/12/08	--	--	--	--	--	--	--	--	--	23.06	175.25
	02/05/09	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	24.98	173.33
	01/12/10	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	25.23	173.08
	02/14/11	--	<0.5	<0.5	<0.5	<0.5	<250	--	--	--	25.45	172.86
	02/09/12	--	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	25.18	173.13
	01/18/13	--	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	25.13	173.18
	04/08/14	<1.00	<1.00	<1.00	<1.00	<2.00	<50.0	<1.00	<0.00932	13.2	25.25	173.06
	09/23/14	<1.00	<1.00	<1.00	<1.00	<2.00	<50.0	--	--	--	26.18	172.13
MTCA Method A Cleanup Level		20	5	1,000	700	1,000	800/1,000^b	5	0.01	15		

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MW-3	07/08/99	--	--	--	--	--	--	--	--	--	25.60	172.59	
198.19	07/15/99	--	<0.3	<0.3	<0.5	<0.6	<100	--	--	<5	26.10	172.09	
	03/14/00	--	<0.3	<0.3	<0.5	<0.6	<100	--	--	--	24.89	173.30	
	06/27/00	--	<0.5	<0.5	<0.5	<1.0	<100	--	--	--	25.56	172.63	
	09/25/00	--	<0.5	2.10	<0.5	1.7	<100	--	--	--	25.98	172.21	
	11/13/00	--	<0.5	<0.5	<0.5	<1.5	<100	--	--	--	25.94	172.25	
	02/14/01	--	<0.5	<0.5	<0.57 ^a	<1.0	<100	--	--	--	26.15	172.04	
	06/07/01	--	<0.5	<0.5	<0.5	<1.0	<100	--	--	--	25.87	172.32	
	08/01/01	--	<0.5	<0.5	<0.5	<1.0	<50	--	--	--	26.01	172.18	
	11/15/01	--	<0.5	<0.5	<0.5	<1.0	<100	--	--	--	26.20	171.99	
	03/25/02	--	<0.5	<1.0	<1.0	<3.0	<100	--	--	--	23.89	174.30	
	06/21/02	--	<0.5	<1.0	<1.0	<3.0	<100	--	--	--	25.59	172.60	
	09/23/02	--	0.299	<1.0	<1.0	<1.0	<100	--	--	--	25.88	172.31	
	12/10/02	--	<0.5	<1.0	<1.0	<3.0	<100	--	--	--	26.00	172.19	
	04/02/03	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	25.98	172.21	
	06/11/03	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	25.68	172.51	
	09/15/03	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	27.05	171.14	
	12/04/03	--	--	--	--	--	--	--	--	--	25.09	173.10	
	03/04/04	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.23	171.96	
	05/10/04	--	--	--	--	--	--	--	--	--	26.68	171.51	
	08/11/04	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.97	171.22	
	11/17/04	--	--	--	--	--	--	--	--	--	26.84	171.35	
	02/21/05	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.61	171.58	
	05/17/05	--	--	--	--	--	--	--	--	--	28.46	169.73	
	08/19/05	--	--	--	--	--	--	--	--	--	27.68	170.51	
	10/26/05	--	--	--	--	--	--	--	--	--	24.68	173.51	
	01/26/06	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	25.27	172.92	
	05/11/06	--	--	--	--	--	--	--	--	--	25.40	172.79	
	07/26/06	--	--	--	--	--	--	--	--	--	--	--	
	11/09/06	--	--	--	--	--	--	--	--	--	21.14	177.05	
	04/11/07	--	--	--	--	--	--	--	--	--	24.92	173.27	
	08/27/07	--	--	--	--	--	--	--	--	--	25.83	172.36	
	02/06/08	--	--	--	--	--	--	--	--	--	--	--	
	08/18/08	--	--	--	--	--	--	--	--	--	24.73	173.46	
	02/05/09	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	25.14	173.05	
	01/12/10	Unable to access well										--	--
	02/14/11	Unable to access well										--	--
	02/09/12	Unable to access well										--	--
	01/18/13	Unable to access well										--	--
	04/08/14	<1.00	<1.00	<1.00	<1.00	<2.00	<50.0	<1.00	<0.00969	6.10	--	--	
	09/23/14	<1.00	<1.00	<1.00	<1.00	<2.00	<50.0	--	--	--	25.81	172.38	
MTCA Method A Cleanup Level		20	5	1,000	700	1,000	800/1,000^b	5	0.01	15			

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store No. 25983
3541 Martin Way East, Olympia, Washington
All results in micrograms per liter (µg/L), except where noted.

Well ID (TOC)	Sample Date	MtBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	EDC	EDB	Total Lead	Depth To Groundwater	Groundwater Elevation (feet)
MW-4	07/08/99	--	--	--	--	--	--	--	--	--	26.12	172.43
198.55	07/15/99	--	<30	5,150	<50	23,900	90,800	--	--	<5	26.10	172.45
	03/14/00	--	<30	1,870	3,030	27,500	67,000	--	--	--	25.41	173.14
	06/27/00	--	100	2,500	3,400	27,000	91,000	--	--	--	26.81	171.74
	09/25/00	--	10,000	4,800	4,200	4,200	68,000	--	--	--	26.70	171.85
	11/13/00	--	<120	780	1,800	17,000	70,000	--	--	--	26.77	171.78
	02/14/01	--	<120	660	1,300 ^a	21,000	99,000	--	--	--	25.74	172.81
	06/07/01	--	<25	97	360	4,800	23,000	--	--	--	26.34	172.21
	08/01/01	--	20.5	329	300	12,100	39,900	--	--	--	26.53	172.02
	11/15/01	--	<10	97 ^a	350 ^a	4,700 ^a	30,000	--	--	--	27.37	171.18
	03/25/02	--	1.7	74.8	143	1,489	34,100	--	--	--	25.45	173.10
	06/21/02	--	<0.5	5.28	349	1,867	22,600	--	--	--	26.54	172.01
	09/23/02	--	1.0	7.97	77.3	438	6,090	--	--	--	26.65	171.90
	12/10/02	--	<5.0	7.38	225.0	1,788	14,500	--	--	--	26.67	171.88
	04/02/03	--	7.7	7.9	350	1,950	30,000	--	--	--	26.44	172.11
	06/11/03	--	5.9	6.5	160	580	7,600	--	--	--	26.54	172.01
	09/15/03	--	<5.0	<5.0	76.0	460	5,800	--	--	--	27.67	170.88
	12/04/03	--	4.9	2.1	140	332	5,200	--	--	--	26.41	172.14
	03/04/04	--	4.5	3.2	75	259	3,800	--	--	--	27.11	171.44
	05/10/04	--	1.6	<1.0	24	100	2,300	--	--	--	27.65	170.90
	08/11/04	--	1.7	<1.0	10	38	1,100	--	--	--	27.76	170.79
	11/17/04	--	5.3	15	580	4,500	43,000	--	--	--	27.12	171.43
	02/21/05	--	3.8	1.8	93	630	16,000	--	--	--	27.61	170.94
	05/17/05	--	2.2	<1.0	49	190	6,600	--	--	--	27.51	171.04
	08/19/05	--	1,100	580	1,600	5,330	30,000	--	--	--	29.99	168.56
	10/26/05	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.10	172.45
	01/26/06	--	1.9	<1.0	120	139	3,400	--	--	--	26.65	171.90
	05/11/06	--	<1.0	<1.0	75	37	2,400	--	--	--	27.40	171.15
	07/26/06	--	350	2,900	750	2,740	24,000	--	--	--	28.56	169.99
	11/09/06	--	170	<4.0	91	55	3,300	--	--	--	26.68	171.87
	04/11/07	--	<4.0	<4.0	59	50	3,100	--	--	--	26.11	172.44
	08/27/07	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	27.05	171.50
	02/06/08	--	<1.0	<1.0	6.9	<2.0	160	--	--	--	26.28	172.27
	08/18/08	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.95	171.60
	11/12/08	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.78	171.77
	02/05/09	<0.20	<1.0	<1.0	<1.0	<2.0	<100	<0.20	<0.0095	--	26.28	172.27
	01/12/10	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	24.95	173.60
	02/14/11	--	<0.5	<0.5	<0.5	<0.5	<250	--	--	--	26.13	172.42
	02/09/12	--	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	25.79	172.76
	01/18/13	--	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	24.32	174.23
	04/08/14	<1.00	<1.00	<1.00	<1.00	<2.00	<50.0	<1.00	<0.00952	6.48	26.95	171.60
	09/23/14	<1.00	<1.00	<1.00	<1.00	<2.00	<50.0	--	--	--	26.62	171.93
MTC A Method A Cleanup Level		20	5	1,000	700	1,000	800/1,000 ^b	5	0.01	15		

**TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS**

7-Eleven Store No. 25983
3541 Martin Way East, Olympia, Washington
All results in micrograms per liter (µg/L), except where noted.

Well ID (TOC)	Sample Date	MtBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	EDC	EDB	Total Lead	Depth To Groundwater	Groundwater Elevation (feet)
MW-5	06/07/01	--	<0.5	<0.5	2.1	26	950	--	--	--	26.48	171.88
198.36	08/01/01	--	1.4	<0.5	3.0	4.3	899	--	--	--	26.76	171.60
	11/15/01	--	<0.5	<0.5	6.5 ^a	20 ^a	1,500	--	--	--	27.08	171.28
	03/25/02	--	<0.5	<1.0	0.6	1.6	188	--	--	--	26.10	172.26
	06/21/02	--	<0.5	<1.0	<1.0	<3.0	<100	--	--	--	26.59	171.77
	09/23/02	--	0.304	<1.0	<1.0	1.6	<100	--	--	--	26.65	171.71
	12/10/02	--	<0.5	<1.0	<1.0	<3.0	<100	--	--	--	26.70	171.66
	04/02/03	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.24	172.12
	06/11/03	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.70	171.66
	09/15/03	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	27.67	170.69
	12/04/03	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.32	172.04
	03/04/04	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	27.48	170.88
	05/10/04	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	27.58	170.78
	08/11/04	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	27.71	170.65
	11/17/04	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	27.68	170.68
	02/21/05	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	27.31	171.05
	05/17/05	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	31.26	167.10
	08/19/05	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	28.46	169.90
	10/26/05	--	7.50	<1.0	<1.0	1.1	410	--	--	--	24.25	174.11
	01/26/06	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.55	171.81
	05/11/06	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.60	171.76
	07/26/06	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	31.68	166.68
	11/09/06	--	--	--	--	--	--	--	--	--	22.90	175.46
	04/11/07	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.17	172.19
	08/27/07	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.70	171.66
	02/06/08	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.12	172.24
	08/18/08	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	25.65	172.71
	11/12/08	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.65	171.71
	02/05/09	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	26.37	171.99
	01/12/10	--	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	24.90	173.46
	02/14/11	--	<0.5	<0.5	<0.5	<0.5	<250	--	--	--	26.25	172.11
	02/09/12	--	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	26.00	172.36
	01/18/13	--	<0.50	0.60	<0.50	<0.50	<250	--	--	--	26.00	172.36
	04/08/14	<1.00	<1.00	<1.00	<1.00	<2.00	<50.0	<1.00	<0.00962	2.51	26.05	172.31
	09/23/14	<1.00	<1.00	<1.00	<1.00	<2.00	<50.0	--	--	--	26.65	171.71
MTCA Method A Cleanup Level		20	5	1,000	700	1,000	800/1,000^b	5	0.01	15		

Explanation of Abbreviations:

- TOC = top of casing elevation
- MtBE = methyl tertiary butyl ether
- TPH-G = total petroleum hydrocarbons as gasoline
- EDC = 1,2-Dichloroethane
- EDB = 1,2-Dibromoethane
- = not sampled, not measured, or not available
- < = less than the reporting limit
- MTCA = Model Toxics Control Act

Notes:

- ^a Method blank contamination
 - ^b The TPH-G cleanup level is reduced from 1,000 µg/L to 800 µg/L if benzene is present in the sample
- Bold values exceed the MTCA Method A Cleanup Level**

TABLE 2A
Soil Analytical Results - TPH-G, BTEX, MtBE & Total Lead
7-Eleven Store No. 25983
3541 Martin Way East
Olympia, Washington
All concentrations are in milligrams per kilogram (mg/kg).

Sample Type	Sample Name	Depth (feet bgs)	USCS	PID (ppm)	Date Sampled	BTEX Compounds (mg/Kg)				TPH-G (mg/Kg)	MtBE (mg/Kg)	Total Lead (mg/Kg)	
						Benzene	Toluene	Ethyl Benzene	Total Xylenes				
1995 Product Piping Upgrade - Fluor Daniel GTI													
Dispenser Area Samples	D-1	--	--	--	06/21/95	<0.05	<0.05	<0.05	0.56	140	--	<10	
	D-2	--	--	--	06/21/95	<0.40	16	11	120	1,400	--	<10	
Tank Area Samples	T-1	--	--	--	06/21/95	<0.05	<0.05	<0.05	<0.10	<1.0	--	<10	
	T-2	--	--	--	06/21/95	<0.05	<0.05	<0.05	<0.10	<1.0	--	<10	
1997 Limited Site Assessment - Fluor Daniel GTI													
Dispenser Area Samples	D-1 ^a	--	--	--	09/24/97	<0.05	0.0934	<0.05	0.289	10.7	--	18.4	
	D-2 ^a	--	--	--	09/24/97	<10.0	188	60.4	1,060	11,100	--	<10	
Fill Port Sample	FP-1	--	--	--	09/24/97	<0.05	0.223	<0.05	0.242	5.63	--	<10	
Product Line Sample	PL-1	--	--	--	09/24/97	<0.05	0.0527	<0.05	<0.1	<5.0	--	13.7	
1999 Well Install - IT Corporation													
Soil Boring Samples	MW-1	12.5-15.5	GM	0.0	06/07/99	<0.05	<0.05	<0.05	<0.10	<10	<0.05	31.7	
		24.5-27.5	SM	0.0	06/07/99	<0.05	<0.05	<0.05	<0.10	<10	<0.05	15.3	
	MW-2	11.5-14.5	SP	0.0	06/07/99	<0.05	<0.05	<0.05	<0.10	<10	<0.05	16.7	
		26.5-29.5	SP-GP	0.0	06/07/99	<0.05	<0.05	<0.05	<0.10	<10	<0.05	17.8	
	MW-3	11.5-14.5	SM	0.0	06/07/99	<0.05	<0.05	<0.05	<0.10	<10	<0.05	28.7	
		26.5-29.5	GP	0.0	06/07/99	<0.05	<0.05	<0.05	<0.10	<10	<0.05	15.2	
	MW-4	6.5-9.5	ML	0.0	06/07/99	<0.05	<0.05	<0.05	<0.10	<10	<0.05	43.3	
		11.5-14.5	SM	--	06/07/99	<0.05	<0.05	<0.05	0.117	<10	<0.05	29	
2001 Well Install - IT Corporation													
Soil Boring Samples	MW-5	15	GM	113	04/26/01	<0.005	<0.005	<0.005	<0.015	<1.0	--	--	
		25	GP	27	04/26/01	<0.005	<0.005	<0.005	0.0097	<1.0	--	--	
2002 Subsurface Assessment - IT Corporation													
Soil Boring Samples	GP-1	13-15	GW	442	05/23/02	0.55	1.23	17.2	148	2,230	--	--	
		15-18	GW	730	05/23/02	0.192	0.15	0.342	1.789	236	--	--	
	GP-4	12-16	GW	190	05/23/02	<0.0213	0.01	<0.0425	0.067	<4.25	--	--	
		16-20	GP	0.0	05/23/02	<0.0214	0.01	0.0084	0.067	<4.28	--	--	
		24-28	SP	10	05/23/02	<0.0209	<0.0419	<0.0419	0.053	<4.19	--	--	
		28-32	GP	8.0	05/23/02	<0.0261	<0.0522	<0.0522	0.057	<5.22	--	--	
	GP-5	16-20	SP	0.0	05/23/02	<0.0213	0.03	0.0087	0.047	<4.26	--	--	
		24-28	SP	0.0	05/23/02	<0.0206	<0.0413	<0.0413	0.1238	<4.13	--	--	
			28-32	SP	0.0	05/23/02	<0.0219	<0.0437	<0.0437	0.052	<4.37	--	--
	2009 Subsurface Assessment - Stantec												
Soil Boring Samples	SB-1	15-15.5	ML	0.0	08/19/09	<0.020	<0.045	<0.045	<0.090	<4.5	--	--	
		24-25	GP	0.0	08/20/09	<0.020	<0.049	<0.049	<0.098	<4.9	--	--	
	SB-2	5-5.5	SM	0.0	08/18/09	<0.020	<0.069	<0.069	<0.138	<6.9	--	--	
		5-5.5	SM	0.0	08/18/09	<0.020	<0.073	<0.073	<0.146	<7.3	--	--	
	SB-3	10-10.5	GP	0.0	08/19/09	<0.020	<0.064	<0.064	<0.128	<6.4	--	--	
		16-16.5	GW	760	08/19/09	1.3	0.15	5.1	29.8	980	<0.10	<5.6	
		25-26	GP	0.0	08/20/09	<0.020	<0.044	0.048	0.291	6.6	--	--	
	SB-4	14-15	GP	0.0	08/20/09	0.080	<0.11	0.49	0.79	140	--	--	
		24-25	GP	0.0	08/20/09	<0.020	<0.054	<0.054	<0.108	<5.4	--	--	
	SB-5	9-10	SM	0.0	08/21/09	<0.020	<0.056	<0.056	<0.112	<5.6	--	--	
		14-15	SM	40	08/21/09	0.33	0.41	3.5	24.2	530	<0.099	<5.6	
		24-25	GP	0.0	08/21/09	<0.020	<0.049	<0.049	<0.098	<4.9	--	--	
	SB-6	14-15	ML	0.0	08/21/09	<0.020	<0.047	<0.047	<0.094	<4.7	--	--	
		19-20	GP	0.0	08/21/09	<0.020	<0.062	<0.062	<0.124	<6.2	--	--	
	SB-7	5-5.5	ML	0.0	08/18/09	<0.020	<0.055	<0.055	<0.110	<5.5	--	--	
		14-15	GP	0.0	08/21/09	<0.020	<0.054	<0.054	<0.108	<5.4	--	--	
		24-25	GP	0.0	08/21/09	<0.020	<0.062	<0.062	<0.124	<6.2	--	--	
	SB-8	5-5.5	ML	0.0	08/18/09	<0.020	<0.067	<0.067	<0.134	<6.7	--	--	
		15-16	ML	0.0	08/21/09	<0.020	<0.063	<0.063	<0.126	<6.3	--	--	
		24-25	GP	0.0	08/21/09	<0.020	<0.048	<0.048	<0.096	<4.8	--	--	
	SB-3 FD	16-16.5	GW	834	08/19/09	0.039	<0.050	<0.49	3.01	92	--	--	
		26	GP	0.0	08/20/09	<0.020	<0.061	<0.061	0.094	<6.1	--	--	
	SB-5 FD	15	SM	40	08/21/09	0.54	0.49	4.4	33.6	640	--	--	
MTCA Method A Cleanup Levels						0.03	7	6	9	30 ^b	0.01	250	

TABLE 2A
Soil Analytical Results - TPH-G, BTEX, MtBE & Total Lead
7-Eleven Store No. 25983
3541 Martin Way East
Olympia, Washington
All concentrations are in milligrams per kilogram (mg/kg).

Sample Type	Sample Name	Depth (feet bgs)	USCS	PID (ppm)	Date Sampled	BTEX Compounds (mg/Kg)				TPH-G (mg/Kg)	MtBE (mg/Kg)	Total Lead (mg/Kg)
						Benzene	Toluene	Ethyl Benzene	Total Xylenes			
2014 UST Removal - Stantec												
Stockpile Samples	CSP-1	--	--	7	10/07/14	<0.0135	<0.0135	<0.0203	<0.0270	<3.38	--	9.75
	CSP-2	--	--	0	10/08/14	<0.0139	<0.0139	<0.0208	<0.0278	<3.46	--	9.73
	CSP-3	--	--	0	10/09/14	<0.0137	<0.0137	<0.0205	<0.0274	<3.42	--	6.61
	DSP-1	--	--	1,874	10/09/14	<0.0133	<0.0133	<0.0199	0.0542	20.1	--	2.89
	DSP-2	--	--	1,546	10/09/14	<0.0134	<0.0134	<0.0202	<0.0268	5.36	--	2.22
	DSP-3	--	--	2,426	10/09/14	<0.0160	<0.0160	<0.0240	0.153	24.2	--	2.20
	DSP-4	--	--	2,130	10/15/14	<0.0121	<0.0121	0.160	1.178	46.4	--	2.25
Below Tank Samples	DSP-5	--	--	1,647	10/16/14	<0.0117	0.0225	1.28	8.59	330	--	2.10
	DSP-6	--	--	1,866	10/16/14	<0.0111	0.260	5.31	40.4	934	--	2.09
Side Wall Samples	WEST TANK@13'	13'	--	794	10/08/14	<0.0124	<0.0124	0.0799	0.542	98.6	--	3.10
	MID TANK@13'	13'	--	7	10/08/14	<0.0138	<0.0138	<0.0207	<0.0276	<3.45	--	3.35
Side Wall Samples	EAST TANK@12'	12'	--	0	10/08/14	<0.0150	<0.0150	<0.0226	<0.0300	<3.76	--	2.66
	WEST WALL@8'	8'	--	1	10/08/14	<0.0172	<0.0172	<0.0258	<0.0344	<4.30	--	3.27
	EAST WALL@10'	10'	--	3	10/08/14	<0.0124	<0.0124	<0.0186	<0.0248	<3.10	--	1.55
	EAST WALL@17'	17'	--	2,285	10/14/14	<0.0108	4.07	6.38	40.9	517	--	2.40
	EAST WALL@26'	26'	--	3	10/14/14	<0.0112	0.0152	<0.0169	0.0219	<2.81	--	2.19
	NORTH WALL@9'	9'	--	0	10/09/14	<0.0148	<0.0148	<0.0221	<0.0296	<3.69	--	2.16
	NORTH WALL@16'	16'	--	250	10/15/14	<0.02	<0.05	<0.05	<0.15	63	--	<5.0
	NORTH WALL@18'	18'	--	448	10/15/14	<0.02	<0.05	<0.05	<0.15	24	--	--
	NORTH WALL@24'	24'	--	2	10/15/14	<0.0107	<0.0107	<0.0161	0.0214	<2.68	--	2.21
	SOUTH WALL@10'	10'	--	1	10/15/14	<0.0130	<0.0130	<0.195	<0.026	<3.25	--	7.01
Product Line Sample	SOUTH WALL@18'	18'	--	1,389	10/15/14	<0.02	<0.05	0.09	1.8	280	<0.05	<5.0
Dispenser Island Samples	PL@3'	3'	--	0	10/09/14	<0.0138	<0.0138	<0.0207	<0.0276	<3.45	--	1.60
	DIW@5'	5'	--	0	10/09/14	<0.0142	<0.0142	<0.0213	<0.0284	<3.54	--	4.67
Dispenser Island Samples	DIE@5'	5'	--	1	10/09/14	<0.0131	<0.0131	<0.0196	<0.0262	<3.27	--	1.88
	DI@20'	20'	--	2,176	10/09/14	<0.0150	0.0467	0.586	5.68	270	--	2.53
	DI@26'	26'	--	0	10/09/14	<0.0240	<0.0240	<0.0361	0.0562	<6.01	--	2.88
Excavation Samples	CSS-1@17'	17'	--	5	10/10/14	<0.0130	<0.0130	<0.0195	<0.0260	<3.25	--	2.02
	CSS-2@20'	20'	--	5	10/10/14	<0.0164	<0.0164	<0.0246	<0.0328	<4.10	--	2.29
	CSS-3@17'	17'	--	2	10/13/14	<0.0122	<0.0122	<0.0182	<0.0244	<3.04	--	1.76
	CSS-3@22'	22'	--	2	10/13/14	<0.0105	<0.0105	<0.0158	<0.0210	<2.63	--	1.62
	CSS-4@18'	18'	--	3	10/13/14	<0.0120	<0.0120	<0.0180	<0.0240	<3.00	--	2.44
	CSS-4@25'	25'	--	4	10/13/14	<0.0129	<0.0129	<0.0193	<0.0258	<3.22	--	2.55
	CSS-5@18'	18'	--	0	10/13/14	<0.0140	<0.0140	<0.0210	<0.0280	<3.49	--	2.53
	CSS-5@24'	24'	--	0	10/13/14	<0.0127	<0.0127	<0.0190	<0.0254	<3.17	--	2.82
	CSS-6@18'	18'	--	1,752	10/16/14	<0.0104	<0.0104	0.0452	0.3304	84.2	<0.0260	1.80
	CSS-7@23'	23'	--	30	10/16/14	<0.0127	<0.0127	<0.0190	<0.0254	<3.17	<0.0317	2.00
	CSS-8@25'	25'	--	12	10/16/14	<0.0113	<0.0113	<0.0170	<0.0226	<2.83	--	2.00
	CSS-9@16'	16'	--	4	10/16/14	<0.0113	<0.0113	<0.0169	0.0531	<2.81	<0.0281	2.03
	CSS-10@16'	16'	--	0	10/16/14	<0.0128	0.0382	<0.0192	0.0304	<3.20	<0.316	3.03
	SS-1@20'	20'	--	2,440	10/10/14	<0.0147	0.0247	0.0690	0.507	48.7	--	3.22
	SS-1@25'	25'	--	1	10/10/14	<0.0128	<0.0128	<0.0192	<0.0256	<3.20	--	1.95
	SS-2@17'	17'	--	970	10/10/14	<0.0144	<0.0144	<0.0216	<0.0288	8.80	--	2.04
	SS-3@15'	15'	--	1,904	10/10/14	<0.0141	<0.0141	0.146	0.660	86.9	--	2.13
	SS-4@18'	18'	--	2,022	10/10/14	<0.0147	<0.0147	<0.0220	0.1933	85.7	--	2.29
	SS-4@23'	23'	--	4	10/10/14	<0.0129	<0.0129	<0.0194	<0.0258	<3.23	--	2.64
	SB-3@16'	16'	--	1,750	10/16/14	<0.0112	<0.0112	0.451	4.02	75.6	--	2.04
SB-3@17'	17'	--	141	10/16/14	<0.0127	<0.0127	<0.0190	<0.0254	<3.16	--	2.16	
MTCA Method A Cleanup Levels						0.03	7	6	9	30^b	0.01	250

Explanation of Abbreviations:

- TPH-G = total petroleum hydrocarbons in the gasoline range
- MtBE = methyl tertiary butyl ether
- bgs = below ground surface
- USCS = Unified Soil Classification System
- PID = photoionization detector
- ppm = parts per million
- BTEX = benzene, toluene, ethyl benzene, and total xylenes
- mg/Kg = milligrams per kilogram or approximately ppm
- MtBE = methyl tertiary butyl ether
- MTCA = Model Toxics Control Act

Notes:

- ^a = D-1 and D-2 samples were collected during the September 24, 1997 investigation and are separate samples from D-1 and D-2
- ^b = gasoline mixtures without benzene and where the total of the other BTEX constituents are less than 1% of the gasoline mixture have a cleanup level of 100 mg/Kg; all other mixtures are 30 mg/Kg

= samples removed from Site during 2014 excavation
bold = analytical result exceeds the specified MTCA Method A Cleanup Level

TABLE 2B
 Soil Analytical Results - Naphthalene, VPH, EDB, and EDC
 Former 7-Eleven Store No. 25983
 3541 Martin Way East
 Olympia, Washington
 All concentrations are in milligrams per kilogram (mg/kg).

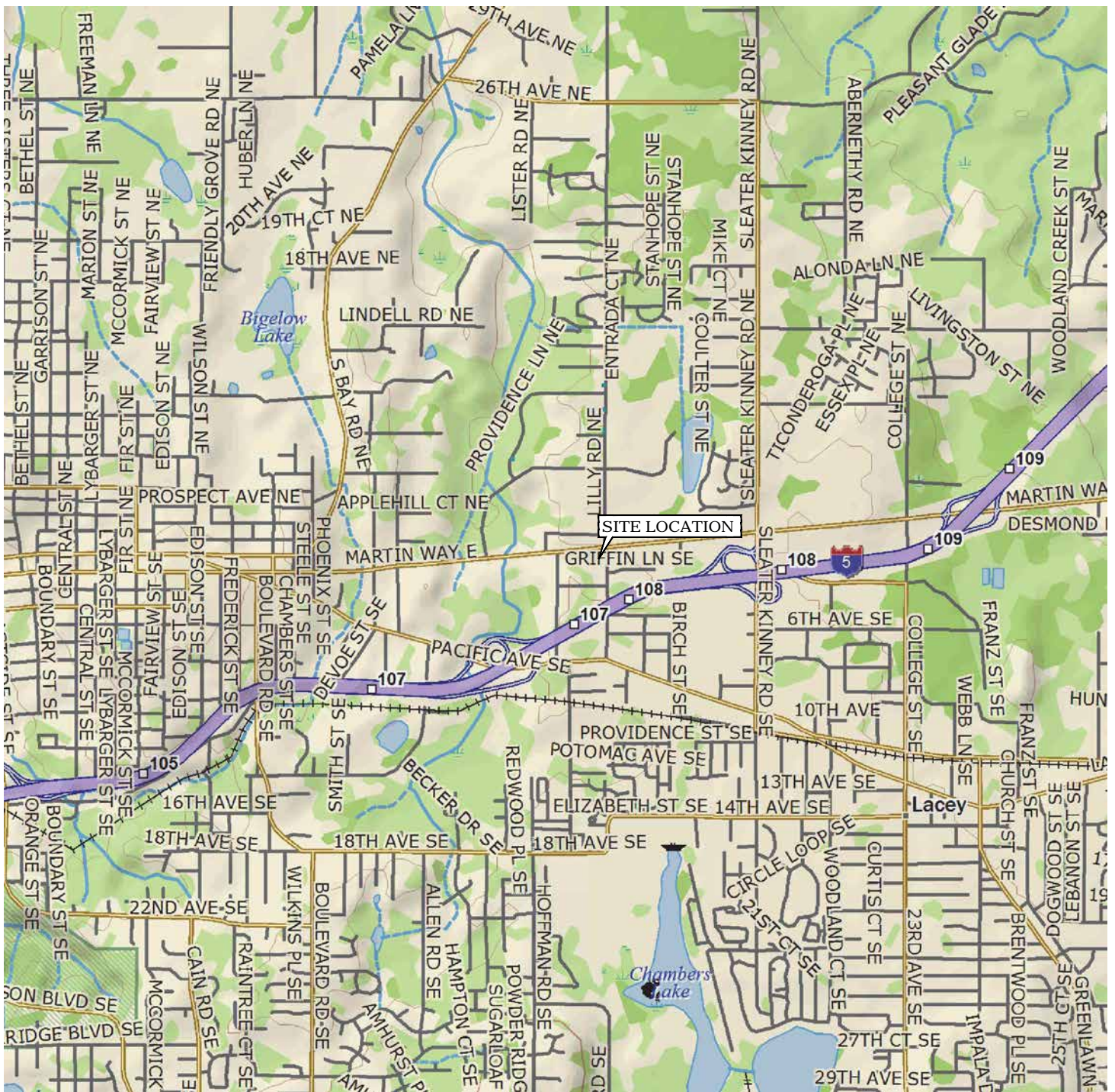
Sample Location and Depth (feet bgs)	Date Sampled	Naphthalenes* (mg/Kg)			Volatile Petroleum Hydrocarbons (mg/Kg)							EDB (mg/Kg)	EDC (mg/Kg)
		Naphthalene	2-Methyl Naphthalene	1-Methyl Naphthalene	Aliphatic				Aromatic				
					C5-C6	C6-C8	C8-C10	C10-C12	C8-C10	C10-C12	C12-C13		
2009 Subsurface Assessment - Stantec													
SB-3@16'	08/19/09	0.11	0.43	0.18	<9.8	25	<9.8	14	31	27	<9.8	<0.10	<0.10
SB-5@15'	08/21/09	--	--	--	--	--	--	--	--	--	--	<0.099	<0.099
2014 UST Removal - Stantec													
South Wall @ 18'	10/15/14	0.02	0.22	0.12	<5.0	6.3	6.0	<5.0	26	64	48	<0.01	<0.05
CSS-6 @ 18'	10/16/14	<0.0533	<0.0533	<0.0533	<1.18	1.88	1.70	9.87	8.28	44.4	24.1	<0.00260	<0.0156
CSS-7 @ 23'	10/16/14	<0.0530	<0.0530	<0.0530	<1.59	<1.59	<1.59	<1.59	<1.59	<1.59	<1.59	<0.0317	<0.0190
CSS-9 @ 16'	10/16/14	<0.0521	<0.0521	<0.0521	<1.12	<1.12	<1.12	<1.12	<1.12	1.67	1.32	<0.00281	<0.0169
CSS-10 @ 16'	10/16/14	<0.0564	<0.0564	<0.0564	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<1.26	<0.00320	<0.0192
MTCA Method A Cleanup Levels		5	--	--	--	--	--	--	--	--	--	--	--

Explanation of Abbreviations

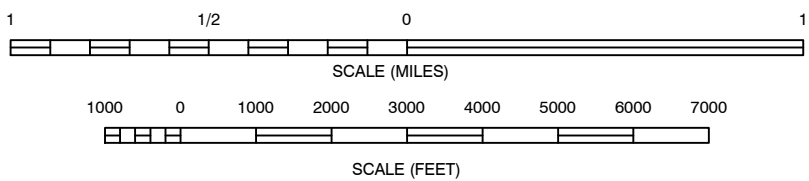
- VPH = volatile petroleum hydrocarbons
- EDB = 1,2-Dibromoethane
- EDC = 1,2-Dichloroethane
- bgs = below ground surface
- mg/Kg = milligrams per kilogram or approximately ppm
- MTCA = Model Toxics Control Act
- * = Naphthalenes by EPA Method 8270
- = Sample has been removed from site
- bold** = analytical result exceeds the specified MTCA Method A Cleanup Level

FIGURES
UST SYSTEM REMOVAL REPORT
7-ELEVEN STORE NO. 25983

January 6, 2015



WASHINGTON



REFERENCE: USGS 7.5 MINUTE QUADRANGLE, LACEY, WASHINGTON



11130 NE 33RD PLACE, SUITE 200
 BELLEVUE, WASHINGTON
 PHONE: (425) 869-9448 FAX: (425) 869-1190

FOR: 
 STORE NO. 25983
 3541 MARTIN WAY EAST
 OLYMPIA, WASHINGTON

JOB NUMBER: 185750040
 DRAWN BY: MDR

SITE LOCATION MAP

CHECKED BY: EWB
 APPROVED BY: PF



FIGURE:
1
 DATE:
 JUNE 2013

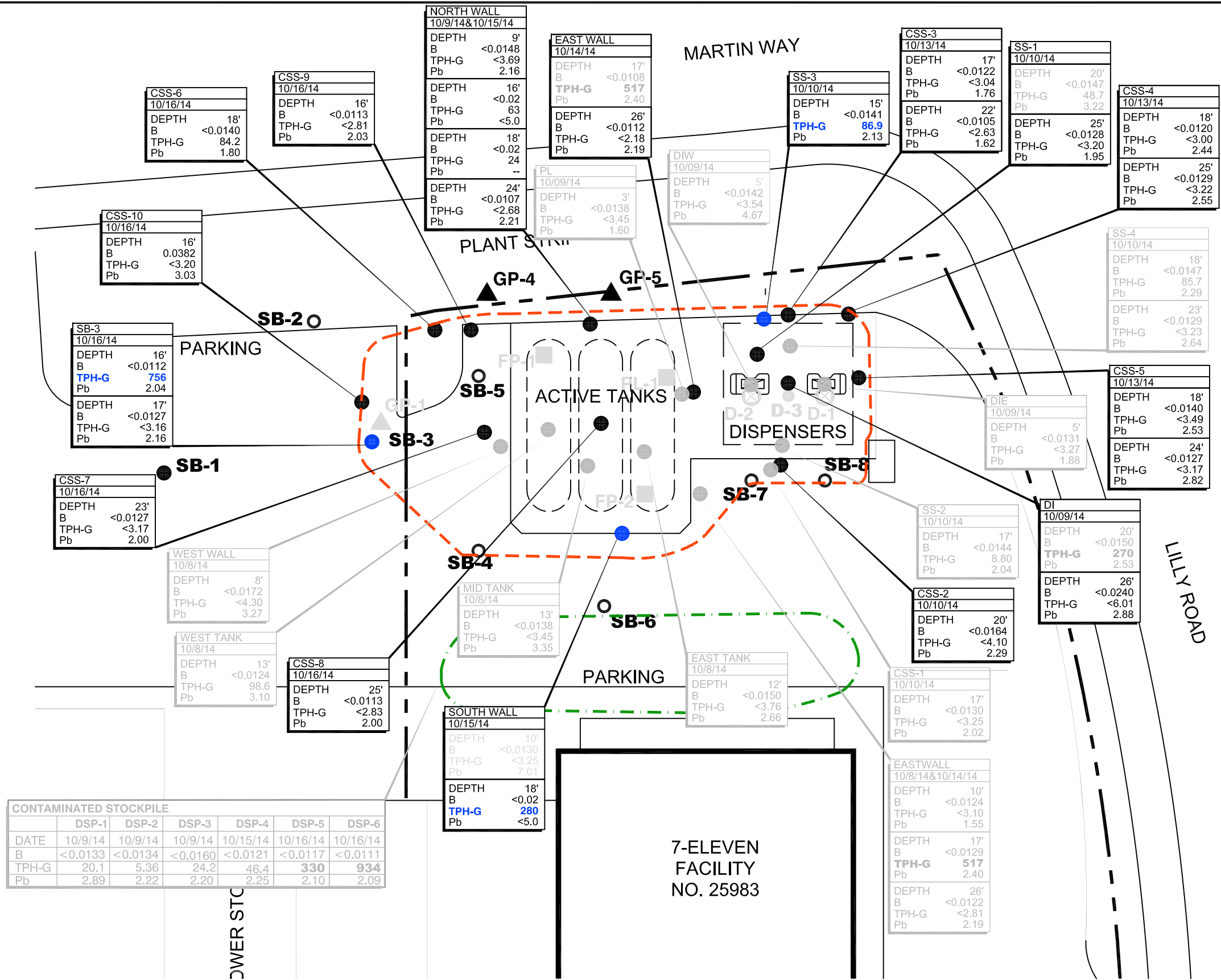


LEGEND:

- - - SUBJECT PROPERTY

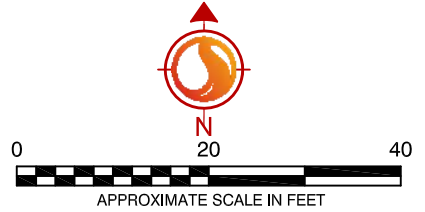
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 11130 NE 33RD PLACE, SUITE 200 BELLEVUE, WASHINGTON PHONE: (425) 869-9448 FAX: (425) 869-1190	FOR:	 STORE NO. 25983 3541 MARTIN WAY EAST OLYMPIA, WASHINGTON	SITE VICINITY MAP		FIGURE: 2
	JOB NUMBER: 185750040	DRAWN BY: MDR	CHECKED BY: EWB	APPROVED BY: PF	DATE: JUNE 2013

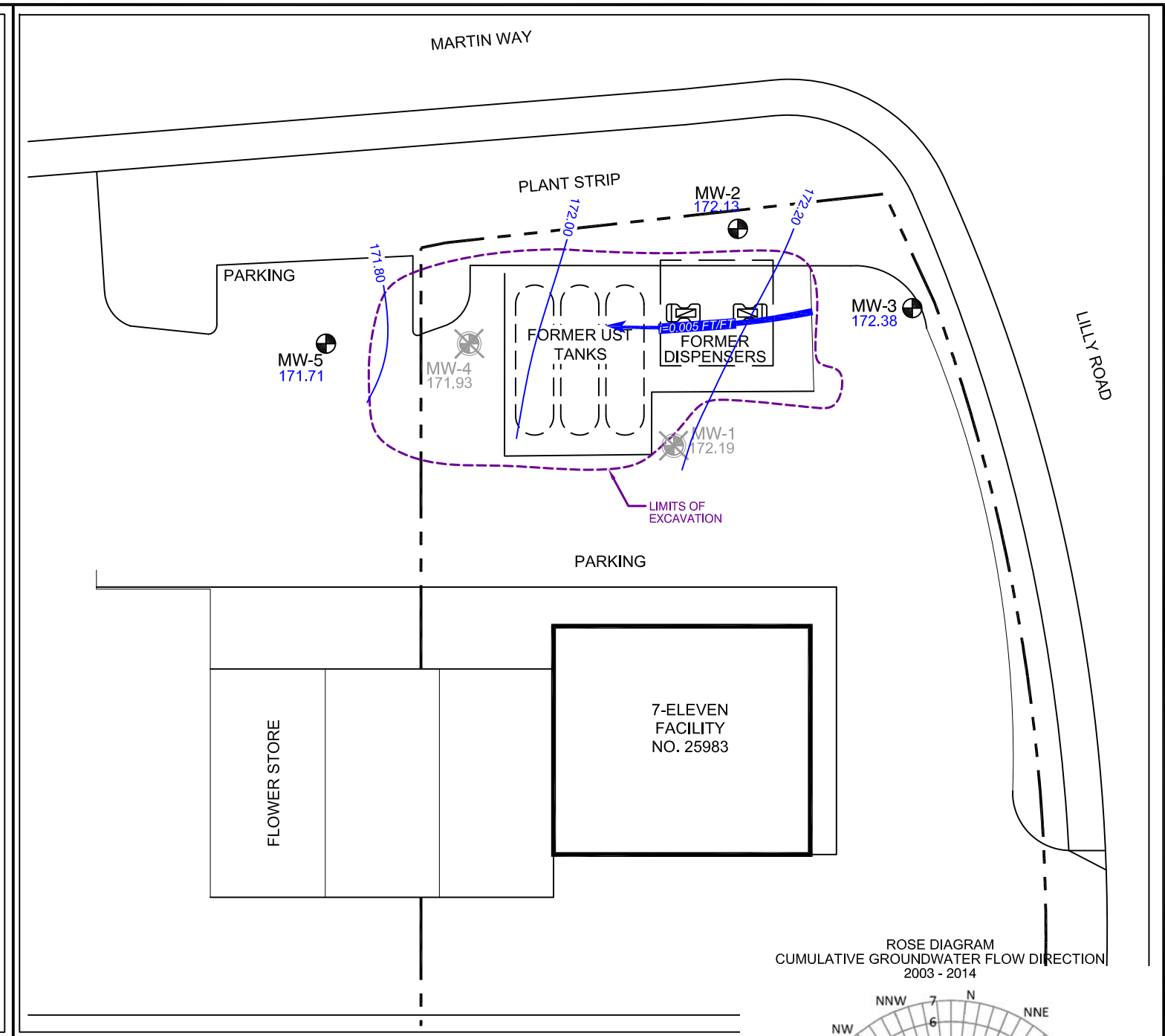
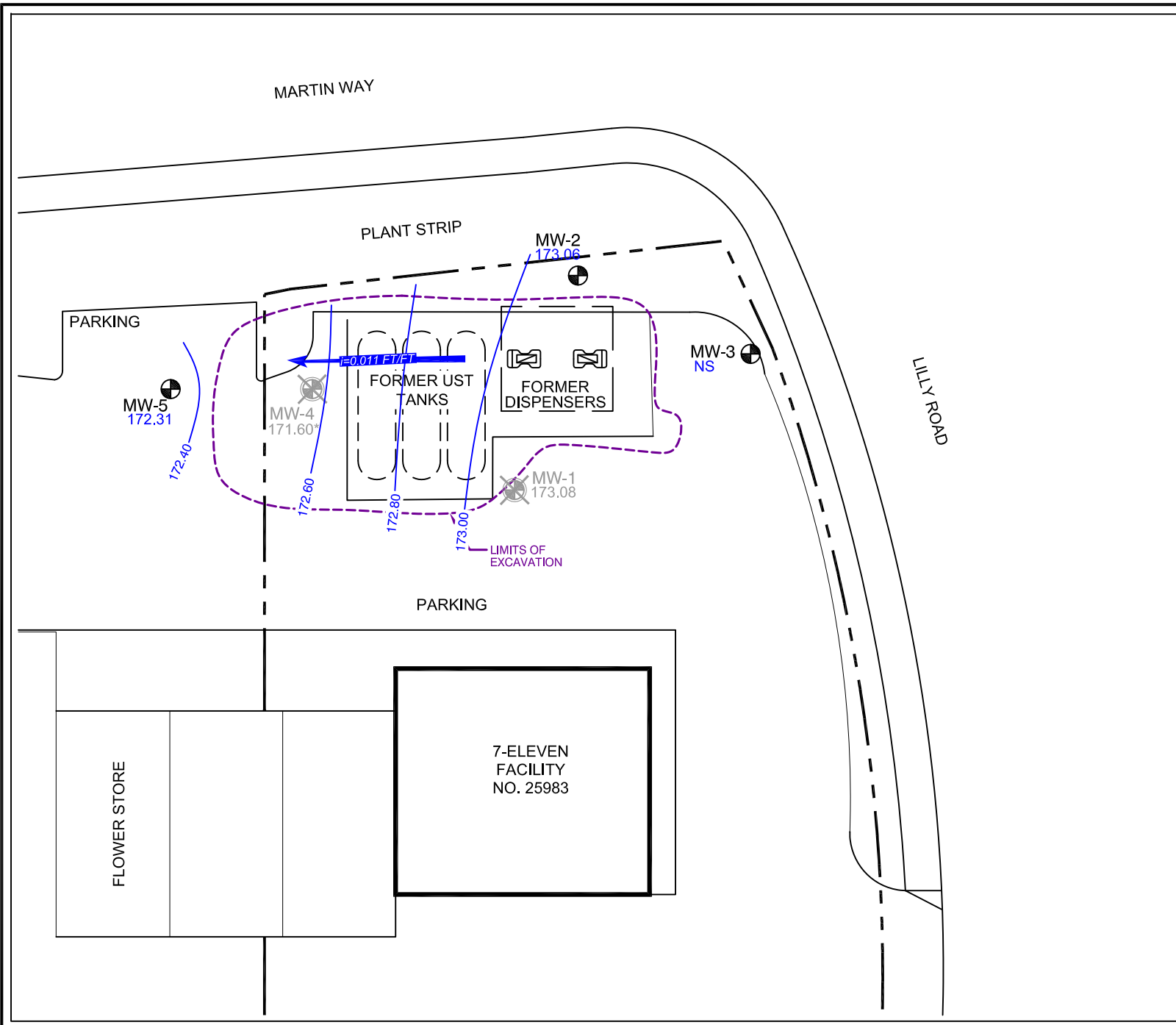


- LEGEND:**
- SUBJECT PROPERTY LINE BOUNDARY
 - LIMITS OF EXCAVATION
 - STOCKPILE BOUNDARY LINE
 - MW-1 GROUNDWATER MONITORING WELL LOCATION
 - GP-1 SOIL PROBEHOLE ADVANCED MAY 23, 2002
 - PL-1 SOIL SAMPLES COLLECTED SEPTEMBER 24, 1997
 - D-1 SOIL SAMPLES COLLECTED JUNE 21, 1995 AND SEPTEMBER 24, 1997
 - SB-1 PROBEHOLE LOCATION COLLECTED AUGUST 18, 2009
 - CSS-1@20' EXCAVATION LIMIT SAMPLES COLLECTED OCTOBER 10-16, 2014
 - INDICATES THAT SAMPLES WERE REMOVED DURING EXCAVATION
 - INDICATES CONCENTRATION WAS DETECTED ABOVE MTCM METHOD A SCREENING LEVELS, BUT BELOW SITE SPECIFIC (METHOD B) CLEANUP LEVELS.
- | SB-1 | 8/19/09 | SAMPLE ID | SAMPLE DATE |
|-------|---------|--|-------------|
| DEPTH | 10' | SAMPLE DEPTH | |
| B | <0.020 | BENZENE | |
| TPH-G | <4.5 | TOTAL PETROLEUM HYDROCARBONS AS GASOLINE | |
| Pb | - | TOTAL LEAD | |

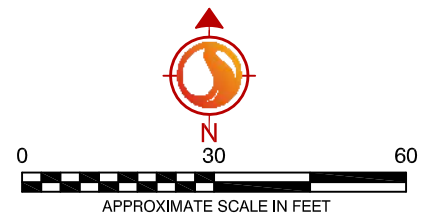
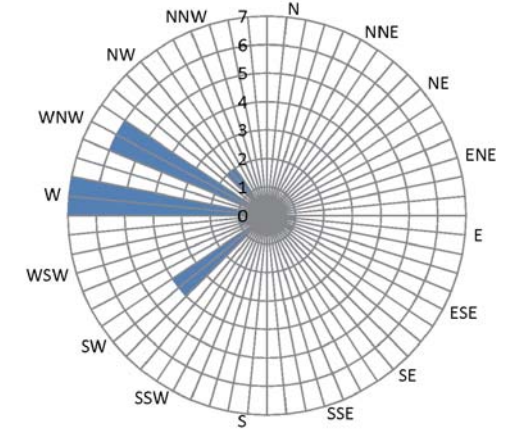
ALL CONCENTRATIONS IN mg/kg
BOLD INDICATES CONCENTRATION ABOVE ACTION LEVEL



<p>11130 NE 33RD PLACE, SUITE 200 BELLEVUE, WASHINGTON PHONE: (425) 869-9448 FAX: (425) 869-1190</p>	FOR:	<p>STORE NO. 25983 3541 MARTIN WAY EAST OLYMPIA, WASHINGTON</p>	SITE PLAN WITH SOIL ANALYTICAL RESULTS		FIGURE: 3
	JOB NUMBER: 185750263		DRAWN BY: BLG	CHECKED BY: EH	APPROVED BY: PF



ROSE DIAGRAM
CUMULATIVE GROUNDWATER FLOW DIRECTION
2003 - 2014



- LEGEND:**
- SUBJECT PROPERTY LINE BOUNDARY
 - MW-1 GROUNDWATER MONITORING WELL LOCATION
 - MW-4 MONITORING WELL ABANDONED IN PLACE
 - INFERRED GROUNDWATER FLOW DIRECTION
 - 172.0 — ELEVATION CONTOUR (FEET)
INFERRED GROUNDWATER
CONTOUR INTERVAL = 0.20 FT
 - 173.06 — RELATIVE GROUNDWATER ELEVATION (FEET)
 - * NOT USED IN CONTOUR

GROUNDWATER ELEVATION CONTOUR MAP FOR APRIL 8, 2014

Stantec
11130 NE 33RD PLACE, SUITE 200
BELLEVUE, WASHINGTON
PHONE: (425) 869-9448 FAX: (425) 869-1190

FOR: **7-ELEVEN**
STORE NO. 25983
3541 MARTIN WAY EAST
OLYMPIA, WASHINGTON

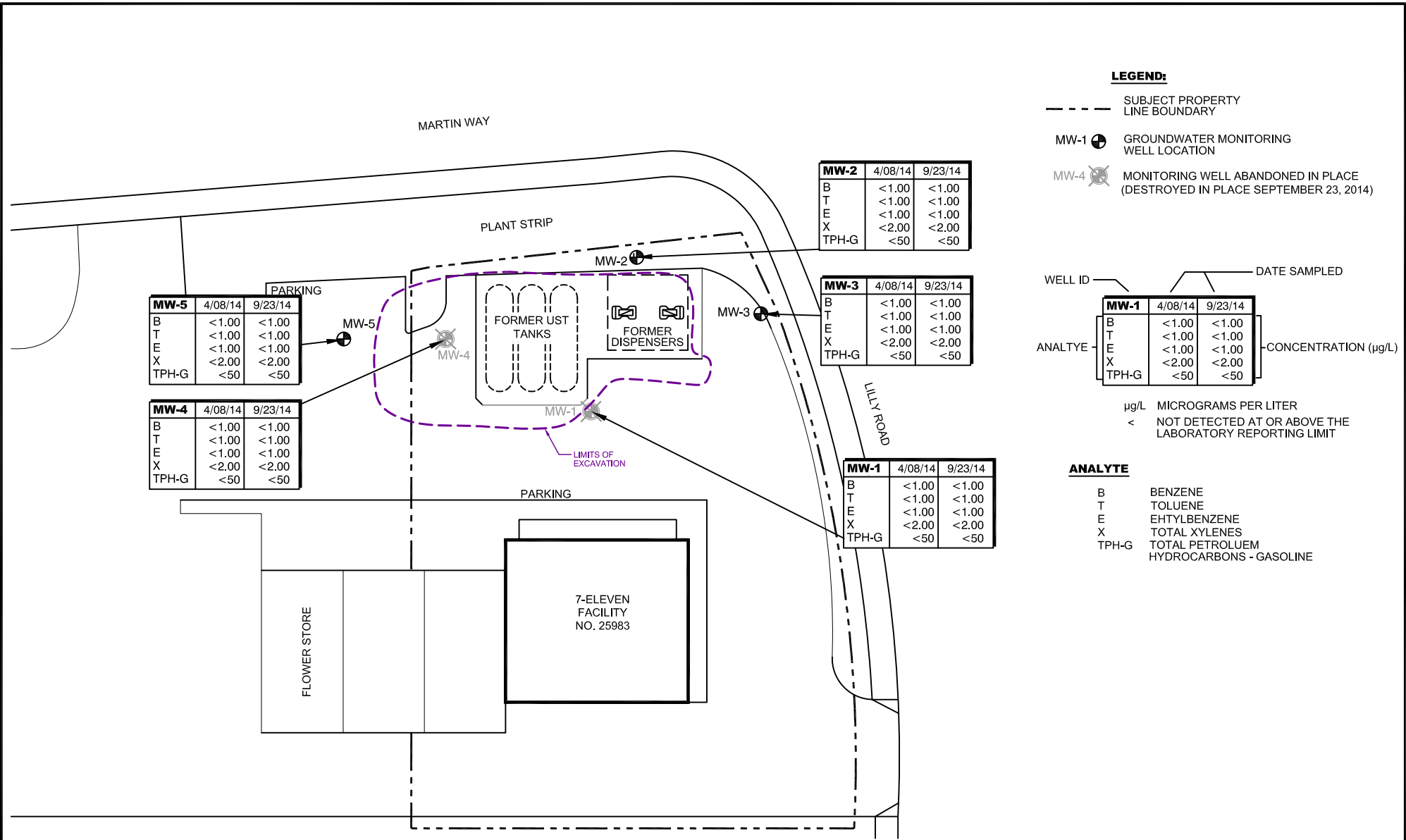
GROUNDWATER ELEVATION CONTOUR MAP FOR SEPTEMBER 23, 2014

FIGURE: **4**
DATE: DEC 2014

JOB NUMBER: 185750040
DRAWN BY: MDR

CHECKED BY: EWB

APPROVED BY: PF



LEGEND:

- SUBJECT PROPERTY LINE BOUNDARY
- MW-1 GROUNDWATER MONITORING WELL LOCATION
- MW-4 MONITORING WELL ABANDONED IN PLACE (DESTROYED IN PLACE SEPTEMBER 23, 2014)

WELL ID: MW-1

DATE SAMPLED: 4/08/14, 9/23/14

ANALYTE	4/08/14	9/23/14
B	<1.00	<1.00
T	<1.00	<1.00
E	<1.00	<1.00
X	<2.00	<2.00
TPH-G	<50	<50

CONCENTRATION (µg/L)

µg/L MICROGRAMS PER LITER
 < NOT DETECTED AT OR ABOVE THE LABORATORY REPORTING LIMIT

ANALYTE

- B BENZENE
- T TOLUENE
- E ETHYLBENZENE
- X TOTAL XYLENES
- TPH-G TOTAL PETROLUEM HYDROCARBONS - GASOLINE

MW-2

	4/08/14	9/23/14
B	<1.00	<1.00
T	<1.00	<1.00
E	<1.00	<1.00
X	<2.00	<2.00
TPH-G	<50	<50

MW-3

	4/08/14	9/23/14
B	<1.00	<1.00
T	<1.00	<1.00
E	<1.00	<1.00
X	<2.00	<2.00
TPH-G	<50	<50

MW-1

	4/08/14	9/23/14
B	<1.00	<1.00
T	<1.00	<1.00
E	<1.00	<1.00
X	<2.00	<2.00
TPH-G	<50	<50

MW-5

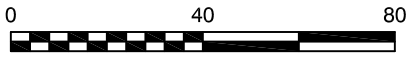
	4/08/14	9/23/14
B	<1.00	<1.00
T	<1.00	<1.00
E	<1.00	<1.00
X	<2.00	<2.00
TPH-G	<50	<50

MW-4

	4/08/14	9/23/14
B	<1.00	<1.00
T	<1.00	<1.00
E	<1.00	<1.00
X	<2.00	<2.00
TPH-G	<50	<50

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APPROXIMATE SCALE IN FEET



11130 NE 33RD PLACE, SUITE 200
 BELLEVUE, WASHINGTON
 PHONE: (425) 869-9448 FAX: (425) 869-1190

FOR:

STORE NO. 25983
 3541 MARTIN WAY EAST
 OLYMPIA, WASHINGTON

JOB NUMBER: 185750040 DRAWN BY: MDR

GROUNDWATER ANALYTICAL RESULTS
APRIL 8, 2014 AND SEPTEMBER 23, 2014

CHECKED BY: EWB APPROVED BY: PF

FIGURE: **5**

DATE: DEC 2014

APPENDIX A
STANTEC GROUNDWATER MONITORING PROCEDURES AND
SECOND AND THIRD QUARTER 2014 FIELD NOTES
UST SYSTEM REMOVAL REPORT
7-ELEVEN STORE NO. 25983

January 6, 2015



Stantec

WORK REQUEST FORM



JOB NAME: 7-Eleven 25983

JOB NUMBER: 185750040

SITE ADDRESS: 3541 Martin Way

START DATE: Tuesday, April 08, 2014

PREPARED FOR: Olympia, Wa
Emily Harper

PREPARED BY: Emily Harper

NOTE: _____

REVIEWED BY: Paul Fairbairn

WORK DESCRIPTION:

1. Review H&S Plan.
2. Arrive onsite and check in with Station Manager and contact Paul Fairbairn.
3. Review HASP, conduct Health and Safety briefing and perform Site Walk to determine any traffic flow.
4. Gauge all site wells following gauging order on Sampling Request Form.
5. Low-flow purge and sample wells following the sampling order provided.
6. Take a drum for purge water. Store purge water in drums onsite, make sure they are labeled properly and secured.
7. Take an inventory of all waste drums generated by Stantec at the site, and mark locations on site plan.
8. Call Paul Fairbairn in the office prior to leaving the site.

Job Numbers:

All Groundwater Sampling

185750040.300.0700

Contacts Information:

Paul Fairbairn in Stantec Office : (425) 298-1016 or (206) 369-8383

7-Eleven Environmental Manager: Jose Rios

ANALYTICAL REQUIREMENTS:	EQUIPMENT NEEDED:
NWTPH-Gx	H&S plan
BTEX 8260	Safety Equipment
EDB, EDC, MTBE, Total Lead	Delineators
	Mini cooler for product sample
	Low-Flow Purging/Sampling Equipment
	Oil/Water Interface Probe
	Disposable bailers/ Rope
	Peristaltic Pump & Tubing
	Drum and labels

AUTHORIZATION : _____

COMPLETED: 



1st QUARTER 2014 SAMPLING REQUEST

7-Eleven Service Station No. 25983 located at 3541 Martin Way; Olympia, WA

Project No.	Task	Project Manager	Date	Lab:	Client Contact:					
						185750040	300.0700	Paul Fairbairn	04/08/14	Fremont
Well Number	Gaug. Freq.	Gaug. Order	Samp. Freq.	Samp. Order	Analyses	Well Depth	Top of Screen	Casing Dia.	Depth of Pump Intake (ft bTOC)	Comments
MW-1	Annual	5	Annual	5	NWTPHG, BTEX 8260, EDB, EDC, MTBE, Total Lead					
MW-2	Annual	4	Annual	4	NWTPHG, BTEX 8260, EDB, EDC, MTBE, Total Lead					
MW-3	Annual	1	Annual	1	NWTPHG, BTEX 8260, EDB, EDC, MTBE, Total Lead					
MW-4	Annual	2	Annual	2	NWTPHG, BTEX 8260, EDB, EDC, MTBE, Total Lead					
MW-5	Annual	3	Annual	3	NWTPHG, BTEX 8260, EDB, EDC, MTBE, Total Lead					

Notes:

- *Review and sign HASP prior to arriving on site. Check in with station manager and Stantec Project Manager Paul Fairbairn: Cell: 206 369 8383; Office: 425 298 1016
- * Implement Stantec low flow purging and sampling procedures.
- *All wells will be sampled for NWTPH-Gx, BTEX 8260
- *The wells are now historically clean, if product or sheen is found, use Stop Work Authority and contact the 7-Eleven Project Manager Paul Fairbairn immediately.
- *Please gauge all selected wells first and proceed to sample all wells unless otherwise noted.
- *Store water in drum on-site. Label drum with contents with a Non Hazardous Waste Drum label and note in the field log

No. wells gauged without sampling: _____ Total wells sampled: _____

Gallons Purged: _____



SITE VISITATION REPORT
1Q14 - 7-Eleven Service Station No. 25983 - Olympia, WA



Name(s) Emily Harper Date: 04/08/14 Time of Arrival Call-In: 7:40
 Arrival Time: 7:40 Departure Time: _____ Time of Departure Call-In: _____
 Who did you call? Paul Fairbairn

DRUM INVENTORY

<u>1</u>	WATER	<u>0</u>	CARBON	TOTAL OPEN TOP	<u>0</u>
<u>0</u>	SOIL	<u>0</u>	EMPTY	TOTAL BUNG TOP	<u>1</u>

one bung top left onsite today

HEALTH AND SAFETY ASSESSMENT

<u>PPE</u>	<u>Stop work authority</u>
<u>TRAFFIC - delimitation</u>	<u>proper tools</u>
<u>HASP + hospital directions</u>	<u>proper lifting</u>
<u>1st AID</u>	<u>pinch points</u>
<u>fire extinguisher</u>	

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

7:40 ARRIVE ONSITE, text paul f. H+S Review (see hasp for ESN tailgate)
7:45 don ppe, talk to cashier.
8:00 site walk, drum inventory, locate damaged wells (MW-3 + MW-4)
8:10 set up decan + sampling equipment
8:25 Begin gauging wells.
9:00 Begin sampling wells
9:15 ESN (Noel) onsite for well repair - stop work for H+S tailgate to go over scope
11:20 ESN off site - new well box cement to set on MW-3
MW-4 gaged
12:15 finished sampling, begin cleanup
13:00 call paul + depart site (will pickup delimitors on way to centralia
next week - left drum for setting concrete on mw-3)

GA



Stantec HYDROLOGIC DATA SHEET



Gauge Date: April 8, 2014

Project Name: 7-Eleven #25983

Field Technician: Emily Harper

Project Number: 185750040

DTP = Depth to Free Product (FP or NAPL) Below TOC
 DTW = Depth to Groundwater Below TOC
 DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y N MA

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y N

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
MW-1			8:45		25.25	35.91	Y	N	Y	well box clogged - clean
MW-2			9:00		25.25	35.29	Y	N	Y	
MW-3			-		-	-	Y	N	Y	To be repaired
MW-4			8:25		26.95	32.66	Y	N	Y	To be repaired
MW-5			8:40		26.05	34.08	Y	N	Y	

unable to gauge



Stantec
PROJECT #: 185750040 **PURGED & SAMPLED BY:** _____ **WELL & SAMPLE ID:** _____
CLIENT NAME: 7-Eleven Emily Harper **MW-1**
LOCATION: 3541 Martin Way, Olympia, WA

DATE PURGED & SAMPLED START (2400hr) 9:50 END (2400hr) _____
 Tuesday, April 08, 2014 **SAMPLE TIME (2400hr)** 10:15 **LOW-FLOW USED** NO
SAMPLE TYPE: Groundwater x Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 8 3" _____ 4" _____
Casing Volume: (liters per foot) (0.64) (1.44) (2.45)

DEPTH TO BOTTOM (feet) = 35.91 $(10.66)(0.64)(2) = 13.64 L$
DEPTH TO WATER (feet) = 25.25
WATER COLUMN HEIGHT (feet) = 10.66 **ACTUAL PURGE (L) =** 13 L

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (L)	TEMP. (degrees F)	CONDUCTIVITY (µS/cm)	pH (units)	COLOR (visual)	O.R.P.
4/8/2014							
Calculated Variance of Final Three Samples:							
Acceptable Variance Limits:			≤ 10%	≤ 3%	≤ 0.1		≤ 10%

DEPTH TO PURGE INTAKE DURING PURGE: _____ **SAMPLE DTW:** _____

QTY OF SAMPLE VESSELS & PRESERVATIVE:
 6 HCL VOA's per well
 1 250 mL poly HNO3

ANALYSES:
 NWTPh-g
 BTEX 8260
 EDB, EDC, MTBE
 Total Lead

PURGING EQUIPMENT:
 Cole-Palmer Peristaltic Pump/Bailer

SAMPLING EQUIPMENT:
 YSI

Flow Through Cell Disconnected Prior to Sample Collection? YES NO

WELL PAD CONDITION: OK **WELL CASING CONDITION:** Good
WELL VAULT CONDITION: OK **SEAL PRESENT?:** yes **BOLTS PRESENT?:** 3/3
WELL INTEGRITY: Good **WELL TAG:** N/A **LOCK#:** N/A

REMARKS: well chamber completely clogged w/ sed - but reassured to well integrity ok. cleared well box out & disposed of mud

SIGNATURE: _____ **Page** 2 **of** 5



Stantec



WATER SAMPLE FIELD DATA SHEET

PROJECT #: 185750040 PURGED & SAMPLED BY: Emily Harper WELL & SAMPLE ID: MW-4
 CLIENT NAME: 7-Eleven
 LOCATION: 3541 Martin Way, Olympia, WA

DATE PURGED & SAMPLED: Tuesday, April 08, 2014 START (2400hr) 10:25 END (2400hr) _____
 SAMPLE TIME (2400hr) 10:40 LOW-FLOW USED NO
 SAMPLE TYPE: Groundwater x Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" X 3" _____ 4" _____
 Casing Volume: (liters per foot) (0.84) (1.44) (2.45)

DEPTH TO BOTTOM (feet) = 32.66 (5.71)(0.64)(2) = 7.30 ft
 DEPTH TO WATER (feet) = 26.95
 WATER COLUMN HEIGHT (feet) = 5.71 ACTUAL PURGE (L) = 8 L

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (L)	TEMP. (degrees F)	CONDUCTIVITY (μ S/cm)	pH (units)	COLOR (visual)	O.R.P.
4/8/2014							
Calculated Variance of Final Three Samples:							
Acceptable Variance Limits:			$\leq 10\%$	$\leq 3\%$	≤ 0.1		$\leq 10\%$

DEPTH TO PURGE INTAKE DURING PURGE: _____ SAMPLE DTW: _____

QTY OF SAMPLE VESSELS & PRESERVATIVE: 6 HCL VOA's per well 1 250 mL poly HNO3
 ANALYSES: NWTPH-g BTEX 8260 EDB, EDC, MTBE Total Lead

PURGING EQUIPMENT: Cole-Palmer Peristaltic Pump/Bailer SAMPLING EQUIPMENT: YSI

Flow Through Cell Disconnected Prior to Sample Collection?: YES - NO -

WELL PAD CONDITION: OK WELL CASING CONDITION: _____
 WELL VAULT CONDITION: OK (need small repair) SEAL PRESENT?: YES BOLTS PRESENT?: 3/3
 WELL INTEGRITY: OK (") WELL TAG: N/A LOCK#: N/A

REMARKS: Well being repaired today. top ~8" of PVC pipe loose.

SIGNATURE:



WATER SAMPLE FIELD DATA SHEET

PROJECT #: 185750040 PURGED & SAMPLED BY: Emily Harper WELL & SAMPLE ID: MW-2
 CLIENT NAME: 7-Eleven
 LOCATION: 3541 Martin Way, Olympia, WA

DATE PURGED & SAMPLED: Tuesday, April 08, 2014 START (2400hr) 11:00 END (2400hr) _____
 SAMPLE TIME (2400hr) 11:30 LOW-FLOW USED NO
 SAMPLE TYPE: Groundwater x Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 3" 4" 8
 Casing Volume: (liters per foot) (0.64) (1.44) (2.45)

DEPTH TO BOTTOM (feet) = 35.29 (10.04)(2.45)(2) = 49.19
 DEPTH TO WATER (feet) = 25.25
 WATER COLUMN HEIGHT (feet) = 10.04 ACTUAL PURGE (L) = 31 L

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (L)	TEMP. (degrees F)	CONDUCTIVITY (µS/cm)	pH (units)	COLOR (visual)	O.R.P.
4/8/2014							

Calculated Variance of Final Three Samples: _____
 Acceptable Variance Limits: ≤ 10% ≤ 3% ≤ 0.1 ≤ 10%

DEPTH TO PURGE INTAKE DURING PURGE: — SAMPLE DTW: —

QTY OF SAMPLE VESSELS & PRESERVATIVE: 6 HCL VOA's per well
1 250 mL poly HNO3
 ANALYSES: NWTPH-g
BTEX 8260
EDB, EDC, MTBE
Total Lead

PURGING EQUIPMENT: Cole-Palmer Peristaltic Pump/Bailer SAMPLING EQUIPMENT: YSI

Flow Through Cell Disconnected Prior to Sample Collection?: YES — NO —

WELL PAD CONDITION: G O O D WELL CASING CONDITION: G O O D
 WELL VAULT CONDITION: G O O D SEAL PRESENT?: YES BOLTS PRESENT?: 3/3
 WELL INTEGRITY: G O O D WELL TAG: N/A LOCK#: N/A

REMARKS: _____

SIGNATURE:  Page 4 of 5

DAILY PRODUCTION HEALTH AND SAFETY BRIEFING LOG

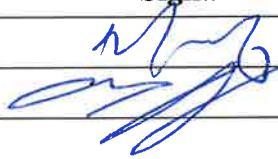
Date: 4/8/14 Start Time: 9:00 AM (ESN)

Scope of Work: WELL REPAIR

Issues Discussed:

- | | |
|--|--|
| <ul style="list-style-type: none"> 1. PPE 2. TRAFFIC 3. DELINEATION 4. WASTE REMOVAL 5. STOP WORK AUTHORITY | <ul style="list-style-type: none"> 6. MASI 7. first aid kit, fire ext. 8. Hospital directions 9. Proper tools for Job 10. Proper lifting techniques |
|--|--|

Attendees

Print Name and Company	Signature	Second Meeting (Initial)
<u>Neil Knapp ESN</u>		
<u>EMILY HARPER Stater</u>		

Meeting Conducted by:	Signature:
Name (Site Health and Safety Coordinator):	Signature:



JOB NAME: 7-Eleven 19648

JOB NUMBER: 185750013

SITE ADDRESS: 3209 Northwest Avenue

START DATE: Friday, September 05, 2014

Bellingham, WA

PREPARED FOR: Emily Harper

PREPARED BY: Emily Harper

NOTE:

REVIEWED BY: Paul Fairbairn

WORK DESCRIPTION:

1. Review H&S Plan.
2. Arrive onsite and check in with Station Manager and contact Paul Fairbairn.
3. Review HASP, conduct Health and Safety briefing and perform Site Walk to determine any traffic flow.
4. Gauge all site wells following gauging order on Sampling Request Form.
5. Low-flow purge and sample wells following the sampling order provided.
6. Take a drum for purge water. Store purge water in drums onsite, make sure they are labeled properly and secured.
7. Take an inventory of all waste drums generated by Stantec at the site, and mark locations on site plan.
8. Call Paul Fairbairn in the office prior to leaving the site.

Job Numbers:

All Groundwater

185750013.300.0700

Contacts Information:

Paul Fairbairn in Stantec Office : (425) 869-9448 x143

7-Eleven Environmental Manager Jose Rios

ANALYTICAL REQUIREMENTS:	EQUIPMENT NEEDED:
NWTPH-Gx	H&S plan
BTEX 8260	Safety Equipment
Total Lead	Delineators
	Mini cooler for product sample
	Low-Flow Purging/Sampling Equipment
	Oil/Water Interface Probe
	Disposable bailers/ Rope
	Peristaltic Pump & Tubing
	Drum and labels

AUTHORIZATION :

COMPLETED: 



3Q14 SAMPLING REQUEST

7-Eleven Service Station No. 19648 located at 3209 Northwest Avenue; Bellingham, WA

Project No. 185750013		Task 300.0700		Project Manager Paul Fairbairn		Date		Lab: Fremont		Client Contact: Jose Rios	
Well Number	Gaug. Freq.	Gaug. Order	Well Number	Samp. Order	Analyses	Well Depth	Top of Screen	Casing Dia.	Depth of Pump Intake (ft bTOC)	Comments	
MW-1		1			BTEX, NWTPH-g (8260), Total Lead						
MW-2		2			BTEX, NWTPH-g (8260), Total Lead						
MW-3		3			BTEX, NWTPH-g (8260), Total Lead						
MW-4		4			BTEX, NWTPH-g (8260), Total Lead						
Notes:											
*Review and sign HASP prior to arriving on site. Check in with station manager and Stantec Project Manager Paul Fairbairn; Cell: 206 369 8383; Office: (425) 298-1016											
* Implement Stantec low flow purging and sampling procedures.											
*NWTPH-Gx, BTEX											
*The wells are now historically clean, if product or sheen is found, use Stop Work Authority and contact the 7-Eleven Project Manager Paul Fairbairn immediately.											
*Please gauge all selected wells first and proceed to sample all wells unless otherwise noted.											
*Store water in drum on-site. Label drum with contents with a Non Hazardous Waste Drum label and note in the field log											
No. wells gauged without sampling: _____											
Total wells sampled: _____											
Gallons Purged: _____											



SITE VISITATION REPORT

3Q14- 7-Eleven Service Station No. 19648- Bellingham, WA



Name(s) Emily Harper Date: 9/5/14

Time of Arrival Call-In: 7:00

Arrival Time: 7:00 Departure Time: 13:15

Time of Departure Call-In: 12:45

Who did you call? Paul Fairbairn

DRUM INVENTORY

<u>0</u>	WATER	<u>0</u>	CARBON	TOTAL OPEN TOP	<u>0</u>
<u>0</u>	SOIL	<u>0</u>	EMPTY	TOTAL BUNG TOP	<u>0</u>

No drums onsite

HEALTH AND SAFETY ASSESSMENT

Traffic + delineation 1st AID
Hydration + heat stress FIRE EXT.
PPE STOP WORK AUTH.
Proper tools
HASP + hosp. directions

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

7:00 ARRIVE ONSITE, text paul
7:15 talk to manager
7:30 setup down + eq.
7:35 gauge wells
8:00 sample wells
11:20 H2Ozone onsite H+S overview
11:30 ABANDON MW-1
11:45 ABANDON MW-2
12:00 ABANDON MW-3
12:30 WRAP UP, talk to manager
12:45 call paul
13:15 depart site

eh

reed



Gauge Date: 09/05/14

Project Name: 7-Eleven #19648

Field Technician: Emily Harper

Project Number: 185750013

DTP = Depth to Free Product (FP or NAPL) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y ~~N~~

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y ~~N~~

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
MW-1			7:35		9.23	12.93	Y	N	Y	
MW-2			7:40		9.56	12.89	Y	N	Y	
MW-3			7:45		9.40	12.05	Y	N	Y	
MW-4			7:50		9.22	12.26	Y	N	Y	

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 185750013 PURGED BY: Emily Harper WELL I.D.: MW-2
 CLIENT NAME: 7-Eleven SAMPLED BY: Emily Harper
 LOCATION: 19648 located at 3209 Northwest Avenue; Bellingham, WA

DATE PURGED 9/5/2014 START (2400hr) 8:00
 DATE SAMPLED 9/5/2014 SAMPLE TIME (2400hr) 8:30 LOW-FLOW USED YES
 SAMPLE TYPE: Groundwater x Surface Water Treatment Effluent Other

CASING DIAMETER: 2" 4" 6" 1"
 Casing Volume: (liters per foot) (0.16) (0.6) (1.46)

DEPTH TO BOTTOM (feet) = 12.89
 DEPTH TO WATER (feet) = 9.56
 WATER COLUMN HEIGHT (feet) = 3.33 ACTUAL PURGE (L) = 2.00L

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (L)	TEMP. (degrees C)	CONDUCTIVITY	pH (units)	COLOR (visual)	O.R.P.
9/5/14	8:15	0.25	18.60	2.050	7.54	CLR	100.1
	8:18	0.75	18.71	1.969	7.46	CLR	93.1
	8:21	1.25	18.81	1.806	7.44	CLR	87.5
	8:24	1.75	18.90	1.693	7.41	CLR	87.2
Calculated Variance of Final Three Samples:							
Acceptable Variance Limits:		≤ 10%	≤ 3%	≤ 0.1			≤ 10%

DEPTH TO PURGE INTAKE DURING PURGE: 11.0 ft SAMPLE DTW:

QTY OF SAMPLE VESSELS & PRESERVATIVE: 3-HCL VOA'S PER WELL
250 mL poly w/ nitric acid
 ANALYSES: NWTPH-g
BTEX-g
Total Lead

PURGING EQUIPMENT: Geopump SAMPLING EQUIPMENT: YSI

Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO

WELL PAD CONDITION: Good WELL CASING CONDITION: Good
 WELL VAULT CONDITION: Good SEAL PRESENT?: YES BOLTS PRESENT?: 2/2
 WELL INTEGRITY: Good WELL TAG: YES LOCK#: N/A

REMARKS: Well to be abandoned today



Stantec



WATER SAMPLE FIELD DATA SHEET

PROJECT #: 185750013 PURGED BY: Emily Harper WELL I.D.: MW-3
 CLIENT NAME: 7-Eleven SAMPLED BY: Emily Harper
 LOCATION: 19648 located at 3209 Northwest Avenue; Bellingham, WA

DATE PURGED 9/5/2014 START (2400hr) 8:35
 DATE SAMPLED 9/5/2014 SAMPLE TIME (2400hr) 9:00 LOW-FLOW USED Yes
 SAMPLE TYPE: Groundwater Surface Water Treatment Effluent Other

CASING DIAMETER: 2" 4" 6" 1"
 Casing Volume: (liters per foot) (0.16) (0.6) (1.46)

DEPTH TO BOTTOM (feet) = 17:05
 DEPTH TO WATER (feet) = 9:40
 WATER COLUMN HEIGHT (feet) = 2.65 ACTUAL PURGE (L) = _____

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (L)	TEMP. (degrees C)	CONDUCTIVITY (µS/cm)	pH (units)	COLOR (visual)	O.R.P.
9/5/14	8:47	0.25	19.26	3.157	6.89	CLR	107.5
	8:50	0.75	19.37	3.232	6.85	CLR	109.9
	8:53	1.25	19.39	3.306	6.82	CLR	111.4
	8:56	1.75	19.56	3.368	6.86	CLR	112.3

CHA

Calculated Variance of Final Three Samples: _____
 Acceptable Variance Limits: ≤ 10% ≤ 3% ≤ 0.1 ≤ 10%

DEPTH TO PURGE INTAKE DURING PURGE: 12.0 ft SAMPLE DTW: _____

QTY OF SAMPLE VESSELS & PRESERVATIVE: 3-HCL VOA'S PER WELL
250 mL poly w/ nitric acid
 ANALYSES: _____
 NWTPH-g _____
 BTEX-g _____
 Total Lead _____

PURGING EQUIPMENT: Geopump SAMPLING EQUIPMENT: YSI

Flow Through Cell Disconnected Prior to Sample Collection?: YES 0 NO _____

WELL PAD CONDITION: Good WELL CASING CONDITION: Good
 WELL VAULT CONDITION: Good SEAL PRESENT?: Yes BOLTS PRESENT?: 2/2
 WELL INTEGRITY: Good WELL TAG: yx LOCK#: N/A

REMARKS: well to be abandoned today

SIGNATURE: [Signature] Page 2 of 4

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 185750013 PURGED BY: Emily Harper WELL I.D.: MW-1
 CLIENT NAME: 7-Eleven SAMPLED BY: Emily Harper
 LOCATION: 19648 located at 3209 Northwest Avenue; Bellingham, WA

DATE PURGED 9/5/2014 START (2400hr) 9:10
 DATE SAMPLED 9/5/2014 SAMPLE TIME (2400hr) 9:30 LOW-FLOW USED Y/S
 SAMPLE TYPE: Groundwater x Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" _____ 4" _____ 6" (1")
 Casing Volume: (liters per foot) (0.16) (0.6) (1.46)

DEPTH TO BOTTOM (feet) = 12.93
 DEPTH TO WATER (feet) = 9.23
 WATER COLUMN HEIGHT (feet) = 3.70 ACTUAL PURGE (L) = 2.15L

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (L)	TEMP. (degrees C)	CONDUCTIVITY (MS/cm)	pH (units)	COLOR (visual)	O.R.P.
9/5/14	9:15	0.25	20.42	3.811	Ca.60	CLR	111.7
	9:18	0.75	20.01	3.743	Ca.61	CLR	109.7
	9:21	1.25	20.39	3.631	Ca.63	CLR	102.6
	9:24	1.75	20.33	3.579	Ca.64	CLR	99.2

Calculated Variance of Final Three Samples: _____
 Acceptable Variance Limits: ≤ 10% ≤ 3% ≤ 0.1 ≤ 10%

DEPTH TO PURGE INTAKE DURING PURGE: _____ SAMPLE DTW: _____

QTY OF SAMPLE VESSELS & PRESERVATIVE:
3-HCL VOA'S PER WELL
250 mL poly w/ nitric acid

ANALYSES:

 NWTPH-g
 BTEX-g
 Total Lead

PURGING EQUIPMENT: Geopump **SAMPLING EQUIPMENT:** YSI

Flow Through Cell Disconnected Prior to Sample Collection?: YES 8 NO _____

WELL PAD CONDITION: Good WELL CASING CONDITION: Good
 WELL VAULT CONDITION: Good SEAL PRESENT?: Y/S BOLTS PRESENT?: 2/2
 WELL INTEGRITY: Good WELL TAG: Y/S LOCK#: N/A

REMARKS: well to be abandoned today

SIGNATURE: [Signature] Page 3 of 4



WATER SAMPLE FIELD DATA SHEET

PROJECT #: 185750013 PURGED BY: Emily Harper WELL I.D.: Mw-4
CLIENT NAME: 7-Eleven SAMPLED BY: Emily Harper
LOCATION: 19648 located at 3209 Northwest Avenue, Bellingham, WA

DATE PURGED 9/5/2014 START (2400hr) 9:35
DATE SAMPLED 9/5/2014 SAMPLE TIME (2400hr) 10:00 LOW-FLOW USED Yes
SAMPLE TYPE: Groundwater x Surface Water Treatment Effluent Other

CASING DIAMETER: 2" 4" 6" 1"
Casing Volume: (liters per foot) (0.16) (0.6) (1.46) 1"

DEPTH TO BOTTOM (feet) = 12.26
DEPTH TO WATER (feet) = 9.22
WATER COLUMN HEIGHT (feet) = 3.04 ACTUAL PURGE (L) = 2.00

FIELD MEASUREMENTS

Table with columns: DATE, TIME, VOLUME, TEMP., CONDUCTIVITY, pH, COLOR, O.R.P.
Data rows include: 9/5/14, 9:46, 0.25, 18.88, 2.453, 6.81, CLR, 90.4
9:49, 0.75, 19.04, 2.439, 6.75, CLR, 93.3
9:52, 1.25, 19.06, 2.497, 6.72, CLR, 96.1
9:55, 1.75, 19.05, 2.508, 6.71, CLR, 98.9

Calculated Variance of Final Three Samples:
Acceptable Variance Limits: <= 10% <= 3% <= 0.1 <= 10%

DEPTH TO PURGE INTAKE DURING PURGE: 12.0 ft SAMPLE DTW: -

QTY OF SAMPLE VESSELS & PRESERVATIVE: 3-HCL VOA'S PER WELL 250 mL poly w/ nitric acid
ANALYSES: NWTTPH-g BTEX-g Total Lead

PURGING EQUIPMENT: Geopump SAMPLING EQUIPMENT: YSI

Flow Through Cell Disconnected Prior to Sample Collection?: YES [x] NO

WELL PAD CONDITION: Good WELL CASING CONDITION: Good
WELL VAULT CONDITION: Good SEAL PRESENT?: Yes BOLTS PRESENT?: 2/2
WELL INTEGRITY: Good WELL TAG: Yes LOCK#: N/A

REMARKS:

SIGNATURE: [Signature] Page 4 of 4

DAILY DRILLING LOG

JOB INFORMATION

CLIENT INFORMATION		TIME		COMMENTS
DATE:	9-5-14	TO:	FROM:	DESCRIPTION:
CLIENT:	Stan-tee	9:30	11:15	make
PROJECT:	711	11:15	11:45	Determine 3 12' wells
LOCATION:	Bellingham	11:45		Be make
RIG:				
AUGER/CASING SIZE:				
PPE LEVEL:				

DRILLING FOOTAGE			
DESCRIPTION:	QTY. (LF):	DESCRIPTION:	QTY. (LF):
HSA UNDER:		HSA OVER:	
ROTARY:		CORING HQ/NQ:	
ODEX:		CASING ADV.:	
EXTRA SPT's:		SHELBY TUBES:	

WELL INFORMATION				
B#:	FROM:	TO:	WELL DP.:	TAG#:

DRILLING TIME									
DESCRIPTION:	REG.	OT:	DESCRIPTION:	REG.:	OT:	DESCRIPTION:	REG.:	OT:	
STANDBY:			CASING:			TRAVEL:			
MOVING:			WELL DEVELOPMENT:			OTHER:			
DECON:			WELL ABANDONMENT:			OTHER:			
INSTALL:			ADDITIONAL MAN:			OTHER:			

MATERIALS							
DESCRIPTION:	QTY.:	DESCRIPTION:	QTY.:	DESCRIPTION:	QTY.:	DESCRIPTION:	QTY.:
SHELBY TUBE:		WELL SIZE:		ATV GATOR:		OTHER:	
BENTONITE CHIPS:		WELL TYPE:		AIR COMPRESSOR:		OTHER:	
QUIK-GEL:		CASING:		CORE BOX:		OTHER:	
QUIK- GROUT:		SCREEN:		DECON TRAILER:		OTHER:	
10/20 SAND:		SLOPE CASING:		EROSION CONTROL:		OTHER:	
OTHER SAND:		CAPS/PLUGS:		GENERATOR:		OTHER:	
REDIMIX:		MONUMENT FLUSH:		OTHER:		OTHER:	
CEMENT:		MONUMENT STAND-UP:		PERISTALIC PUMP:		OTHER:	
EZ STREET:		BOLLARDS:		PISTON SAMPLER:		OTHER:	
JET SET:		DRUMS FOR DISPOSAL:		PPE:		OTHER:	
PEA GRAVEL:		DRUMS LEFT ONSITE:		VISQUEEN:		OTHER:	

CLIENT APPROVALS (Ensures Client's figures agree with Holocene Drilling, Inc. figures)	
OVERTIME APPROVAL:	DRILLER'S ASSISTANT:
CLIENT SIGNATURE:	DRILLER'S ASSISTANT:
LEAD DRILLER SIGNATURE:	Thank you for choosing Holocene Drilling, Inc. We appreciate your business today! www.holocenedrillinginc.com

Chain of Custody Record



3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-552-3790
Fax: 206-352-7178

Client: STANTEC

Address: 1130 NE 33rd Pl Ste 200

City, State, Zip: BELLEVUE, WA 98004

Tel: 425-869-9448 x143

Reports To (PM): PAUL FAIRBAIRN

Fax: 425-869-1190

Email: PAUL.FAIRBAIRN@STANTEC.COM

Project No: 185750013

Laboratory Project No (Internal): _____ of: _____

Page: _____ of: _____

3014 GWM 19648

Bellingham, WA

EMILY HARPER

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)	Comments/Depth
1 MW-1	9/5/14	9:30	GW	
2 MW-2		8:30		
3 MW-3		9:00		
4 MW-4		10:00		
5				
6				
7				
8				
9				
10				

Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Se Sr Sn Ti Tl U V Zn

Metals Analysis (Cite): MTCA-5 RCRA-8 Priority Pollutants TAL
 Anions (Cite): Nitrate Nitrite Chloride Sulfate Bromide Fluoride Nitrate-Nitrite
 Disposal by Lab (A fee may be assessed if samples are retained after 30 days.)

Relinquished Date/Time: 9/5/14 13:45
 Relinquished Date/Time: 9/5/14 13:45
 Received Date/Time: 9/5/14 13:45
 Received Date/Time: 9/5/14 13:45

TAT -> Next Day 2 Day 3 Day STD

STANTEC MONITORING WELL PURGING AND SAMPLING PROCEDURES

Monitoring well purging and sampling was conducted using U.S. Environmental Protection Agency (EPA) approved low-flow sampling techniques.

Purging Procedures

- A. Using a decontaminated instrument (i.e., tape measure, continuity meter, or interface probe) measure the depth to groundwater in reference to the measuring point at the top of the casing. Measure the total depth of the well to calculate the height and volume of water in the borehole.
- B. Based on previously obtained data, if a monitoring well is suspected of containing liquid-phase hydrocarbon (LPH) concentrations, lower a transparent bailer into the well to evaluate the presence of a LPH sheen on the water table.
- C. Decontaminate the purge pump and/or PVC bailers by scrubbing in Alconox detergent solution, followed by a tap water rinse and then a deionized water rinse.
- D. Purge, by low-flow pumping (less than 0.5 liters per minute) for approximately five minutes. If low-flow purging is not possible and bailing is used to purge the well, then a minimum of three well volumes will be removed. If the well goes dry, the procedure listed in step E2 (below) should be followed. Parameters should be measured after each ½-casing volume is removed.
- E. Conduct field measurements (i.e., pH, specific conductivity, temperature, and oxidation-reduction potential) note clarity, color, turbidity, and odor of purge water, and measure depth to groundwater.
 1. If the well has not been purged dry, continue to pump and conduct field measurements (including depth to water) again every five minutes during purging.
 - a) If the first through third series of measurements vary by less than 10 percent, the well has been adequately purged. Allow the well to recover to 80 percent of its static condition and begin the sampling procedure.
 - b) If the measurements vary by 10 percent or greater, repeat Step E1 above.
 - c) If a minimum of three parameters cannot be measured during purging, remove three well volumes prior to sampling.
 2. If the well has been purged dry, measure the water level and allow the well to recharge to 80 percent, or for two hours, whichever occurs first. Calculate the percent recovery, and begin the sampling procedure.

Sampling Procedures

- Use the pump to collect the groundwater sample.
- Transfer the groundwater sample into the appropriate container(s). Where applicable, some containers are completely filled to achieve zero headspace. Label the samples according to location and date of collection.
- Enter the samples into Chain-of-Custody and preserve on ice until delivery to the analytical laboratory. Complete the Well Development or Purging/Sampling Log to be stored in the project file.

When requested by the client, collect a bailer rinse blank of deionized water to check decontamination procedure. In addition, trip blanks prepared by the laboratory and kept with the samples may be included to check for cross contamination of samples within the cooler. Additional and/or alternate QA/QC samples can be collected and analyzed upon client request.

APPENDIX B
LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION
UST SYSTEM REMOVAL REPORT
7-ELEVEN STORE NO. 25983

January 6, 2015

Please print, sign and return to the Department of Ecology

CURRENT Notice of Intent No. AE29055

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission ("x" in box)

- Construction
- Decommission

ORIGINAL INSTALLATION Notice of Intent Number:

R04414

Consulting Firm _____

Unique Ecology Well IDTag No. AER-836

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 Engineer Trainee
 Name (Print Last, First Name) Peterson, Trevor
 Driller/Engineer /Trainee Signature _____
 Driller or Trainee License No. 3008

If trainee, licensed driller's Signature and License Number:

- Type of Well ("x" in box)
- Resource Protection
 - Geotech Soil Boring

Property Owner 7Eleven Inc #25983

Site Address 3541 Martin Way E

City Olympia County Thurston

Location NE1/4-1/4 SE1/4 Sec 18 Twn 18 R 01

EWM or WWM

Lat/Long (s, t, r) Lat Deg _____ Min _____ Sec _____
 still REQUIRED) Long Deg _____ Min _____ Sec _____

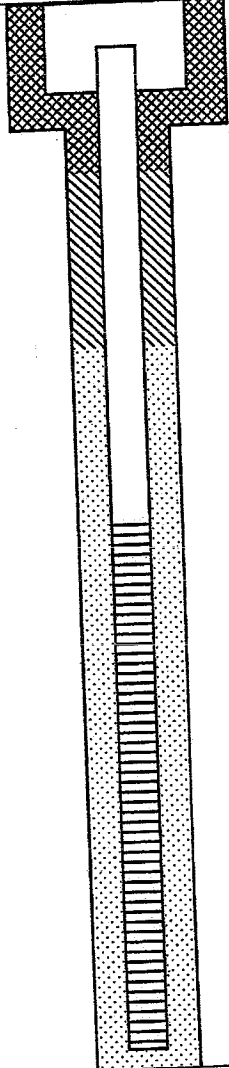
Tax Parcel No. 99000990600

Cased or Uncased Diameter 2" Static Level _____

Work/Decommission Start Date 10/6/14

Work/Decommission Completed Date 10/6/14

Construction Design



Well Data

MONUMENT TYPE:

Flush mount

REMOVED MONUMENT: YES / NO

PVC BLANK: _____

SCREEN: _____

WELL DEPTH: 36'

Formation Description

FORMATION NOT OBSERVED - WELL WAS DECOMMISSIONED

REMOVED MONUMENT: YES / NO

WELL WAS CHIPPED/GROUTED IN PLACE

ALL CASING WAS REMOVED AND BACKFILLED BOTTOM UP

SCALE: 1"= _____ PAGE 1 OF 2

Please print, sign and return to the Department of Ecology

CURRENT Notice of Intent No. AE29055

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission ("x" in box)

- Construction
- Decommission

ORIGINAL INSTALLATION Notice of Intent Number:

R04414

Consulting Firm _____

Unique Ecology Well IDTag No. AER-839

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 Engineer Trainee
 Name (Print Last, First Name) Peterson, Trevor
 Driller/Engineer/Trainee Signature _____
 Driller or Trainee License No. 3008

If trainee, licensed driller's Signature and License Number:

- Type of Well ("x" in box)
- Resource Protection
 - Geotech Soil Boring

Property Owner 7Eleven Inc #25983

Site Address 3541 Martin Way E

City Olympia County Thurston

Location NE1/4-1/4 SE1/4 Sec 18 Twn 18 R 01

EWM or WWM

Lat/Long (s, t, r Lat Deg _____ Min _____ Sec _____ still REQUIRED)

Long Deg _____ Min _____ Sec _____

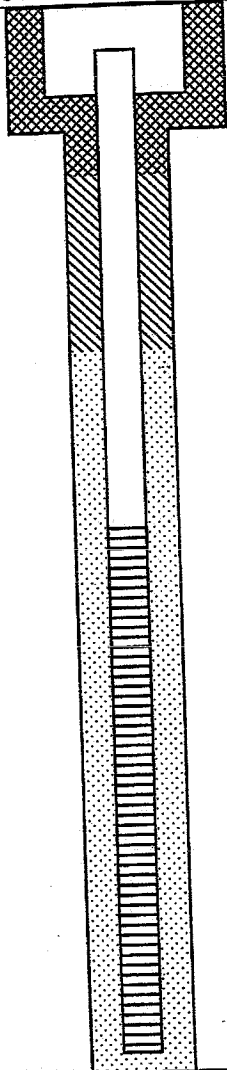
Tax Parcel No. 99000990600

Cased or Uncased Diameter 2" Static Level _____

Work/Decommission Start Date 10/6/14

Work/Decommission Completed Date 10/6/14

Construction Design



Well Data

MONUMENT TYPE: flush mount

REMOVED MONUMENT: YES / NO

PVC BLANK: _____

SCREEN: _____

WELL DEPTH: 36'

Formation Description

FORMATION NOT OBSERVED - WELL WAS DECOMMISSIONED

REMOVED MONUMENT: YES / NO

WELL WAS CHIPPED/GROUTED IN PLACE

ALL CASING WAS REMOVED AND BACKFILLED BOTTOM UP

October 16, 2014

Paul Fairbairn
Stantec Consulting Corp.
11130 NE 33rd Place, Suite 200
Bellevue, WA 98004

Dear Mr. Fairbairn:

Please find enclosed the analytical data report for the 7-Eleven #25983 Project in Olympia, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by Method 8260 on October 15, 2014.

The results of the analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed for your records.

ESN Northwest appreciates the opportunity to have provided services to ESA Assoc. for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,



Michael A. Korosec
President

ESN NORTHWEST CHEMISTRY LABORATORY

Stanlec Consulting
 PROJECT 25983 UST REMOVAL 2014
 Olympia, Washington

ESN Northwest
 1210 Eastside Street SE Suite 200
 Olympia, WA 98501
 (360) 459-4670 (360) 459-3432 Fax
 lab@esnmw.com

Analysis of Gasoline Range Organics & BTEX in Soil by Method NWTPH-Gx/8260

Sample Number	Date Prepared	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline Range Organics (mg/kg)	Surrogate Recovery (%)
Method Blank	10/15/2014	10/15/2014	nd	nd	nd	nd	nd	118
LCS	10/15/2014	10/15/2014	84%	91%	89%	94%	111%	105
LCS	10/15/2014	10/15/2014	78%	85%	85%	90%	---	103
SOUTHWALL@18'	10/15/2014	10/15/2014	nd	nd	0.09	1.8	280	115
NORTHWALL@18'	10/15/2014	10/15/2014	nd	nd	nd	nd	24	116
Reporting Limits			0.02	0.05	0.05	0.15	10	

"---" Indicates not tested for component.

"nd" Indicates not detected at the listed detection limits.

"Int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Bromofluorobenzene) & LCS : 65% TO 135%

CHAIN-OF-CUSTODY RECORD

CLIENT: W Steiner Consulting Services DATE: 10-15-14 PAGE 1 OF 1

ADDRESS: Bellvue, WA PROJECT NAME: 2-Fluor 25983

PHONE: 206-369-8383 FAX: _____ LOCATION: Olympia, WA

CLIENT PROJECT #: 185750046 PROJECT MANAGER: Paul Fairburn COLLECTOR: Emily Harper DATE OF COLLECTION: 10-15-14

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES											Total Number of Containers	Laboratory Note Number				
					TPH - HClD	TPH - Diesel & Oil	TPH - Gasoline	BTEX	VOC 8260CL	VOC 8260	SemiVol 8270	PAH's 8270	PCB's 8082	CL Pesticides 8082	RCRA 8 Metals			MTCA 5 Metals	Pb	Asbestos - PLM	GRO Suite
1. Section pull #19	18'	11:30	Soil	3um																	
2.		14:30																			
3. Northwell #19	18'	11:30	Soil	3um																	
4.																					
5.																					
6.																					
7.																					
8.																					
9.																					
10.																					
11.																					
12.																					
13.																					
14.																					
15.																					
16.																					
17.																					
18.																					
RELINQUISHED BY (Signature)					DATE/TIME	RECEIVED BY (Signature)					DATE/TIME	TOTAL NUMBER OF CONTAINERS		LABORATORY NOTES:							
					10-15-14						10-15-14	Some Day TAT									
RELINQUISHED BY (Signature)					DATE/TIME	RECEIVED BY (Signature)					DATE/TIME	CHAIN OF CUSTODY SEALS Y/N/NA		LABORATORY NOTES:							
					10-15-14						10-15-14	Paul Fairburn's Signature									
RELINQUISHED BY (Signature)					DATE/TIME	RECEIVED BY (Signature)					DATE/TIME	SEALS INTACT? Y/N/NA		LABORATORY NOTES:							
					10-15-14						10-15-14	Turn Around time: 24 HR 48 HR 5 DAY									
RELINQUISHED BY (Signature)					DATE/TIME	RECEIVED BY (Signature)					DATE/TIME	RECEIVED GOOD COND./COLD		LABORATORY NOTES:							
					10-15-14						10-15-14										

October 22, 2014

Paul Fairbairn
Stantec Consulting Corp.
11130 NE 33rd Place, Suite 200
Bellevue, WA 98004

Dear Mr. Fairbairn:

Please find enclosed the analytical data report for the 25983 UST Removal Project in Olympia, Washington. One soil sample was analyzed for Gasoline by NWTPH-Gx, BTEX by Method 8260, and Pb by Method 6020 on October 15, 2014.

The results of the analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed for your records.

ESN Northwest appreciates the opportunity to have provided services to ESA Assoc. for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,



Michael A. Korosec
President

ESN NORTHWEST CHEMISTRY LABORATORY

Stantec Consulting
 PROJECT 25983 UST REMOVAL 2014
 Olympia, Washington

ESN Northwest
 1210 Eastside Street SE Suite 200
 Olympia, WA 98501
 (360) 459-4670 (360) 459-3432 Fax
 lab@esnmw.com

Analysis of Gasoline Range Organics & BTEX in Soil by Method NW/TPH-Gx/8260

Sample Number	Date Prepared	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline Range Organics (mg/kg)	Surrogate Recovery (%)
Method Blank	10/15/2014	10/15/2014	nd	nd	nd	nd	nd	118
LCS	10/15/2014	10/15/2014	84%	91%	89%	94%	111%	105
LCS D	10/15/2014	10/15/2014	78%	85%	85%	90%	---	103
NORTHWALL@16'	10/15/2014	10/15/2014	nd	nd	nd	nd	63	115
Reporting Limits			0.02	0.05	0.05	0.15	10	

"---" Indicates not tested for component.
 "nd" Indicates not detected at the listed detection limits.
 "int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Bromofluorbenzene) & LCS : 65% TO 135%

ESN NORTHWEST CHEMISTRY LABORATORY

Stantec Consulting
 PROJECT 25983 UST REMOVAL 2014
 Olympia, Washington

ESN Northwest
 1210 Eastside Street SE Suite 200
 Olympia, WA 98501
 (360) 459-4670 (360) 459-3432 Fax
 lab@esnsw.com

Analysis of Total Lead in Soil by Method 6020A/3050B

Sample Number	Date Prepared	Date Analyzed	Lead (Pb) (mg/kg)
Method Blank	10/15/2014	10/16/2014	nd
NORTHWALL@16'	10/15/2014	10/16/2014	nd
Reporting Limit			5.0

"nd" Indicates not detected at listed detection limits.

QA/QC Data - Analysis of Total Metals in Soil by Method 6020A/3050B

Sample Number: QC Batch							
	Matrix Spike			Matrix Spike Duplicate			RPD (%)
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	
Lead (Pb)	98.5	86.2	87.5	87.7	81.0	92.4	5.39

Laboratory Control Sample			
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)
Lead (Pb)	100	86.1	86.1

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 80%-120%
 ACCEPTABLE RPD IS 35%

November 5, 2014

Paul Fairbairn
Stantec Consulting Corp.
11130 NE 33rd Place, Suite 200
Bellevue, WA 98004

Dear Mr. Fairbairn:

Please find enclosed the analytical data report for the 25983 UST Removal Project in Olympia, Washington. One soil sample was analyzed for EDB/EDC/MTBE by Method 8260, Pb by Method 6020, Naphthalene by Method 8270, and VPH by NWVPH on October 15 - 31, 2014.

The results of the analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed for your records.

ESN Northwest appreciates the opportunity to have provided services to ESA Assoc. for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,



Michael A. Korosec
President

ESN NORTHWEST CHEMISTRY LABORATORY

Stantec Consulting
PROJECT 25983 UST REMOVAL 2014
Olympia, Washington

ESN Northwest
1210 Eastside Street SE Suite 200
Olympia, WA 98501
(360) 459-4670 (360) 459-3432 Fax
lab@esnw.com

Analysis of Volatile Organic Compounds in Soil by Method 8260C/5035

	RL	MB	LCS	LCSD	SOUTHWALL@18'
Date extracted		10/15/14	10/15/14	10/15/14	10/15/14
Date analyzed	(mg/Kg)	10/15/14	10/15/14	10/15/14	10/15/14
% Moisture					11%
Methyl-t-butyl ether (MTBE)	0.05	nd	113%	110%	nd
1,2-Dichloroethane (EDC)	0.05	nd	89%	84%	nd
1,2-Dibromoethane (EDB)	0.01	nd	88%	84%	nd
Surrogate recoveries					
Dibromofluoromethane		94%	97%	98%	100%
Toluene-d8		110%	100%	101%	111%
4-Bromofluorobenzene		118%	105%	103%	115%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

ESN NORTHWEST CHEMISTRY LABORATORY

Stantec Consulting
 PROJECT MYRTLE STREET SITE
 PROJECT #185750299
 Hoquaim, Washington

ESN Northwest
 1210 Eastside Street SE Suite 200
 Olympia, WA 98501
 (360) 459-4670 (360) 459-3432 Fax
 lab@esnnw.com

Analysis of Polynuclear Aromatic Hydrocarbons in Soil by Method 8270

Analytical Results

		MTH BLK	LCS	South Wall @18'
Date extracted	Reporting	10/21/14	10/21/14	10/21/14
Date analyzed	Limits	10/21/14	10/21/14	10/21/14
Moisture, %	(mg/kg)			11%
Naphthalene	0.02	nd	125%	0.02
2-Methylnaphthalene	0.02	nd	124%	0.22
1-Methylnaphthalene	0.02	nd	ns	0.12
Total Carcinogens				nd
<u>Surrogate recoveries:</u>				
2-Fluorobiphenyl		105%	102%	113%
p-Terphenyl-d14		115%	110%	120%

Data Qualifiers and Analytical Comments

* - Carcinogenic Analyte
 nd - not detected at listed reporting limits
 ns - not spiked
 Results reported on dry-weight basis
 Acceptable Recovery limits: 50% TO 150%
 Acceptable RPD limit: 35%

ESN NORTHWEST CHEMISTRY LABORATORY

Stantec Consulting
 PROJECT 25983 UST REMOVAL 2014
 Olympia, Washington

ESN Northwest
 1210 Eastside Street SE Suite 200
 Olympia, WA 98501
 (360) 459-4670 (360) 459-3432 Fax
 lab@esnnw.com

Analysis of Total Lead in Soil by Method 6020A/3050B

Sample Number	Date Prepared	Date Analyzed	Lead (Pb) (mg/kg)
Method Blank	10/22/2014	10/24/2014	nd
SOUTHWALL@18'	10/22/2014	10/24/2014	nd
Reporting Limit			5.0

"nd" Indicates not detected at listed detection limits.

QA/QC Data - Analysis of Total Metals in Soil by Method 6020A/3050B

Sample Number: QC Batch							
	Matrix Spike			Matrix Spike Duplicate			RPD
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	(%)
Lead (Pb)	88.9	92.1	104	92.6	96.7	104	0.80

Laboratory Control Sample			
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)
Lead (Pb)	100	96.3	96.3

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 80%-120%
 ACCEPTABLE RPD IS 35%



October 31, 2014

Mr. Steve Loague
ESN
1210 Eastside St SE, Suite 200
Olympia, WA 98501

Dear Mr. Loague,

On October 21st, 1 sample was received by our laboratory and assigned our laboratory project number EV14100125. The project was identified as your Proj #25983 / Proj Name: UST Removal 2014. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT:	ESN 1210 Eastside St SE, Suite 200 Olympia, WA 98501	DATE:	10/31/2014
CLIENT CONTACT:	Steve Loague	ALS JOB#:	EV14100125
CLIENT PROJECT:	Proj #25983 / Proj Name: UST Removal 2014	ALS SAMPLE#:	EV14100125-01
CLIENT SAMPLE ID	South Wall @ 18"	DATE RECEIVED:	10/21/2014
		COLLECTION DATE:	10/15/2014 2:20:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
C5-C6 Aliphatics	NWVPH	U	5.0	1	MG/KG	10/27/2014	DLC
>C6-C8 Aliphatics	NWVPH	6.3	5.0	1	MG/KG	10/27/2014	DLC
>C8-C10 Aliphatics	NWVPH	6.0	5.0	1	MG/KG	10/27/2014	DLC
>C10-C12 Aliphatics	NWVPH	U	5.0	1	MG/KG	10/27/2014	DLC
>C8-C10 Aromatics	NWVPH	26	5.0	1	MG/KG	10/27/2014	DLC
>C10-C12 Aromatics	NWVPH	64	5.0	1	MG/KG	10/27/2014	DLC
>C12-C13 Aromatics	NWVPH	48	5.0	1	MG/KG	10/27/2014	DLC
Hexane	NWVPH	0.88	0.20	1	MG/KG	10/27/2014	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT - Aliphatic	NWVPH	108	10/27/2014	DLC
TFT - Aromatic	NWVPH	119	10/27/2014	DLC
TFT - Hexane	NWVPH	112	10/27/2014	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	ESN 1210 Eastside St SE, Suite 200 Olympia, WA 98501	DATE:	10/31/2014
CLIENT CONTACT:	Steve Loague	ALS SDG#:	EV14100125
CLIENT PROJECT:	Proj #25983 / Proj Name: UST Removal 2014	WDOE ACCREDITATION:	C601

LABORATORY BLANK RESULTS

MBLK-244002 - Batch R244002 - Soil by NWVPH

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
C5-C6 Aliphatics	NWVPH	U	5.0	1	MG/KG	10/27/2014	DLC
>C6-C8 Aliphatics	NWVPH	U	5.0	1	MG/KG	10/27/2014	DLC
>C8-C10 Aliphatics	NWVPH	U	5.0	1	MG/KG	10/27/2014	DLC
>C10-C12 Aliphatics	NWVPH	U	5.0	1	MG/KG	10/27/2014	DLC
>C8-C10 Aromatics	NWVPH	U	5.0	1	MG/KG	10/27/2014	DLC
>C10-C12 Aromatics	NWVPH	U	5.0	1	MG/KG	10/27/2014	DLC
>C12-C13 Aromatics	NWVPH	U	5.0	1	MG/KG	10/27/2014	DLC
Hexane	NWVPH	U	0.20	1	MG/KG	10/27/2014	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	ESN 1210 Eastside St SE, Suite 200 Olympia, WA 98501	DATE:	10/31/2014
CLIENT CONTACT:	Steve Loague	ALS SDG#:	EV14100125
CLIENT PROJECT:	Proj #25983 / Proj Name: UST Removal 2014	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: R244002 - Soil by NWVPH

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
C5-C6 Aliphatics - BS	NWVPH	90.5			10/27/2014	DLC
C5-C6 Aliphatics - BSD	NWVPH	110	19		10/27/2014	DLC
>C6-C8 Aliphatics - BS	NWVPH	95.6			10/27/2014	DLC
>C6-C8 Aliphatics - BSD	NWVPH	111	15		10/27/2014	DLC
>C8-C10 Aliphatics - BS	NWVPH	84.3			10/27/2014	DLC
>C8-C10 Aliphatics - BSD	NWVPH	95.9	13		10/27/2014	DLC
>C10-C12 Aliphatics - BS	NWVPH	82.2			10/27/2014	DLC
>C10-C12 Aliphatics - BSD	NWVPH	96.0	16		10/27/2014	DLC
>C8-C10 Aromatics - BS	NWVPH	95.3			10/27/2014	DLC
>C8-C10 Aromatics - BSD	NWVPH	98.0	3		10/27/2014	DLC
>C10-C12 Aromatics - BS	NWVPH	90.6			10/27/2014	DLC
>C10-C12 Aromatics - BSD	NWVPH	102	12		10/27/2014	DLC
>C12-C13 Aromatics - BS	NWVPH	89.2			10/27/2014	DLC
>C12-C13 Aromatics - BSD	NWVPH	119	28		10/27/2014	DLC
Hexane - BS	NWVPH	103			10/27/2014	DLC
Hexane - BSD	NWVPH	125	19		10/27/2014	DLC

APPROVED BY

Laboratory Director

Jennifer Arnold

From: Fairbairn, Paul [Paul.Fairbairn@stantec.com]
Sent: Friday, October 17, 2014 4:07 PM
To: Jennifer Arnold
Cc: Harper, Emily
Subject: RE: 25983 UST

Jennifer,

The sample in the next batch Southwall@18' needs to be run for the following
✓ EDB, ✓ EDC, ✓ MtBE, ✓ lead, VPH, and ✓ Naphthalenes for standard turnaround time.

Thanks

Paul Fairbairn
Project Manager
Stantec
11130 NE 33rd Place, Suite 200, Bellevue WA 98004-1465
Phone: (425) 289-7343
Cell: (206) 369-8383
Fax: (425) 869-1190
Paul.Fairbairn@stantec.com

stantec.com

Celebrating 60 years of community, creativity, and client relationships.

The content of this email is the confidential property of Stantec and should not be copied, modified, retransmitted, or used for any purpose except with Stantec's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

Please consider the environment before printing this email.

-----Original Message-----

From: Jennifer Arnold [<mailto:Lab@ESNNW.Com>]
Sent: Friday, October 17, 2014 4:02 PM
To: Fairbairn, Paul
Cc: Harper, Emily
Subject: 25983 UST

Paul,

Here are the results for the sample submitted on the 15th.

Thanks

ESN Northwest Chemistry Laboratory
1210 Eastside St. SE Ste 200
Olympia, WA 98501
PH: 360-459-4670
FX: 360-459-3432
EM: lab@esnnw.com



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Stantec Consulting Corporation
Paul Fairbairn
11130 NE 33rd Pl, Suite 200
Bellevue, WA 98004

RE: 1Q14 GWM 25983
Lab ID: 1404090

April 17, 2014

Attention Paul Fairbairn:

Fremont Analytical, Inc. received 5 sample(s) on 4/10/2014 for the analyses presented in the following report.

1,2-Dibromoethane (EDB) by EPA Method 8011
Gasoline by NWTPH-Gx
Total Metals by EPA Method 200.8
Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "M. Dee".

Michael Dee
Sr. Chemist / Principal



Date: 04/17/2014

CLIENT: Stantec Consulting Corporation
Project: 1Q14 GWM 25983
Lab Order: 1404090

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1404090-001	MW-1	04/08/2014 10:15 AM	04/10/2014 9:00 AM
1404090-002	MW-2	04/08/2014 11:30 AM	04/10/2014 9:00 AM
1404090-003	MW-3	04/08/2014 12:00 PM	04/10/2014 9:00 AM
1404090-004	MW-4	04/08/2014 10:40 AM	04/10/2014 9:00 AM
1404090-005	MW-5	04/08/2014 9:20 AM	04/10/2014 9:00 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Stantec Consulting Corporation**Project:** 1Q14 GWM 25983

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Analytical Report

WO#: 1404090

Date Reported: 4/17/2014

Client: Stantec Consulting Corporation

Collection Date: 4/8/2014 10:15:00 AM

Project: 1Q14 GWM 25983

Lab ID: 1404090-001

Matrix: Water

Client Sample ID: MW-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>1,2-Dibromoethane (EDB) by EPA Method 8011</u>				Batch ID: 7136		Analyst: PH
1,2-Dibromoethane (EDB)	ND	0.00922		µg/L	1	4/12/2014 12:37:00 AM
<u>Gasoline by NWTPH-Gx</u>				Batch ID: R13620		Analyst: EM
Gasoline	ND	50.0		µg/L	1	4/14/2014 2:32:00 AM
Surr: 4-Bromofluorobenzene	101	65-135		%REC	1	4/14/2014 2:32:00 AM
Surr: Toluene-d8	98.1	65-135		%REC	1	4/14/2014 2:32:00 AM
<u>Volatile Organic Compounds by EPA Method 8260</u>				Batch ID: R13621		Analyst: EM
Methyl tert-butyl ether (MTBE)	ND	1.00		µg/L	1	4/14/2014 2:32:00 AM
EDC	ND	1.00		µg/L	1	4/14/2014 2:32:00 AM
Benzene	ND	1.00		µg/L	1	4/14/2014 2:32:00 AM
Toluene	ND	1.00		µg/L	1	4/14/2014 2:32:00 AM
Ethylbenzene	ND	1.00		µg/L	1	4/14/2014 2:32:00 AM
m,p-Xylene	ND	1.00		µg/L	1	4/14/2014 2:32:00 AM
o-Xylene	ND	1.00		µg/L	1	4/14/2014 2:32:00 AM
Surr: Dibromofluoromethane	101	61.7-130		%REC	1	4/14/2014 2:32:00 AM
Surr: Toluene-d8	98.5	62.1-129		%REC	1	4/14/2014 2:32:00 AM
Surr: 1-Bromo-4-fluorobenzene	101	66.8-124		%REC	1	4/14/2014 2:32:00 AM
<u>Total Metals by EPA Method 200.8</u>				Batch ID: 7122		Analyst: MC
Lead	1.77	1.00		µg/L	1	4/11/2014 5:34:16 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1404090

Date Reported: 4/17/2014

Client: Stantec Consulting Corporation

Collection Date: 4/8/2014 11:30:00 AM

Project: 1Q14 GWM 25983

Lab ID: 1404090-002

Matrix: Water

Client Sample ID: MW-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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1,2-Dibromoethane (EDB) by EPA Method 8011

Batch ID: 7136 Analyst: PH

1,2-Dibromoethane (EDB)	ND	0.00932		µg/L	1	4/12/2014 12:48:00 AM
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Gasoline by NWTPH-Gx

Batch ID: R13620 Analyst: EM

Gasoline	ND	50.0		µg/L	1	4/14/2014 3:01:00 AM
Surr: 4-Bromofluorobenzene	98.0	65-135		%REC	1	4/14/2014 3:01:00 AM
Surr: Toluene-d8	99.4	65-135		%REC	1	4/14/2014 3:01:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R13621 Analyst: EM

Methyl tert-butyl ether (MTBE)	ND	1.00		µg/L	1	4/14/2014 3:01:00 AM
1,2-Dichloroethane	ND	1.00		µg/L	1	4/14/2014 3:01:00 AM
Benzene	ND	1.00		µg/L	1	4/14/2014 3:01:00 AM
Toluene	ND	1.00		µg/L	1	4/14/2014 3:01:00 AM
Ethylbenzene	ND	1.00		µg/L	1	4/14/2014 3:01:00 AM
m,p-Xylene	ND	1.00		µg/L	1	4/14/2014 3:01:00 AM
o-Xylene	ND	1.00		µg/L	1	4/14/2014 3:01:00 AM
Surr: Dibromofluoromethane	102	61.7-130		%REC	1	4/14/2014 3:01:00 AM
Surr: Toluene-d8	101	62.1-129		%REC	1	4/14/2014 3:01:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.7	66.8-124		%REC	1	4/14/2014 3:01:00 AM

Total Metals by EPA Method 200.8

Batch ID: 7122 Analyst: MC

Lead	13.2	1.00		µg/L	1	4/11/2014 5:46:21 AM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1404090

Date Reported: 4/17/2014

Client: Stantec Consulting Corporation

Collection Date: 4/8/2014 12:00:00 PM

Project: 1Q14 GWM 25983

Lab ID: 1404090-003

Matrix: Water

Client Sample ID: MW-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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1,2-Dibromoethane (EDB) by EPA Method 8011

Batch ID: 7136

Analyst: PH

1,2-Dibromoethane (EDB)	ND	0.00969		µg/L	1	4/12/2014 12:53:00 AM
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Gasoline by NWTPH-Gx

Batch ID: R13620

Analyst: EM

Gasoline	ND	50.0		µg/L	1	4/14/2014 3:31:00 AM
Surr: 4-Bromofluorobenzene	102	65-135		%REC	1	4/14/2014 3:31:00 AM
Surr: Toluene-d8	99.5	65-135		%REC	1	4/14/2014 3:31:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R13621

Analyst: EM

Methyl tert-butyl ether (MTBE)	ND	1.00		µg/L	1	4/14/2014 3:31:00 AM
1,2-Dichloroethane	ND	1.00		µg/L	1	4/14/2014 3:31:00 AM
Benzene	ND	1.00		µg/L	1	4/14/2014 3:31:00 AM
Toluene	ND	1.00		µg/L	1	4/14/2014 3:31:00 AM
Ethylbenzene	ND	1.00		µg/L	1	4/14/2014 3:31:00 AM
m,p-Xylene	ND	1.00		µg/L	1	4/14/2014 3:31:00 AM
o-Xylene	ND	1.00		µg/L	1	4/14/2014 3:31:00 AM
Surr: Dibromofluoromethane	99.1	61.7-130		%REC	1	4/14/2014 3:31:00 AM
Surr: Toluene-d8	100	62.1-129		%REC	1	4/14/2014 3:31:00 AM
Surr: 1-Bromo-4-fluorobenzene	101	66.8-124		%REC	1	4/14/2014 3:31:00 AM

Total Metals by EPA Method 200.8

Batch ID: 7122

Analyst: MC

Lead	6.10	1.00		µg/L	1	4/11/2014 5:58:27 AM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1404090

Date Reported: 4/17/2014

Client: Stantec Consulting Corporation

Collection Date: 4/8/2014 10:40:00 AM

Project: 1Q14 GWM 25983

Lab ID: 1404090-004

Matrix: Water

Client Sample ID: MW-4

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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1,2-Dibromoethane (EDB) by EPA Method 8011

Batch ID: 7136

Analyst: PH

1,2-Dibromoethane (EDB)	ND	0.00952		µg/L	1	4/12/2014 12:59:00 AM
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Gasoline by NWTPH-Gx

Batch ID: R13620

Analyst: EM

Gasoline	ND	50.0		µg/L	1	4/14/2014 4:01:00 AM
Surr: 4-Bromofluorobenzene	102	65-135		%REC	1	4/14/2014 4:01:00 AM
Surr: Toluene-d8	99.5	65-135		%REC	1	4/14/2014 4:01:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R13621

Analyst: EM

Methyl tert-butyl ether (MTBE)	ND	1.00		µg/L	1	4/14/2014 4:01:00 AM
1,2-Dichloroethane	ND	1.00		µg/L	1	4/14/2014 4:01:00 AM
Benzene	ND	1.00		µg/L	1	4/14/2014 4:01:00 AM
Toluene	ND	1.00		µg/L	1	4/14/2014 4:01:00 AM
Ethylbenzene	ND	1.00		µg/L	1	4/14/2014 4:01:00 AM
m,p-Xylene	ND	1.00		µg/L	1	4/14/2014 4:01:00 AM
o-Xylene	ND	1.00		µg/L	1	4/14/2014 4:01:00 AM
Surr: Dibromofluoromethane	102	61.7-130		%REC	1	4/14/2014 4:01:00 AM
Surr: Toluene-d8	99.8	62.1-129		%REC	1	4/14/2014 4:01:00 AM
Surr: 1-Bromo-4-fluorobenzene	102	66.8-124		%REC	1	4/14/2014 4:01:00 AM

Total Metals by EPA Method 200.8

Batch ID: 7122

Analyst: MC

Lead	6.48	1.00		µg/L	1	4/11/2014 6:10:33 AM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1404090

Date Reported: 4/17/2014

Client: Stantec Consulting Corporation
Project: 1Q14 GWM 25983
Lab ID: 1404090-005
Client Sample ID: MW-5

Collection Date: 4/8/2014 9:20:00 AM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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1,2-Dibromoethane (EDB) by EPA Method 8011

Batch ID: 7136 Analyst: PH

1,2-Dibromoethane (EDB)	ND	0.00962		µg/L	1	4/12/2014 1:10:00 AM
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Gasoline by NWTPH-Gx

Batch ID: R13620 Analyst: EM

Gasoline	ND	50.0		µg/L	1	4/14/2014 4:30:00 AM
Surr: 4-Bromofluorobenzene	102	65-135		%REC	1	4/14/2014 4:30:00 AM
Surr: Toluene-d8	99.9	65-135		%REC	1	4/14/2014 4:30:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R13621 Analyst: EM

Methyl tert-butyl ether (MTBE)	ND	1.00		µg/L	1	4/14/2014 4:30:00 AM
1,2-Dichloroethane	ND	1.00		µg/L	1	4/14/2014 4:30:00 AM
Benzene	ND	1.00		µg/L	1	4/14/2014 4:30:00 AM
Toluene	ND	1.00		µg/L	1	4/14/2014 4:30:00 AM
Ethylbenzene	ND	1.00		µg/L	1	4/14/2014 4:30:00 AM
m,p-Xylene	ND	1.00		µg/L	1	4/14/2014 4:30:00 AM
o-Xylene	ND	1.00		µg/L	1	4/14/2014 4:30:00 AM
Surr: Dibromofluoromethane	101	61.7-130		%REC	1	4/14/2014 4:30:00 AM
Surr: Toluene-d8	101	62.1-129		%REC	1	4/14/2014 4:30:00 AM
Surr: 1-Bromo-4-fluorobenzene	101	66.8-124		%REC	1	4/14/2014 4:30:00 AM

Total Metals by EPA Method 200.8

Batch ID: 7122 Analyst: MC

Lead	2.51	1.00		µg/L	1	4/11/2014 6:22:38 AM
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Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1404090
CLIENT: Stantec Consulting Corporation
Project: 1Q14 GWM 25983

QC SUMMARY REPORT
Total Metals by EPA Method 200.8

Sample ID: MB-7122	SampType: MBLK	Units: µg/L	Prep Date: 4/10/2014	RunNo: 13540							
Client ID: MBLKW	Batch ID: 7122	Analysis Date: 4/11/2014	SeqNo: 273292								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 1.00

Sample ID: LCS-7122	SampType: LCS	Units: µg/L	Prep Date: 4/10/2014	RunNo: 13540							
Client ID: LCSW	Batch ID: 7122	Analysis Date: 4/11/2014	SeqNo: 273293								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 42.6 1.00 50.00 0 85.2 85 115

Sample ID: 1404079-001ADUP	SampType: DUP	Units: µg/L	Prep Date: 4/10/2014	RunNo: 13540							
Client ID: BATCH	Batch ID: 7122	Analysis Date: 4/11/2014	SeqNo: 273297								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 4.00 1.00 3.961 0.955 30

Sample ID: 1404079-001AMS	SampType: MS	Units: µg/L	Prep Date: 4/10/2014	RunNo: 13540							
Client ID: BATCH	Batch ID: 7122	Analysis Date: 4/11/2014	SeqNo: 273298								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 211 1.00 250.0 3.961 82.9 70 130

Sample ID: 1404079-001AMSD	SampType: MSD	Units: µg/L	Prep Date: 4/10/2014	RunNo: 13540							
Client ID: BATCH	Batch ID: 7122	Analysis Date: 4/11/2014	SeqNo: 273299								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 199 1.00 250.0 3.961 78.0 70 130 211.1 5.90 30

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
D Dilution was required
J Analyte detected below quantitation limits
RL Reporting Limit
E Value above quantitation range
ND Not detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Work Order: 1404090
CLIENT: Stantec Consulting Corporation
Project: 1Q14 GWM 25983

QC SUMMARY REPORT

1,2-Dibromoethane (EDB) by EPA Method 8011

Sample ID: MB-7136	SampType: MBLK	Units: µg/L	Prep Date: 4/11/2014	RunNo: 13564							
Client ID: MBLKW	Batch ID: 7136		Analysis Date: 4/12/2014	SeqNo: 273866							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2-Dibromoethane (EDB) ND 0.0100

Sample ID: LCS-7136	SampType: LCS	Units: µg/L	Prep Date: 4/11/2014	RunNo: 13564							
Client ID: LCSW	Batch ID: 7136		Analysis Date: 4/12/2014	SeqNo: 273867							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2-Dibromoethane (EDB) 1.04 0.0100 1.000 0 104 60 140

Sample ID: 1404090-001BDUP	SampType: DUP	Units: µg/L	Prep Date: 4/11/2014	RunNo: 13564							
Client ID: MW-1	Batch ID: 7136		Analysis Date: 4/12/2014	SeqNo: 273869							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2-Dibromoethane (EDB) ND 0.00941 0 30

Sample ID: 1404090-004BMS	SampType: MS	Units: µg/L	Prep Date: 4/11/2014	RunNo: 13564							
Client ID: MW-4	Batch ID: 7136		Analysis Date: 4/12/2014	SeqNo: 273873							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2-Dibromoethane (EDB) 0.957 0.00942 0.9423 0 102 60 140

Qualifiers: B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit
R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits

Work Order: 1404090
CLIENT: Stantec Consulting Corporation
Project: 1Q14 GWM 25983

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: 1404091-009ADUP	SampType: DUP	Units: µg/L	Prep Date: 4/14/2014	RunNo: 13620							
Client ID: BATCH	Batch ID: R13620		Analysis Date: 4/14/2014	SeqNo: 275025							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	50.0						0		30	
Surr: Toluene-d8	50.5		50.00		101	65	135		0	0	
Surr: 4-Bromofluorobenzene	48.9		50.00		97.8	65	135		0	0	

Sample ID: LCS-R13620	SampType: LCS	Units: µg/L	Prep Date: 4/13/2014	RunNo: 13620							
Client ID: LCSW	Batch ID: R13620		Analysis Date: 4/13/2014	SeqNo: 275028							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	473	50.0	500.0	0	94.5	65	135				
Surr: Toluene-d8	50.5		50.00		101	65	135				
Surr: 4-Bromofluorobenzene	49.9		50.00		99.8	65	135				

Sample ID: MB-R13620	SampType: MBLK	Units: µg/L	Prep Date: 4/13/2014	RunNo: 13620							
Client ID: MBLKW	Batch ID: R13620		Analysis Date: 4/13/2014	SeqNo: 275029							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	50.0									
Surr: Toluene-d8	50.4		50.00		101	65	135				
Surr: 4-Bromofluorobenzene	50.8		50.00		102	65	135				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1404090
CLIENT: Stantec Consulting Corporation
Project: 1Q14 GWM 25983

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: 1404091-009ADUP	SampType: DUP	Units: µg/L	Prep Date: 4/14/2014	RunNo: 13621							
Client ID: BATCH	Batch ID: R13621		Analysis Date: 4/14/2014	SeqNo: 275049							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	1.00						0		30	
1,2-Dichloroethane	ND	0.500						0		30	
Benzene	ND	0.500						0		30	
Toluene	ND	0.500						0		30	
Ethylbenzene	ND	0.500						0		30	
m,p-Xylene	ND	0.500						0		30	
o-Xylene	ND	0.500						0		30	
Surr: Dibromofluoromethane	49.9		50.00		99.8	61.7	130		0		
Surr: Toluene-d8	49.9		50.00		99.9	62.1	129		0		
Surr: 1-Bromo-4-fluorobenzene	49.6		50.00		99.1	66.8	124		0		

Sample ID: 1404092-001AMS	SampType: MS	Units: µg/L	Prep Date: 4/14/2014	RunNo: 13621							
Client ID: BATCH	Batch ID: R13621		Analysis Date: 4/14/2014	SeqNo: 275051							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	19.9	1.00	20.00	0	99.3	60.9	132				
1,2-Dichloroethane	21.2	0.500	20.00	0	106	63.4	137				
Benzene	20.4	0.500	20.00	0	102	65.4	138				
Toluene	20.4	0.500	20.00	0	102	64	139				
Ethylbenzene	19.7	0.500	20.00	0	98.4	64.5	136				
m,p-Xylene	39.1	0.500	40.00	0	97.7	63.3	135				
o-Xylene	19.4	0.500	20.00	0	96.9	65.4	134				
Surr: Dibromofluoromethane	49.2		50.00		98.4	61.7	130				
Surr: Toluene-d8	50.8		50.00		102	62.1	129				
Surr: 1-Bromo-4-fluorobenzene	52.4		50.00		105	66.8	124				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1404090
CLIENT: Stantec Consulting Corporation
Project: 1Q14 GWM 25983

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: LCS-R13621	SampType: LCS	Units: µg/L				Prep Date: 4/13/2014	RunNo: 13621				
Client ID: LCSW	Batch ID: R13621					Analysis Date: 4/13/2014	SeqNo: 275057				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	20.7	1.00	20.00	0	104	67.7	131				
1,2-Dichloroethane	22.0	0.500	20.00	0	110	70	129				
Benzene	21.3	0.500	20.00	0	107	76	123				
Toluene	21.1	0.500	20.00	0	105	71.5	130				
Ethylbenzene	20.4	0.500	20.00	0	102	72	130				
m,p-Xylene	40.3	0.500	40.00	0	101	73	131				
o-Xylene	20.0	0.500	20.00	0	100	72.1	131				
Surr: Dibromofluoromethane	50.5		50.00		101	61.7	130				
Surr: Toluene-d8	51.1		50.00		102	62.1	129				
Surr: 1-Bromo-4-fluorobenzene	50.6		50.00		101	66.8	124				

Sample ID: MB-R13621	SampType: MBLK	Units: µg/L				Prep Date: 4/13/2014	RunNo: 13621				
Client ID: MBLKW	Batch ID: R13621					Analysis Date: 4/13/2014	SeqNo: 275058				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	1.00									
1,2-Dichloroethane	ND	0.500									
Benzene	ND	0.500									
Toluene	ND	0.500									
Ethylbenzene	ND	0.500									
m,p-Xylene	ND	0.500									
o-Xylene	ND	0.500									
Surr: Dibromofluoromethane	51.8		50.00		104	61.7	130				
Surr: Toluene-d8	50.4		50.00		101	62.1	129				
Surr: 1-Bromo-4-fluorobenzene	51.0		50.00		102	66.8	124				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Client Name: **STANTEC**
 Logged by: **Chelsea Ward**

Work Order Number: **1404090**
 Date Received: **4/10/2014 9:00:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 5. Custody seals intact on shipping container/cooler? Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is the headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C	Condition
Cooler	6.8	Good
Sample	7.7	Good



Fremont Analytical

Chain of Custody Record

3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Date: 4/8/14

Laboratory Project No (Internal): 14D4090

Client: STANTEC
Address: 1130 NE 33rd Ave 200
City, State, Zip: Bellevue WA 98004

Project Name: 1014 GWM 25983
Location: OLMPA, WA
Collected by: EMILY HAEPER

Reports To (PM): PAUL FAIRBANKS

Email: PAUL.FAIRBANKS@STANTEC.COM
Project No: 185750040

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Testing Methodologies															Comments/Depth
				VOC (EPA 8260)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HClD)	Diesel/Heavy Oil Range Organics (DX)	SEM-VOL (EPA 8270)	PAH (EPA 8270 - SIM)	PCBs (EPA 8082)	Metals** (6020 / 200.8)	Lead (Pb) (D)	Anions (IC)**	EDB (8011)	EDC	MTBE	
1 MW-1	4/8/14	1015	H ₂ O	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
2 MW-2		1130		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
3 MW-3		1200		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
4 MW-4		1040		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
5 MW-5		920		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
6																			
7																			
8																			
9																			
10																			

**Metals Analysis (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Fluoride Nitrate+Nitrite
 Return to Client Disposal by Lab (A fee may be assessed if samples are retained after 30 days.)

Relinquished Date/Time: 4/19/14 3:15 Received Date/Time: 4/10/14 9:00
 Relinquished Date/Time: _____ Received Date/Time: _____
 Signature: _____ Signature: _____

TAT -> SameDay[®] NextDay[®] 2 Day 3 Day STD
 *Please coordinate with the lab in advance



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Stantec Consulting Corporation
Paul Fairbairn
11130 NE 33rd Pl, Suite 200
Bellevue, WA 98004

RE: 3Q14 GWM 25983
Lab ID: 1409246

September 30, 2014

Attention Paul Fairbairn:

Fremont Analytical, Inc. received 5 sample(s) on 9/23/2014 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway".

Mike Ridgeway
President



Date: 09/30/2014

CLIENT: Stantec Consulting Corporation
Project: 3Q14 GWM 25983
Lab Order: 1409246

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1409246-001	MW-1	09/23/2014 12:00 AM	09/23/2014 12:58 PM
1409246-002	MW-2	09/23/2014 12:00 AM	09/23/2014 12:58 PM
1409246-003	MW-3	09/23/2014 12:00 AM	09/23/2014 12:58 PM
1409246-004	MW-4	09/23/2014 12:00 AM	09/23/2014 12:58 PM
1409246-005	MW-5	09/23/2014 12:00 AM	09/23/2014 12:58 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Stantec Consulting Corporation**Project:** 3Q14 GWM 25983

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Analytical Report

WO#: 1409246

Date Reported: 9/30/2014

Client: Stantec Consulting Corporation

Collection Date: 9/23/2014

Project: 3Q14 GWM 25983

Lab ID: 1409246-001

Matrix: Groundwater

Client Sample ID: MW-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17075 Analyst: BC

Gasoline	ND	50.0		µg/L	1	9/26/2014 9:26:00 PM
Surr: 4-Bromofluorobenzene	98.2	65-135		%REC	1	9/26/2014 9:26:00 PM
Surr: Toluene-d8	96.7	65-135		%REC	1	9/26/2014 9:26:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R17071 Analyst: BC

Benzene	ND	1.00		µg/L	1	9/26/2014 9:26:00 PM
Toluene	ND	1.00		µg/L	1	9/26/2014 9:26:00 PM
Ethylbenzene	ND	1.00		µg/L	1	9/26/2014 9:26:00 PM
m,p-Xylene	ND	1.00		µg/L	1	9/26/2014 9:26:00 PM
o-Xylene	ND	1.00		µg/L	1	9/26/2014 9:26:00 PM
Surr: Dibromofluoromethane	97.3	61.7-130		%REC	1	9/26/2014 9:26:00 PM
Surr: Toluene-d8	101	40.1-139		%REC	1	9/26/2014 9:26:00 PM
Surr: 1-Bromo-4-fluorobenzene	101	68.2-127		%REC	1	9/26/2014 9:26:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1409246

Date Reported: 9/30/2014

Client: Stantec Consulting Corporation

Collection Date: 9/23/2014

Project: 3Q14 GWM 25983

Lab ID: 1409246-002

Matrix: Groundwater

Client Sample ID: MW-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17075 Analyst: BC

Gasoline	ND	50.0		µg/L	1	9/26/2014 10:22:00 PM
Surr: 4-Bromofluorobenzene	98.5	65-135		%REC	1	9/26/2014 10:22:00 PM
Surr: Toluene-d8	96.9	65-135		%REC	1	9/26/2014 10:22:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R17071 Analyst: BC

Benzene	ND	1.00		µg/L	1	9/26/2014 10:22:00 PM
Toluene	ND	1.00		µg/L	1	9/26/2014 10:22:00 PM
Ethylbenzene	ND	1.00		µg/L	1	9/26/2014 10:22:00 PM
m,p-Xylene	ND	1.00		µg/L	1	9/26/2014 10:22:00 PM
o-Xylene	ND	1.00		µg/L	1	9/26/2014 10:22:00 PM
Surr: Dibromofluoromethane	94.4	61.7-130		%REC	1	9/26/2014 10:22:00 PM
Surr: Toluene-d8	96.8	40.1-139		%REC	1	9/26/2014 10:22:00 PM
Surr: 1-Bromo-4-fluorobenzene	101	68.2-127		%REC	1	9/26/2014 10:22:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1409246

Date Reported: 9/30/2014

Client: Stantec Consulting Corporation

Collection Date: 9/23/2014

Project: 3Q14 GWM 25983

Lab ID: 1409246-003

Matrix: Groundwater

Client Sample ID: MW-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17075 Analyst: BC

Gasoline	ND	50.0		µg/L	1	9/27/2014 12:12:00 AM
Surr: 4-Bromofluorobenzene	97.5	65-135		%REC	1	9/27/2014 12:12:00 AM
Surr: Toluene-d8	96.6	65-135		%REC	1	9/27/2014 12:12:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R17071 Analyst: BC

Benzene	ND	1.00		µg/L	1	9/27/2014 12:12:00 AM
Toluene	ND	1.00		µg/L	1	9/27/2014 12:12:00 AM
Ethylbenzene	ND	1.00		µg/L	1	9/27/2014 12:12:00 AM
m,p-Xylene	ND	1.00		µg/L	1	9/27/2014 12:12:00 AM
o-Xylene	ND	1.00		µg/L	1	9/27/2014 12:12:00 AM
Surr: Dibromofluoromethane	98.3	61.7-130		%REC	1	9/27/2014 12:12:00 AM
Surr: Toluene-d8	99.0	40.1-139		%REC	1	9/27/2014 12:12:00 AM
Surr: 1-Bromo-4-fluorobenzene	100	68.2-127		%REC	1	9/27/2014 12:12:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1409246

Date Reported: 9/30/2014

Client: Stantec Consulting Corporation

Collection Date: 9/23/2014

Project: 3Q14 GWM 25983

Lab ID: 1409246-004

Matrix: Groundwater

Client Sample ID: MW-4

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17075 Analyst: BC

Gasoline	ND	50.0		µg/L	1	9/27/2014 12:40:00 AM
Surr: 4-Bromofluorobenzene	96.6	65-135		%REC	1	9/27/2014 12:40:00 AM
Surr: Toluene-d8	95.7	65-135		%REC	1	9/27/2014 12:40:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R17071 Analyst: BC

Benzene	ND	1.00		µg/L	1	9/27/2014 12:40:00 AM
Toluene	ND	1.00		µg/L	1	9/27/2014 12:40:00 AM
Ethylbenzene	ND	1.00		µg/L	1	9/27/2014 12:40:00 AM
m,p-Xylene	ND	1.00		µg/L	1	9/27/2014 12:40:00 AM
o-Xylene	ND	1.00		µg/L	1	9/27/2014 12:40:00 AM
Surr: Dibromofluoromethane	96.7	61.7-130		%REC	1	9/27/2014 12:40:00 AM
Surr: Toluene-d8	98.3	40.1-139		%REC	1	9/27/2014 12:40:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.6	68.2-127		%REC	1	9/27/2014 12:40:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Client: Stantec Consulting Corporation

Collection Date: 9/23/2014

Project: 3Q14 GWM 25983

Lab ID: 1409246-005

Matrix: Groundwater

Client Sample ID: MW-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17075 Analyst: BC

Gasoline	ND	50.0		µg/L	1	9/27/2014 1:08:00 AM
Surr: 4-Bromofluorobenzene	96.4	65-135		%REC	1	9/27/2014 1:08:00 AM
Surr: Toluene-d8	98.4	65-135		%REC	1	9/27/2014 1:08:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R17071 Analyst: BC

Benzene	ND	1.00		µg/L	1	9/27/2014 1:08:00 AM
Toluene	ND	1.00		µg/L	1	9/27/2014 1:08:00 AM
Ethylbenzene	ND	1.00		µg/L	1	9/27/2014 1:08:00 AM
m,p-Xylene	ND	1.00		µg/L	1	9/27/2014 1:08:00 AM
o-Xylene	ND	1.00		µg/L	1	9/27/2014 1:08:00 AM
Surr: Dibromofluoromethane	95.3	61.7-130		%REC	1	9/27/2014 1:08:00 AM
Surr: Toluene-d8	101	40.1-139		%REC	1	9/27/2014 1:08:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.3	68.2-127		%REC	1	9/27/2014 1:08:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Work Order: 1409246
CLIENT: Stantec Consulting Corporation
Project: 3Q14 GWM 25983

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: 1409239-009ADUP	SampType: DUP	Units: µg/L	Prep Date: 9/27/2014	RunNo: 17075							
Client ID: BATCH	Batch ID: R17075		Analysis Date: 9/27/2014	SeqNo: 342083							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	50.0						0		30	
Surr: Toluene-d8	48.2		50.00		96.4	65	135		0	0	
Surr: 4-Bromofluorobenzene	52.9		50.00		106	65	135		0	0	

Sample ID: 1409246-001ADUP	SampType: DUP	Units: µg/L	Prep Date: 9/26/2014	RunNo: 17075							
Client ID: MW-1	Batch ID: R17075		Analysis Date: 9/26/2014	SeqNo: 342085							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	50.0						0		30	
Surr: Toluene-d8	48.8		50.00		97.7	65	135		0	0	
Surr: 4-Bromofluorobenzene	49.6		50.00		99.2	65	135		0	0	

Sample ID: LCS-R17075	SampType: LCS	Units: µg/L	Prep Date: 9/26/2014	RunNo: 17075							
Client ID: LCSW	Batch ID: R17075		Analysis Date: 9/26/2014	SeqNo: 342095							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	587	50.0	500.0	0	117	65	135				
Surr: Toluene-d8	48.3		50.00		96.6	65	135				
Surr: 4-Bromofluorobenzene	48.8		50.00		97.6	65	135				

Sample ID: MB-R17075	SampType: MBLK	Units: µg/L	Prep Date: 9/26/2014	RunNo: 17075							
Client ID: MBLKW	Batch ID: R17075		Analysis Date: 9/26/2014	SeqNo: 342096							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	50.0									
Surr: Toluene-d8	48.6		50.00		97.1	65	135				
Surr: 4-Bromofluorobenzene	48.8		50.00		97.6	65	135				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1409246
CLIENT: Stantec Consulting Corporation
Project: 3Q14 GWM 25983

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: MB-R17075	SampType: MBLK	Units: µg/L	Prep Date: 9/26/2014	RunNo: 17075							
Client ID: MBLKW	Batch ID: R17075	Analysis Date: 9/26/2014	SeqNo: 342096								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range

H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit

R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits

Work Order: 1409246
CLIENT: Stantec Consulting Corporation
Project: 3Q14 GWM 25983

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: 1409239-009ADUP	SampType: DUP	Units: µg/L				Prep Date: 9/27/2014	RunNo: 17071				
Client ID: BATCH	Batch ID: R17071					Analysis Date: 9/27/2014	SeqNo: 341958				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.00						0		30	
Toluene	ND	1.00						0		30	
Ethylbenzene	ND	1.00						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	1.00						0		30	
Surr: Dibromofluoromethane	53.6		50.00		107	61.7	130		0		
Surr: Toluene-d8	50.1		50.00		100	40.1	139		0		
Surr: 1-Bromo-4-fluorobenzene	54.6		50.00		109	68.2	127		0		

Sample ID: 1409246-001ADUP	SampType: DUP	Units: µg/L				Prep Date: 9/26/2014	RunNo: 17071				
Client ID: MW-1	Batch ID: R17071					Analysis Date: 9/26/2014	SeqNo: 341960				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.00						0		30	
Toluene	ND	1.00						0		30	
Ethylbenzene	ND	1.00						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	1.00						0		30	
Surr: Dibromofluoromethane	49.4		50.00		98.7	61.7	130		0		
Surr: Toluene-d8	50.4		50.00		101	40.1	139		0		
Surr: 1-Bromo-4-fluorobenzene	51.1		50.00		102	68.2	127		0		

Sample ID: 1409246-002AMS	SampType: MS	Units: µg/L				Prep Date: 9/26/2014	RunNo: 17071				
Client ID: MW-2	Batch ID: R17071					Analysis Date: 9/26/2014	SeqNo: 341962				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.2	1.00	20.00	0	106	65.4	138				
Toluene	19.4	1.00	20.00	0	96.8	64	139				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1409246
CLIENT: Stantec Consulting Corporation
Project: 3Q14 GWM 25983

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: 1409246-002AMS	SampType: MS	Units: µg/L	Prep Date: 9/26/2014	RunNo: 17071							
Client ID: MW-2	Batch ID: R17071		Analysis Date: 9/26/2014	SeqNo: 341962							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	22.2	1.00	20.00	0	111	64.5	136				
m,p-Xylene	43.5	1.00	40.00	0	109	63.3	135				
o-Xylene	21.1	1.00	20.00	0	106	65.4	134				
Surr: Dibromofluoromethane	50.3		50.00		101	61.7	130				
Surr: Toluene-d8	50.0		50.00		99.9	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	52.1		50.00		104	68.2	127				

Sample ID: LCS-R17071	SampType: LCS	Units: µg/L	Prep Date: 9/26/2014	RunNo: 17071							
Client ID: LCSW	Batch ID: R17071		Analysis Date: 9/26/2014	SeqNo: 341970							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.5	1.00	20.00	0	97.6	73.1	126				
Toluene	20.2	1.00	20.00	0	101	61.3	145				
Ethylbenzene	21.9	1.00	20.00	0	109	72	130				
m,p-Xylene	43.4	1.00	40.00	0	108	73	131				
o-Xylene	21.5	1.00	20.00	0	108	72.1	131				
Surr: Dibromofluoromethane	48.0		50.00		96.1	61.7	130				
Surr: Toluene-d8	49.4		50.00		98.9	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	50.7		50.00		101	68.2	127				

Sample ID: MB-R17071	SampType: MBLK	Units: µg/L	Prep Date: 9/26/2014	RunNo: 17071							
Client ID: MBLKW	Batch ID: R17071		Analysis Date: 9/26/2014	SeqNo: 341971							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.00									
Toluene	ND	1.00									
Ethylbenzene	ND	1.00									
m,p-Xylene	ND	1.00									

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1409246
CLIENT: Stantec Consulting Corporation
Project: 3Q14 GWM 25983

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: MB-R17071	SampType: MBLK	Units: µg/L	Prep Date: 9/26/2014	RunNo: 17071							
Client ID: MBLKW	Batch ID: R17071		Analysis Date: 9/26/2014	SeqNo: 341971							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

o-Xylene	ND	1.00									
Surr: Dibromofluoromethane	48.2		50.00		96.5	61.7	130				
Surr: Toluene-d8	49.2		50.00		98.5	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	50.3		50.00		101	68.2	127				

Qualifiers:	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

Client Name: **STANTEC**
 Logged by: **Clare Griggs**

Work Order Number: **1409246**
 Date Received: **9/23/2014 12:58:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 5. Custody seals intact on shipping container/cooler? Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is the headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C	Condition
Cooler	7.7	Good
Sample	9.2	Good



Chain of Custody Record

3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-353-9790
Fax: 206-353-7178

Date: 9/13/14

Page: 1 of 1

Laboratory Project No. (optional):

409246

Client: STAFF
Address: 1130 NE 33rd Pk ST 9200
City, State, zip: Bellevue WA 98004

Project Name: 3014 GUM 25983
Location: OLYMPIA WA
Collected by: EMILY HARPER
Email: PAUL.CANDRANO@STAFF.COM
Project No: 185450040

Sample Name	Sample Date	Sample Type (Matrix)	VOC (EPA 8260)	GV/STX by EPA 8071B	BTEX by 8260	Gasoline Range Organics (VCLID)	Hydrocarbon Identification (VCLID)	Diethyl/Heavy Oil Range Organics	SEM VOL (EPA 8270)	PAH (EPA 8270 - SW)	PCB (EPA 8082)	Cl Pesticides (EPA 8082)	Cl Herbicides (EPA 8151A)	Metal* (6090 / 200.8)	Total (T) Dissolved (D)	Anions (C1)	Comments/Depth
-------------	-------------	----------------------	----------------	---------------------	--------------	---------------------------------	------------------------------------	----------------------------------	--------------------	---------------------	----------------	--------------------------	---------------------------	-----------------------	---------------------------	-------------	----------------

1	MW-1	9/13	GW														
2	MW-2																
3	MW-3																
4	MW-4																
5	MW-5																
6																	
7																	
8																	
9																	
10																	

Metals Analyzed (Check): As Pb Cr Cu Fe Ni Mn Mo Cd Co Cr Cu Fe Ni Pb Sn Se Sr Zn
 Anions Analyzed (Check): Nitrate Nitrite Chloride Sulfate Bromide D Phosphate Fluoride Nitrate-Nitrite
 Sample Disposal: Return to Client Dispose by Lab (a fee may be assessed if samples are returned after 30 days)
 Date/Time: 9/13/14 15:00
 Date/Time: 9/23/14 12:58
 Date/Time: [blank]
 Date/Time: [blank]

Quantities: Vials • Lab, Vialow • Fla, Print • Organizer

www.fremontanalytical.com



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Seattle, WA 98103
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F: (206) 352-7178
info@fremontanalytical.com

Stantec Consulting Corporation
Paul Fairbairn
11130 NE 33rd Pl, Suite 200
Bellevue, WA 98004

RE: 25983 UST Removal 2014
Lab ID: 1410069

October 13, 2014

Attention Paul Fairbairn:

Fremont Analytical, Inc. received 8 sample(s) on 10/9/2014 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Sample Moisture (Percent Moisture)
Total Metals by EPA Method 6020
Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway".

Mike Ridgeway
President



Date: 10/13/2014

CLIENT: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab Order: 1410069

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1410069-001	CSP-1	10/07/2014 11:00 AM	10/09/2014 12:44 PM
1410069-002	CSP-2	10/08/2014 10:00 AM	10/09/2014 12:44 PM
1410069-003	CSP-3	10/09/2014 8:00 AM	10/09/2014 12:44 PM
1410069-004	WEST TANK@13'	10/08/2014 11:45 AM	10/09/2014 12:44 PM
1410069-005	MID TANK@13'	10/08/2014 1:30 PM	10/09/2014 12:44 PM
1410069-006	EAST TANK@12'	10/08/2014 3:00 PM	10/09/2014 12:44 PM
1410069-007	WEST WALL@8'	10/08/2014 12:00 PM	10/09/2014 12:44 PM
1410069-008	EAST WALL@10'	10/08/2014 2:15 PM	10/09/2014 12:44 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Stantec Consulting Corporation**Project:** 25983 UST Removal 2014

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Analytical Report

WO#: 1410069

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab ID: 1410069-001
Client Sample ID: CSP-1

Collection Date: 10/7/2014 11:00:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: 8950

Analyst: BC

Gasoline	ND	3.38		mg/Kg-dry	1	10/9/2014 10:03:00 PM
Surr: 4-Bromofluorobenzene	99.0	65-135		%REC	1	10/9/2014 10:03:00 PM
Surr: Toluene-d8	101	65-135		%REC	1	10/9/2014 10:03:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8950

Analyst: BC

Benzene	ND	0.0135		mg/Kg-dry	1	10/9/2014 10:03:00 PM
Toluene	ND	0.0135		mg/Kg-dry	1	10/9/2014 10:03:00 PM
Ethylbenzene	ND	0.0203		mg/Kg-dry	1	10/9/2014 10:03:00 PM
m,p-Xylene	ND	0.0135		mg/Kg-dry	1	10/9/2014 10:03:00 PM
o-Xylene	ND	0.0135		mg/Kg-dry	1	10/9/2014 10:03:00 PM
Surr: Dibromofluoromethane	79.5	63.7-129		%REC	1	10/9/2014 10:03:00 PM
Surr: Toluene-d8	100	64.3-131		%REC	1	10/9/2014 10:03:00 PM
Surr: 1-Bromo-4-fluorobenzene	99.9	63.1-141		%REC	1	10/9/2014 10:03:00 PM

Total Metals by EPA Method 6020

Batch ID: 8972

Analyst: TN

Lead	9.75	0.180		mg/Kg-dry	1	10/9/2014 5:43:19 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17294

Analyst: TK

Percent Moisture	11.2			wt%	1	10/9/2014 9:18:14 AM
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Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410069

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab ID: 1410069-002
Client Sample ID: CSP-2

Collection Date: 10/8/2014 10:00:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: 8950

Analyst: BC

Gasoline	ND	3.46		mg/Kg-dry	1	10/9/2014 10:32:00 PM
Surr: 4-Bromofluorobenzene	98.0	65-135		%REC	1	10/9/2014 10:32:00 PM
Surr: Toluene-d8	101	65-135		%REC	1	10/9/2014 10:32:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8950

Analyst: BC

Benzene	ND	0.0139		mg/Kg-dry	1	10/9/2014 10:32:00 PM
Toluene	ND	0.0139		mg/Kg-dry	1	10/9/2014 10:32:00 PM
Ethylbenzene	ND	0.0208		mg/Kg-dry	1	10/9/2014 10:32:00 PM
m,p-Xylene	ND	0.0139		mg/Kg-dry	1	10/9/2014 10:32:00 PM
o-Xylene	ND	0.0139		mg/Kg-dry	1	10/9/2014 10:32:00 PM
Surr: Dibromofluoromethane	82.3	63.7-129		%REC	1	10/9/2014 10:32:00 PM
Surr: Toluene-d8	99.7	64.3-131		%REC	1	10/9/2014 10:32:00 PM
Surr: 1-Bromo-4-fluorobenzene	98.9	63.1-141		%REC	1	10/9/2014 10:32:00 PM

Total Metals by EPA Method 6020

Batch ID: 8972

Analyst: TN

Lead	9.73	0.165		mg/Kg-dry	1	10/9/2014 6:10:45 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17294

Analyst: TK

Percent Moisture	10.4			wt%	1	10/9/2014 9:18:14 AM
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Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410069

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab ID: 1410069-003
Client Sample ID: CSP-3

Collection Date: 10/9/2014 8:00:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: 8950

Analyst: BC

Gasoline	ND	3.42		mg/Kg-dry	1	10/9/2014 11:01:00 PM
Surr: 4-Bromofluorobenzene	98.0	65-135		%REC	1	10/9/2014 11:01:00 PM
Surr: Toluene-d8	101	65-135		%REC	1	10/9/2014 11:01:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8950

Analyst: BC

Benzene	ND	0.0137		mg/Kg-dry	1	10/9/2014 11:01:00 PM
Toluene	ND	0.0137		mg/Kg-dry	1	10/9/2014 11:01:00 PM
Ethylbenzene	ND	0.0205		mg/Kg-dry	1	10/9/2014 11:01:00 PM
m,p-Xylene	ND	0.0137		mg/Kg-dry	1	10/9/2014 11:01:00 PM
o-Xylene	ND	0.0137		mg/Kg-dry	1	10/9/2014 11:01:00 PM
Surr: Dibromofluoromethane	109	63.7-129		%REC	1	10/9/2014 11:01:00 PM
Surr: Toluene-d8	101	64.3-131		%REC	1	10/9/2014 11:01:00 PM
Surr: 1-Bromo-4-fluorobenzene	98.8	63.1-141		%REC	1	10/9/2014 11:01:00 PM

Total Metals by EPA Method 6020

Batch ID: 8972

Analyst: TN

Lead	6.61	0.167		mg/Kg-dry	1	10/9/2014 6:14:10 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17294

Analyst: TK

Percent Moisture	7.10			wt%	1	10/9/2014 9:18:14 AM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410069

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation

Collection Date: 10/8/2014 11:45:00 AM

Project: 25983 UST Removal 2014

Lab ID: 1410069-004

Matrix: Soil

Client Sample ID: WEST TANK@13'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: 8950

Analyst: BC

Gasoline	98.6	31.0	D	mg/Kg-dry	10	10/10/2014 4:29:00 PM
Surr: 4-Bromofluorobenzene	97.5	65-135		%REC	1	10/9/2014 11:30:00 PM
Surr: Toluene-d8	103	65-135		%REC	1	10/9/2014 11:30:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8950

Analyst: BC

Benzene	ND	0.0124		mg/Kg-dry	1	10/9/2014 11:30:00 PM
Toluene	ND	0.0124		mg/Kg-dry	1	10/9/2014 11:30:00 PM
Ethylbenzene	0.0799	0.0186		mg/Kg-dry	1	10/9/2014 11:30:00 PM
m,p-Xylene	0.422	0.0124		mg/Kg-dry	1	10/9/2014 11:30:00 PM
o-Xylene	0.120	0.0124		mg/Kg-dry	1	10/9/2014 11:30:00 PM
Surr: Dibromofluoromethane	104	63.7-129		%REC	1	10/9/2014 11:30:00 PM
Surr: Toluene-d8	101	64.3-131		%REC	1	10/9/2014 11:30:00 PM
Surr: 1-Bromo-4-fluorobenzene	98.1	63.1-141		%REC	1	10/9/2014 11:30:00 PM

Total Metals by EPA Method 6020

Batch ID: 8972

Analyst: TN

Lead	3.10	0.174		mg/Kg-dry	1	10/9/2014 6:17:36 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17294

Analyst: TK

Percent Moisture	9.00			wt%	1	10/9/2014 9:18:14 AM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410069

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation

Collection Date: 10/8/2014 1:30:00 PM

Project: 25983 UST Removal 2014

Lab ID: 1410069-005

Matrix: Soil

Client Sample ID: MID TANK@13'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: 8950

Analyst: BC

Gasoline	ND	3.45		mg/Kg-dry	1	10/9/2014 11:59:00 PM
Surr: 4-Bromofluorobenzene	100	65-135		%REC	1	10/9/2014 11:59:00 PM
Surr: Toluene-d8	101	65-135		%REC	1	10/9/2014 11:59:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8950

Analyst: BC

Benzene	ND	0.0138		mg/Kg-dry	1	10/9/2014 11:59:00 PM
Toluene	ND	0.0138		mg/Kg-dry	1	10/9/2014 11:59:00 PM
Ethylbenzene	ND	0.0207		mg/Kg-dry	1	10/9/2014 11:59:00 PM
m,p-Xylene	ND	0.0138		mg/Kg-dry	1	10/9/2014 11:59:00 PM
o-Xylene	ND	0.0138		mg/Kg-dry	1	10/9/2014 11:59:00 PM
Surr: Dibromofluoromethane	83.9	63.7-129		%REC	1	10/9/2014 11:59:00 PM
Surr: Toluene-d8	101	64.3-131		%REC	1	10/9/2014 11:59:00 PM
Surr: 1-Bromo-4-fluorobenzene	101	63.1-141		%REC	1	10/9/2014 11:59:00 PM

Total Metals by EPA Method 6020

Batch ID: 8972

Analyst: TN

Lead	3.35	0.177		mg/Kg-dry	1	10/9/2014 6:21:01 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17294

Analyst: TK

Percent Moisture	11.3			wt%	1	10/9/2014 9:18:14 AM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410069

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab ID: 1410069-006
Client Sample ID: EAST TANK@12'

Collection Date: 10/8/2014 3:00:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: 8950 Analyst: BC

Gasoline	ND	3.76		mg/Kg-dry	1	10/10/2014 12:28:00 AM
Surr: 4-Bromofluorobenzene	97.8	65-135		%REC	1	10/10/2014 12:28:00 AM
Surr: Toluene-d8	101	65-135		%REC	1	10/10/2014 12:28:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8950 Analyst: BC

Benzene	ND	0.0150		mg/Kg-dry	1	10/10/2014 12:28:00 AM
Toluene	ND	0.0150		mg/Kg-dry	1	10/10/2014 12:28:00 AM
Ethylbenzene	ND	0.0226		mg/Kg-dry	1	10/10/2014 12:28:00 AM
m,p-Xylene	ND	0.0150		mg/Kg-dry	1	10/10/2014 12:28:00 AM
o-Xylene	ND	0.0150		mg/Kg-dry	1	10/10/2014 12:28:00 AM
Surr: Dibromofluoromethane	107	63.7-129		%REC	1	10/10/2014 12:28:00 AM
Surr: Toluene-d8	102	64.3-131		%REC	1	10/10/2014 12:28:00 AM
Surr: 1-Bromo-4-fluorobenzene	98.7	63.1-141		%REC	1	10/10/2014 12:28:00 AM

Total Metals by EPA Method 6020

Batch ID: 8972 Analyst: TN

Lead	2.66	0.177		mg/Kg-dry	1	10/9/2014 6:24:26 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17294 Analyst: TK

Percent Moisture	8.88			wt%	1	10/9/2014 9:18:14 AM
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Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410069

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation

Collection Date: 10/8/2014 12:00:00 PM

Project: 25983 UST Removal 2014

Lab ID: 1410069-007

Matrix: Soil

Client Sample ID: WEST WALL@8'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: 8950

Analyst: BC

Gasoline	ND	4.30		mg/Kg-dry	1	10/10/2014 12:57:00 AM
Surr: 4-Bromofluorobenzene	98.3	65-135		%REC	1	10/10/2014 12:57:00 AM
Surr: Toluene-d8	100	65-135		%REC	1	10/10/2014 12:57:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8950

Analyst: BC

Benzene	ND	0.0172		mg/Kg-dry	1	10/10/2014 12:57:00 AM
Toluene	ND	0.0172		mg/Kg-dry	1	10/10/2014 12:57:00 AM
Ethylbenzene	ND	0.0258		mg/Kg-dry	1	10/10/2014 12:57:00 AM
m,p-Xylene	ND	0.0172		mg/Kg-dry	1	10/10/2014 12:57:00 AM
o-Xylene	ND	0.0172		mg/Kg-dry	1	10/10/2014 12:57:00 AM
Surr: Dibromofluoromethane	89.1	63.7-129		%REC	1	10/10/2014 12:57:00 AM
Surr: Toluene-d8	102	64.3-131		%REC	1	10/10/2014 12:57:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.2	63.1-141		%REC	1	10/10/2014 12:57:00 AM

Total Metals by EPA Method 6020

Batch ID: 8972

Analyst: TN

Lead	3.27	0.171		mg/Kg-dry	1	10/9/2014 6:27:52 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17294

Analyst: TK

Percent Moisture	10.1			wt%	1	10/9/2014 9:18:14 AM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410069

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab ID: 1410069-008
Client Sample ID: EAST WALL @10'

Collection Date: 10/8/2014 2:15:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: 8950

Analyst: BC

Gasoline	ND	3.10		mg/Kg-dry	1	10/10/2014 1:26:00 AM
Surr: 4-Bromofluorobenzene	97.0	65-135		%REC	1	10/10/2014 1:26:00 AM
Surr: Toluene-d8	102	65-135		%REC	1	10/10/2014 1:26:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8950

Analyst: BC

Benzene	ND	0.0124		mg/Kg-dry	1	10/10/2014 1:26:00 AM
Toluene	ND	0.0124		mg/Kg-dry	1	10/10/2014 1:26:00 AM
Ethylbenzene	ND	0.0186		mg/Kg-dry	1	10/10/2014 1:26:00 AM
m,p-Xylene	ND	0.0124		mg/Kg-dry	1	10/10/2014 1:26:00 AM
o-Xylene	ND	0.0124		mg/Kg-dry	1	10/10/2014 1:26:00 AM
Surr: Dibromofluoromethane	89.2	63.7-129		%REC	1	10/10/2014 1:26:00 AM
Surr: Toluene-d8	99.9	64.3-131		%REC	1	10/10/2014 1:26:00 AM
Surr: 1-Bromo-4-fluorobenzene	98.0	63.1-141		%REC	1	10/10/2014 1:26:00 AM

Total Metals by EPA Method 6020

Batch ID: 8972

Analyst: TN

Lead	1.55	0.157		mg/Kg-dry	1	10/9/2014 6:31:17 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17294

Analyst: TK

Percent Moisture	3.47			wt%	1	10/9/2014 9:18:14 AM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Date: 10/13/2014

Work Order: 1410069
CLIENT: Stantec Consulting Corporation
Project: 25983 UST Removal 2014

QC SUMMARY REPORT
Total Metals by EPA Method 6020

Sample ID: MB-8972	SampType: MBLK	Units: mg/Kg	Prep Date: 10/9/2014	RunNo: 17312							
Client ID: MBLKS	Batch ID: 8972	Analysis Date: 10/9/2014	SeqNo: 346208								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.200

Sample ID: LCS-8972	SampType: LCS	Units: mg/Kg	Prep Date: 10/9/2014	RunNo: 17312							
Client ID: LCSS	Batch ID: 8972	Analysis Date: 10/9/2014	SeqNo: 346209								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 194 0.200 189.0 0 103 74.6 125.4

Sample ID: 1410069-001ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 10/9/2014	RunNo: 17312							
Client ID: CSP-1	Batch ID: 8972	Analysis Date: 10/9/2014	SeqNo: 346211								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 12.7 0.176 9.753 26.1 30

Sample ID: 1410069-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 10/9/2014	RunNo: 17312							
Client ID: CSP-1	Batch ID: 8972	Analysis Date: 10/9/2014	SeqNo: 346213								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 34.2 0.171 21.33 9.753 115 75 125

Sample ID: 1410069-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 10/9/2014	RunNo: 17312							
Client ID: CSP-1	Batch ID: 8972	Analysis Date: 10/9/2014	SeqNo: 346216								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 32.6 0.173 21.66 9.753 106 75 125 34.21 4.79 30

Qualifiers: B Analyte detected in the associated Method Blank
 D Dilution was required
 E Value above quantitation range
 H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits
 ND Not detected at the Reporting Limit
 R RPD outside accepted recovery limits
 RL Reporting Limit
 S Spike recovery outside accepted recovery limits

Work Order: 1410069
CLIENT: Stantec Consulting Corporation
Project: 25983 UST Removal 2014

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: LCS-R17335	SampType: LCS	Units: mg/Kg	Prep Date: 10/9/2014	RunNo: 17335							
Client ID: LCSS	Batch ID: 8950		Analysis Date: 10/9/2014	SeqNo: 346617							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	25.1	5.00	25.00	0	101	65	135				
Surr: Toluene-d8	2.52		2.500		101	65	135				
Surr: 4-Bromofluorobenzene	2.51		2.500		100	65	135				

Sample ID: MB-R17335	SampType: MBLK	Units: mg/Kg	Prep Date: 10/9/2014	RunNo: 17335							
Client ID: MBLKS	Batch ID: 8950		Analysis Date: 10/9/2014	SeqNo: 346618							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: Toluene-d8	2.53		2.500		101	65	135				
Surr: 4-Bromofluorobenzene	2.47		2.500		98.8	65	135				

Sample ID: 1410039-021BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 10/7/2014	RunNo: 17335							
Client ID: BATCH	Batch ID: 8950		Analysis Date: 10/10/2014	SeqNo: 346619							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	2.44						0		30	
Surr: Toluene-d8	1.22		1.222		100	65	135		0		
Surr: 4-Bromofluorobenzene	1.22		1.222		100	65	135		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Work Order: 1410069
CLIENT: Stantec Consulting Corporation
Project: 25983 UST Removal 2014

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: 1410039-022BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 10/7/2014	RunNo: 17321							
Client ID: BATCH	Batch ID: 8950		Analysis Date: 10/10/2014	SeqNo: 346372							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.415	0.00800	0.4001	0	104	63.5	133				
Toluene	0.385	0.00800	0.4001	0.01257	93.0	63.4	132				
Ethylbenzene	0.422	0.0120	0.4001	0.002598	105	54.5	134				
m,p-Xylene	0.829	0.00800	0.8001	0.01837	101	53.1	132				
o-Xylene	0.432	0.00800	0.4001	0.004995	107	53.3	139				
Surr: Dibromofluoromethane	0.927		1.000		92.6	63.7	129				
Surr: Toluene-d8	1.00		1.000		100	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.05		1.000		104	63.1	141				

Sample ID: LCS-8950	SampType: LCS	Units: mg/Kg	Prep Date: 10/7/2014	RunNo: 17321							
Client ID: LCSS	Batch ID: 8950		Analysis Date: 10/9/2014	SeqNo: 346392							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.01	0.0200	1.000	0	101	64.3	133				
Toluene	0.922	0.0200	1.000	0	92.2	67.3	138				
Ethylbenzene	1.01	0.0300	1.000	0	101	74	129				
m,p-Xylene	1.96	0.0200	2.000	0	98.1	79.8	128				
o-Xylene	1.03	0.0200	1.000	0	103	72.7	124				
Surr: Dibromofluoromethane	2.50		2.500		99.8	63.7	129				
Surr: Toluene-d8	2.51		2.500		100	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	2.57		2.500		103	63.1	141				

Sample ID: MB-8950	SampType: MBLK	Units: mg/Kg	Prep Date: 10/7/2014	RunNo: 17321							
Client ID: MBLKS	Batch ID: 8950		Analysis Date: 10/9/2014	SeqNo: 346393							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0200									
Toluene	ND	0.0200									

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1410069
CLIENT: Stantec Consulting Corporation
Project: 25983 UST Removal 2014

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: MB-8950	SampType: MBLK	Units: mg/Kg	Prep Date: 10/7/2014	RunNo: 17321							
Client ID: MBLKS	Batch ID: 8950		Analysis Date: 10/9/2014	SeqNo: 346393							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	ND	0.0300									
m,p-Xylene	ND	0.0200									
o-Xylene	ND	0.0200									
Surr: Dibromofluoromethane	2.36		2.500		94.4	63.7	129				
Surr: Toluene-d8	2.50		2.500		100	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	2.50		2.500		99.8	63.1	141				

Sample ID: 1410039-021BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 10/7/2014	RunNo: 17321							
Client ID: BATCH	Batch ID: 8950		Analysis Date: 10/10/2014	SeqNo: 346400							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.00977						0		30	
Toluene	ND	0.00977						0		30	
Ethylbenzene	ND	0.0147						0		30	
m,p-Xylene	ND	0.00977						0		30	
o-Xylene	ND	0.00977						0		30	
Surr: Dibromofluoromethane	1.13		1.222		92.9	63.7	129		0		
Surr: Toluene-d8	1.25		1.222		102	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.23		1.222		101	63.1	141		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Client Name: **STANTEC**

 Work Order Number: **1410069**

 Logged by: **Erica Silva**

 Date Received: **10/9/2014 12:44:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody seals intact on shipping container/cooler? Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is the headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C	Condition
Cooler	9.6	Good
Sample	6.1	Good



Fremont Analytical

Chain of Custody Record

3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Laboratory Project No (Internal):

1410069

Date: 10/9/14

Page: 1

of: 1

Client:

STANTEC

Project Name:

25083 UST REMOVAL 2014

Address:

1130 NE 33rd Ave 200
Bellevue WA 98004

Location:

OLYMPIA, WA

City, State, Zip

Bellevue WA 98004

Collected by:

EMILY HANCOCK

Reports To (PM):

PAUL FAIRBAIRN

Fax:

Email: PAUL.FAIRBAIRN@STANTEC.COM
Project No:

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOC (EPA 8260)	GX/STEX	BTEX	24HR TAT	Gasoline Range Organics (GX)	Hydrocarbon Identification (HID)	Diesel/Heavy Oil Range Organics (DO)	SEM VOL (EPA 8270)	PAH (EPA 8270 - SIM)	PCBs (EPA 8082)	Metals** (6020 / 200.8)	Total (T) [Dissolved (D)]	Anions (IC)***	EDs (8011)	Comments/Depth
1 CSP-1	10/7	11:00	SOIL	X														7 ppm
2 CSP-2	10/8	10:00		X														0 ppm
3 CSP-3	10/9	8:00	S	X														0 ppm
4 WEST TANK @ 13'	10/8	11:45		X														794 ppm
5 MID TANK @ 13'	10/8	13:30		X														7 ppm
6 EAST TANK @ 12'	10/8	15:00		X														0 ppm
7 WEST WALL @ 8'	10/8	12:00		X														1 ppm
8 EAST WALL @ 10'	10/8	14:15		X														3 ppm
9																		
10																		

**Metals Analysis (Circle): MITCH-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Sample Disposal: Return to Client Disposed by Lab (A fee may be assessed if samples are retained after 30 days.)

Relinquished

Date/Time

10/9/14 11:00

Received

Date/Time

10/9/14 1:24

Relinquished

Date/Time

10/9/14 11:00

Received

Date/Time

10/9/14 1:24

TAT -> SameDay NextDay 2 Day 3 Day STD
*Please coordinate with the lab in advance



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Stantec Consulting Corporation
Paul Fairbairn
11130 NE 33rd Pl, Suite 200
Bellevue, WA 98004

RE: 25983 UST Removal 2014
Lab ID: 1410089

October 13, 2014

Attention Paul Fairbairn:

Fremont Analytical, Inc. received 18 sample(s) on 10/10/2014 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Sample Moisture (Percent Moisture)
Total Metals by EPA Method 6020
Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway", written in a cursive style.

Mike Ridgeway
President



Date: 10/13/2014

CLIENT: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab Order: 1410089

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1410089-001	PL@3'	10/09/2014 11:00 AM	10/10/2014 4:30 PM
1410089-002	DSP-1	10/09/2014 4:00 PM	10/10/2014 4:30 PM
1410089-003	DSP-2	10/09/2014 4:10 PM	10/10/2014 4:30 PM
1410089-004	DSP-3	10/09/2014 4:20 PM	10/10/2014 4:30 PM
1410089-005	NORTH WALL@9'	10/09/2014 2:45 PM	10/10/2014 4:30 PM
1410089-006	DIW@5'	10/09/2014 10:30 AM	10/10/2014 4:30 PM
1410089-007	DIE@5'	10/09/2014 11:15 AM	10/10/2014 4:30 PM
1410089-008	DI@20'	10/09/2014 1:45 PM	10/10/2014 4:30 PM
1410089-009	DI@26'	10/09/2014 2:00 PM	10/10/2014 4:30 PM
1410089-010	CSS-1@17'	10/10/2014 10:15 AM	10/10/2014 4:30 PM
1410089-011	CSS-2@20'	10/10/2014 10:45 AM	10/10/2014 4:30 PM
1410089-012	SS-1@20'	10/10/2014 2:30 PM	10/10/2014 4:30 PM
1410089-013	SS-1@25'	10/10/2014 2:40 PM	10/10/2014 4:30 PM
1410089-014	SS-2@17'	10/10/2014 10:00 AM	10/10/2014 4:30 PM
1410089-015	SS-3@15'	10/10/2014 9:00 AM	10/10/2014 4:30 PM
1410089-016	SS-4@18'	10/10/2014 8:30 AM	10/10/2014 4:30 PM
1410089-017	SS-4@23'	10/10/2014 8:45 AM	10/10/2014 4:30 PM
1410089-018	Trip Blank	10/03/2014 4:15 PM	10/10/2014 4:30 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Stantec Consulting Corporation**Project:** 25983 UST Removal 2014

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Analytical Report

WO#: 1410089

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab ID: 1410089-001
Client Sample ID: PL@3'

Collection Date: 10/9/2014 11:00:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17350 Analyst: BC

Gasoline	ND	3.45		mg/Kg-dry	1	10/11/2014 8:50:00 AM
Surr: 4-Bromofluorobenzene	102	65-135		%REC	1	10/11/2014 8:50:00 AM
Surr: Toluene-d8	100	65-135		%REC	1	10/11/2014 8:50:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8990 Analyst: BC

Benzene	ND	0.0138		mg/Kg-dry	1	10/11/2014 8:50:00 AM
Toluene	ND	0.0138		mg/Kg-dry	1	10/11/2014 8:50:00 AM
Ethylbenzene	ND	0.0207		mg/Kg-dry	1	10/11/2014 8:50:00 AM
m,p-Xylene	ND	0.0138		mg/Kg-dry	1	10/11/2014 8:50:00 AM
o-Xylene	ND	0.0138		mg/Kg-dry	1	10/11/2014 8:50:00 AM
Surr: Dibromofluoromethane	107	63.7-129		%REC	1	10/11/2014 8:50:00 AM
Surr: Toluene-d8	102	64.3-131		%REC	1	10/11/2014 8:50:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.7	63.1-141		%REC	1	10/11/2014 8:50:00 AM

Total Metals by EPA Method 6020

Batch ID: 8992 Analyst: TN

Lead	1.60	0.155		mg/Kg-dry	1	10/13/2014 1:35:44 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17343 Analyst: KZ

Percent Moisture	3.02			wt%	1	10/13/2014 8:16:39 AM
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Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410089

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab ID: 1410089-002
Client Sample ID: DSP-1

Collection Date: 10/9/2014 4:00:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17350 Analyst: BC

Gasoline	20.1	3.31		mg/Kg-dry	1	10/11/2014 9:48:00 AM
Surr: 4-Bromofluorobenzene	101	65-135		%REC	1	10/11/2014 9:48:00 AM
Surr: Toluene-d8	101	65-135		%REC	1	10/11/2014 9:48:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8990 Analyst: BC

Benzene	ND	0.0133		mg/Kg-dry	1	10/11/2014 9:48:00 AM
Toluene	ND	0.0133		mg/Kg-dry	1	10/11/2014 9:48:00 AM
Ethylbenzene	ND	0.0199		mg/Kg-dry	1	10/11/2014 9:48:00 AM
m,p-Xylene	0.0359	0.0133		mg/Kg-dry	1	10/11/2014 9:48:00 AM
o-Xylene	0.0183	0.0133		mg/Kg-dry	1	10/11/2014 9:48:00 AM
Surr: Dibromofluoromethane	109	63.7-129		%REC	1	10/11/2014 9:48:00 AM
Surr: Toluene-d8	99.3	64.3-131		%REC	1	10/11/2014 9:48:00 AM
Surr: 1-Bromo-4-fluorobenzene	98.2	63.1-141		%REC	1	10/11/2014 9:48:00 AM

Total Metals by EPA Method 6020

Batch ID: 8992 Analyst: TN

Lead	2.89	0.170		mg/Kg-dry	1	10/13/2014 1:56:17 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17343 Analyst: KZ

Percent Moisture	9.37			wt%	1	10/13/2014 8:16:39 AM
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Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410089

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab ID: 1410089-003
Client Sample ID: DSP-2

Collection Date: 10/9/2014 4:10:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17350 Analyst: BC

Gasoline	5.36	3.36		mg/Kg-dry	1	10/11/2014 11:44:00 AM
Surr: 4-Bromofluorobenzene	101	65-135		%REC	1	10/11/2014 11:44:00 AM
Surr: Toluene-d8	100	65-135		%REC	1	10/11/2014 11:44:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8990 Analyst: BC

Benzene	ND	0.0134		mg/Kg-dry	1	10/11/2014 11:44:00 AM
Toluene	ND	0.0134		mg/Kg-dry	1	10/11/2014 11:44:00 AM
Ethylbenzene	ND	0.0202		mg/Kg-dry	1	10/11/2014 11:44:00 AM
m,p-Xylene	ND	0.0134		mg/Kg-dry	1	10/11/2014 11:44:00 AM
o-Xylene	ND	0.0134		mg/Kg-dry	1	10/11/2014 11:44:00 AM
Surr: Dibromofluoromethane	105	63.7-129		%REC	1	10/11/2014 11:44:00 AM
Surr: Toluene-d8	99.8	64.3-131		%REC	1	10/11/2014 11:44:00 AM
Surr: 1-Bromo-4-fluorobenzene	98.8	63.1-141		%REC	1	10/11/2014 11:44:00 AM

Total Metals by EPA Method 6020

Batch ID: 8992 Analyst: TN

Lead	2.22	0.163		mg/Kg-dry	1	10/13/2014 1:59:42 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17343 Analyst: KZ

Percent Moisture	6.80			wt%	1	10/13/2014 8:16:39 AM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit
 D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410089

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab ID: 1410089-004
Client Sample ID: DSP-3

Collection Date: 10/9/2014 4:20:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17350 Analyst: BC

Gasoline	24.2	3.99		mg/Kg-dry	1	10/11/2014 12:13:00 PM
Surr: 4-Bromofluorobenzene	100	65-135		%REC	1	10/11/2014 12:13:00 PM
Surr: Toluene-d8	101	65-135		%REC	1	10/11/2014 12:13:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8990 Analyst: BC

Benzene	ND	0.0160		mg/Kg-dry	1	10/11/2014 12:13:00 PM
Toluene	ND	0.0160		mg/Kg-dry	1	10/11/2014 12:13:00 PM
Ethylbenzene	ND	0.0240		mg/Kg-dry	1	10/11/2014 12:13:00 PM
m,p-Xylene	0.112	0.0160		mg/Kg-dry	1	10/11/2014 12:13:00 PM
o-Xylene	0.0410	0.0160		mg/Kg-dry	1	10/11/2014 12:13:00 PM
Surr: Dibromofluoromethane	90.0	63.7-129		%REC	1	10/11/2014 12:13:00 PM
Surr: Toluene-d8	98.5	64.3-131		%REC	1	10/11/2014 12:13:00 PM
Surr: 1-Bromo-4-fluorobenzene	97.8	63.1-141		%REC	1	10/11/2014 12:13:00 PM

Total Metals by EPA Method 6020

Batch ID: 8992 Analyst: TN

Lead	2.20	0.165		mg/Kg-dry	1	10/13/2014 2:10:02 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17343 Analyst: KZ

Percent Moisture	9.10			wt%	1	10/13/2014 8:16:39 AM
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Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410089

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab ID: 1410089-005
Client Sample ID: NORTH WALL@9'

Collection Date: 10/9/2014 2:45:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17350 Analyst: BC

Gasoline	ND	3.69		mg/Kg-dry	1	10/11/2014 12:42:00 PM
Surr: 4-Bromofluorobenzene	99.6	65-135		%REC	1	10/11/2014 12:42:00 PM
Surr: Toluene-d8	99.9	65-135		%REC	1	10/11/2014 12:42:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8990 Analyst: BC

Benzene	ND	0.0148		mg/Kg-dry	1	10/11/2014 12:42:00 PM
Toluene	ND	0.0148		mg/Kg-dry	1	10/11/2014 12:42:00 PM
Ethylbenzene	ND	0.0221		mg/Kg-dry	1	10/11/2014 12:42:00 PM
m,p-Xylene	ND	0.0148		mg/Kg-dry	1	10/11/2014 12:42:00 PM
o-Xylene	ND	0.0148		mg/Kg-dry	1	10/11/2014 12:42:00 PM
Surr: Dibromofluoromethane	97.1	63.7-129		%REC	1	10/11/2014 12:42:00 PM
Surr: Toluene-d8	99.2	64.3-131		%REC	1	10/11/2014 12:42:00 PM
Surr: 1-Bromo-4-fluorobenzene	97.6	63.1-141		%REC	1	10/11/2014 12:42:00 PM

Total Metals by EPA Method 6020

Batch ID: 8992 Analyst: TN

Lead	2.16	0.160		mg/Kg-dry	1	10/13/2014 2:13:29 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17343 Analyst: KZ

Percent Moisture	3.64			wt%	1	10/13/2014 8:16:39 AM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit
 D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410089

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation

Collection Date: 10/9/2014 10:30:00 AM

Project: 25983 UST Removal 2014

Lab ID: 1410089-006

Matrix: Soil

Client Sample ID: DIW@5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17350 Analyst: BC

Gasoline	ND	3.54		mg/Kg-dry	1	10/11/2014 1:11:00 PM
Surr: 4-Bromofluorobenzene	98.1	65-135		%REC	1	10/11/2014 1:11:00 PM
Surr: Toluene-d8	101	65-135		%REC	1	10/11/2014 1:11:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8990 Analyst: BC

Benzene	ND	0.0142		mg/Kg-dry	1	10/11/2014 1:11:00 PM
Toluene	ND	0.0142		mg/Kg-dry	1	10/11/2014 1:11:00 PM
Ethylbenzene	ND	0.0213		mg/Kg-dry	1	10/11/2014 1:11:00 PM
m,p-Xylene	ND	0.0142		mg/Kg-dry	1	10/11/2014 1:11:00 PM
o-Xylene	ND	0.0142		mg/Kg-dry	1	10/11/2014 1:11:00 PM
Surr: Dibromofluoromethane	107	63.7-129		%REC	1	10/11/2014 1:11:00 PM
Surr: Toluene-d8	100	64.3-131		%REC	1	10/11/2014 1:11:00 PM
Surr: 1-Bromo-4-fluorobenzene	96.1	63.1-141		%REC	1	10/11/2014 1:11:00 PM

Total Metals by EPA Method 6020

Batch ID: 8992 Analyst: TN

Lead	4.67	0.166		mg/Kg-dry	1	10/13/2014 2:16:54 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17343 Analyst: KZ

Percent Moisture	5.78			wt%	1	10/13/2014 8:16:39 AM
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Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410089

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab ID: 1410089-007
Client Sample ID: DIE@5'

Collection Date: 10/9/2014 11:15:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17350 Analyst: BC

Gasoline	ND	3.27		mg/Kg-dry	1	10/11/2014 1:41:00 PM
Surr: 4-Bromofluorobenzene	99.1	65-135		%REC	1	10/11/2014 1:41:00 PM
Surr: Toluene-d8	101	65-135		%REC	1	10/11/2014 1:41:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8990 Analyst: BC

Benzene	ND	0.0131		mg/Kg-dry	1	10/11/2014 1:41:00 PM
Toluene	ND	0.0131		mg/Kg-dry	1	10/11/2014 1:41:00 PM
Ethylbenzene	ND	0.0196		mg/Kg-dry	1	10/11/2014 1:41:00 PM
m,p-Xylene	ND	0.0131		mg/Kg-dry	1	10/11/2014 1:41:00 PM
o-Xylene	ND	0.0131		mg/Kg-dry	1	10/11/2014 1:41:00 PM
Surr: Dibromofluoromethane	111	63.7-129		%REC	1	10/11/2014 1:41:00 PM
Surr: Toluene-d8	99.5	64.3-131		%REC	1	10/11/2014 1:41:00 PM
Surr: 1-Bromo-4-fluorobenzene	97.1	63.1-141		%REC	1	10/11/2014 1:41:00 PM

Total Metals by EPA Method 6020

Batch ID: 8992 Analyst: TN

Lead	1.88	0.168		mg/Kg-dry	1	10/13/2014 2:20:19 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17343 Analyst: KZ

Percent Moisture	2.15			wt%	1	10/13/2014 8:16:39 AM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit
 D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410089

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab ID: 1410089-008
Client Sample ID: DI@20'

Collection Date: 10/9/2014 1:45:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17350 Analyst: BC

Gasoline	270	37.5	D	mg/Kg-dry	10	10/13/2014 3:20:00 PM
Surr: 4-Bromofluorobenzene	103	65-135		%REC	1	10/11/2014 2:10:00 PM
Surr: Toluene-d8	103	65-135		%REC	1	10/11/2014 2:10:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8990 Analyst: BC

Benzene	ND	0.0150		mg/Kg-dry	1	10/11/2014 2:10:00 PM
Toluene	0.0467	0.0150		mg/Kg-dry	1	10/11/2014 2:10:00 PM
Ethylbenzene	0.586	0.0225		mg/Kg-dry	1	10/11/2014 2:10:00 PM
m,p-Xylene	4.32	0.150	D	mg/Kg-dry	10	10/13/2014 3:20:00 PM
o-Xylene	1.36	0.0150		mg/Kg-dry	1	10/11/2014 2:10:00 PM
Surr: Dibromofluoromethane	99.5	63.7-129		%REC	1	10/11/2014 2:10:00 PM
Surr: Toluene-d8	98.5	64.3-131		%REC	1	10/11/2014 2:10:00 PM
Surr: 1-Bromo-4-fluorobenzene	101	63.1-141		%REC	1	10/11/2014 2:10:00 PM

Total Metals by EPA Method 6020

Batch ID: 8992 Analyst: TN

Lead	2.53	0.180		mg/Kg-dry	1	10/13/2014 2:23:45 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17343 Analyst: KZ

Percent Moisture	9.47			wt%	1	10/13/2014 8:16:39 AM
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Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410089

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab ID: 1410089-009
Client Sample ID: DI@26'

Collection Date: 10/9/2014 2:00:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17350 Analyst: BC

Gasoline	ND	6.01		mg/Kg-dry	1	10/11/2014 2:38:00 PM
Surr: 4-Bromofluorobenzene	100	65-135		%REC	1	10/11/2014 2:38:00 PM
Surr: Toluene-d8	100	65-135		%REC	1	10/11/2014 2:38:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8990 Analyst: BC

Benzene	ND	0.0240		mg/Kg-dry	1	10/11/2014 2:38:00 PM
Toluene	ND	0.0240		mg/Kg-dry	1	10/11/2014 2:38:00 PM
Ethylbenzene	ND	0.0361		mg/Kg-dry	1	10/11/2014 2:38:00 PM
m,p-Xylene	0.0562	0.0240		mg/Kg-dry	1	10/11/2014 2:38:00 PM
o-Xylene	ND	0.0240		mg/Kg-dry	1	10/11/2014 2:38:00 PM
Surr: Dibromofluoromethane	109	63.7-129		%REC	1	10/11/2014 2:38:00 PM
Surr: Toluene-d8	101	64.3-131		%REC	1	10/11/2014 2:38:00 PM
Surr: 1-Bromo-4-fluorobenzene	98.2	63.1-141		%REC	1	10/11/2014 2:38:00 PM

Total Metals by EPA Method 6020

Batch ID: 8992 Analyst: TN

Lead	2.88	0.172		mg/Kg-dry	1	10/13/2014 2:27:10 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17343 Analyst: KZ

Percent Moisture	8.28			wt%	1	10/13/2014 8:16:39 AM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit
 D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410089

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab ID: 1410089-010
Client Sample ID: CSS-1@17'

Collection Date: 10/10/2014 10:15:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17350 Analyst: BC

Gasoline	ND	3.25		mg/Kg-dry	1	10/11/2014 3:08:00 PM
Surr: 4-Bromofluorobenzene	99.5	65-135		%REC	1	10/11/2014 3:08:00 PM
Surr: Toluene-d8	101	65-135		%REC	1	10/11/2014 3:08:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8990 Analyst: BC

Benzene	ND	0.0130		mg/Kg-dry	1	10/11/2014 3:08:00 PM
Toluene	ND	0.0130		mg/Kg-dry	1	10/11/2014 3:08:00 PM
Ethylbenzene	ND	0.0195		mg/Kg-dry	1	10/11/2014 3:08:00 PM
m,p-Xylene	ND	0.0130		mg/Kg-dry	1	10/11/2014 3:08:00 PM
o-Xylene	ND	0.0130		mg/Kg-dry	1	10/11/2014 3:08:00 PM
Surr: Dibromofluoromethane	96.8	63.7-129		%REC	1	10/11/2014 3:08:00 PM
Surr: Toluene-d8	98.8	64.3-131		%REC	1	10/11/2014 3:08:00 PM
Surr: 1-Bromo-4-fluorobenzene	97.6	63.1-141		%REC	1	10/11/2014 3:08:00 PM

Total Metals by EPA Method 6020

Batch ID: 8992 Analyst: TN

Lead	2.02	0.167		mg/Kg-dry	1	10/13/2014 2:30:35 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17343 Analyst: KZ

Percent Moisture	6.32			wt%	1	10/13/2014 8:16:39 AM
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Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410089

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab ID: 1410089-011
Client Sample ID: CSS-2@20'

Collection Date: 10/10/2014 10:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Gasoline by NWTPH-Gx</u>			Batch ID: R17350 Analyst: BC			
Gasoline	ND	4.10		mg/Kg-dry	1	10/11/2014 3:37:00 PM
Surr: 4-Bromofluorobenzene	100	65-135		%REC	1	10/11/2014 3:37:00 PM
Surr: Toluene-d8	100	65-135		%REC	1	10/11/2014 3:37:00 PM
<u>Volatile Organic Compounds by EPA Method 8260</u>			Batch ID: 8990 Analyst: BC			
Benzene	ND	0.0164		mg/Kg-dry	1	10/11/2014 3:37:00 PM
Toluene	ND	0.0164		mg/Kg-dry	1	10/11/2014 3:37:00 PM
Ethylbenzene	ND	0.0246		mg/Kg-dry	1	10/11/2014 3:37:00 PM
m,p-Xylene	ND	0.0164		mg/Kg-dry	1	10/11/2014 3:37:00 PM
o-Xylene	ND	0.0164		mg/Kg-dry	1	10/11/2014 3:37:00 PM
Surr: Dibromofluoromethane	111	63.7-129		%REC	1	10/11/2014 3:37:00 PM
Surr: Toluene-d8	101	64.3-131		%REC	1	10/11/2014 3:37:00 PM
Surr: 1-Bromo-4-fluorobenzene	98.0	63.1-141		%REC	1	10/11/2014 3:37:00 PM
<u>Total Metals by EPA Method 6020</u>			Batch ID: 8992 Analyst: TN			
Lead	2.29	0.170		mg/Kg-dry	1	10/13/2014 2:34:01 PM
<u>Sample Moisture (Percent Moisture)</u>			Batch ID: R17343 Analyst: KZ			
Percent Moisture	6.65			wt%	1	10/13/2014 8:16:39 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit
 D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410089

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation

Collection Date: 10/10/2014 2:30:00 PM

Project: 25983 UST Removal 2014

Lab ID: 1410089-012

Matrix: Soil

Client Sample ID: SS-1 @20'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17350 Analyst: BC

Gasoline	48.7	3.67		mg/Kg-dry	1	10/11/2014 6:02:00 PM
Surr: 4-Bromofluorobenzene	102	65-135		%REC	1	10/11/2014 6:02:00 PM
Surr: Toluene-d8	102	65-135		%REC	1	10/11/2014 6:02:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8990 Analyst: BC

Benzene	ND	0.0147		mg/Kg-dry	1	10/11/2014 6:02:00 PM
Toluene	0.0247	0.0147		mg/Kg-dry	1	10/11/2014 6:02:00 PM
Ethylbenzene	0.0690	0.0220		mg/Kg-dry	1	10/11/2014 6:02:00 PM
m,p-Xylene	0.376	0.0147		mg/Kg-dry	1	10/11/2014 6:02:00 PM
o-Xylene	0.131	0.0147		mg/Kg-dry	1	10/11/2014 6:02:00 PM
Surr: Dibromofluoromethane	98.9	63.7-129		%REC	1	10/11/2014 6:02:00 PM
Surr: Toluene-d8	101	64.3-131		%REC	1	10/11/2014 6:02:00 PM
Surr: 1-Bromo-4-fluorobenzene	99.1	63.1-141		%REC	1	10/11/2014 6:02:00 PM

Total Metals by EPA Method 6020

Batch ID: 8992 Analyst: TN

Lead	3.22	0.165		mg/Kg-dry	1	10/13/2014 2:37:26 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17343 Analyst: KZ

Percent Moisture	6.94			wt%	1	10/13/2014 8:16:39 AM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit
 D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410089

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab ID: 1410089-013
Client Sample ID: SS-1 @25'

Collection Date: 10/10/2014 2:40:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17350 Analyst: BC

Gasoline	ND	3.20		mg/Kg-dry	1	10/11/2014 6:31:00 PM
Surr: 4-Bromofluorobenzene	100	65-135		%REC	1	10/11/2014 6:31:00 PM
Surr: Toluene-d8	99.9	65-135		%REC	1	10/11/2014 6:31:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8990 Analyst: BC

Benzene	ND	0.0128		mg/Kg-dry	1	10/11/2014 6:31:00 PM
Toluene	ND	0.0128		mg/Kg-dry	1	10/11/2014 6:31:00 PM
Ethylbenzene	ND	0.0192		mg/Kg-dry	1	10/11/2014 6:31:00 PM
m,p-Xylene	ND	0.0128		mg/Kg-dry	1	10/11/2014 6:31:00 PM
o-Xylene	ND	0.0128		mg/Kg-dry	1	10/11/2014 6:31:00 PM
Surr: Dibromofluoromethane	102	63.7-129		%REC	1	10/11/2014 6:31:00 PM
Surr: Toluene-d8	102	64.3-131		%REC	1	10/11/2014 6:31:00 PM
Surr: 1-Bromo-4-fluorobenzene	98.3	63.1-141		%REC	1	10/11/2014 6:31:00 PM

Total Metals by EPA Method 6020

Batch ID: 8992 Analyst: TN

Lead	1.95	0.163		mg/Kg-dry	1	10/13/2014 2:40:52 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17343 Analyst: KZ

Percent Moisture	5.87			wt%	1	10/13/2014 8:16:39 AM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit
 D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410089

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab ID: 1410089-014
Client Sample ID: SS-2@17'

Collection Date: 10/10/2014 10:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17350 Analyst: BC

Gasoline	8.80	3.61		mg/Kg-dry	1	10/11/2014 7:00:00 PM
Surr: 4-Bromofluorobenzene	101	65-135		%REC	1	10/11/2014 7:00:00 PM
Surr: Toluene-d8	100	65-135		%REC	1	10/11/2014 7:00:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8990 Analyst: BC

Benzene	ND	0.0144		mg/Kg-dry	1	10/11/2014 7:00:00 PM
Toluene	ND	0.0144		mg/Kg-dry	1	10/11/2014 7:00:00 PM
Ethylbenzene	ND	0.0216		mg/Kg-dry	1	10/11/2014 7:00:00 PM
m,p-Xylene	ND	0.0144		mg/Kg-dry	1	10/11/2014 7:00:00 PM
o-Xylene	ND	0.0144		mg/Kg-dry	1	10/11/2014 7:00:00 PM
Surr: Dibromofluoromethane	97.2	63.7-129		%REC	1	10/11/2014 7:00:00 PM
Surr: Toluene-d8	101	64.3-131		%REC	1	10/11/2014 7:00:00 PM
Surr: 1-Bromo-4-fluorobenzene	98.7	63.1-141		%REC	1	10/11/2014 7:00:00 PM

Total Metals by EPA Method 6020

Batch ID: 8992 Analyst: TN

Lead	2.04	0.168		mg/Kg-dry	1	10/13/2014 2:51:12 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17343 Analyst: KZ

Percent Moisture	7.98			wt%	1	10/13/2014 8:16:39 AM
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Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410089

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation

Collection Date: 10/10/2014 9:00:00 AM

Project: 25983 UST Removal 2014

Lab ID: 1410089-015

Matrix: Soil

Client Sample ID: SS-3@15'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17350 Analyst: BC

Gasoline	86.9	35.2	D	mg/Kg-dry	10	10/13/2014 3:49:00 PM
Surr: 4-Bromofluorobenzene	101	65-135		%REC	1	10/11/2014 7:29:00 PM
Surr: Toluene-d8	103	65-135		%REC	1	10/11/2014 7:29:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8990 Analyst: BC

Benzene	ND	0.0141		mg/Kg-dry	1	10/11/2014 7:29:00 PM
Toluene	ND	0.0141		mg/Kg-dry	1	10/11/2014 7:29:00 PM
Ethylbenzene	0.146	0.0211		mg/Kg-dry	1	10/11/2014 7:29:00 PM
m,p-Xylene	0.391	0.0141		mg/Kg-dry	1	10/11/2014 7:29:00 PM
o-Xylene	0.269	0.0141		mg/Kg-dry	1	10/11/2014 7:29:00 PM
Surr: Dibromofluoromethane	109	63.7-129		%REC	1	10/11/2014 7:29:00 PM
Surr: Toluene-d8	100	64.3-131		%REC	1	10/11/2014 7:29:00 PM
Surr: 1-Bromo-4-fluorobenzene	99.3	63.1-141		%REC	1	10/11/2014 7:29:00 PM

Total Metals by EPA Method 6020

Batch ID: 8992 Analyst: TN

Lead	2.13	0.163		mg/Kg-dry	1	10/13/2014 2:54:37 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17343 Analyst: KZ

Percent Moisture	9.67			wt%	1	10/13/2014 8:16:39 AM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410089

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation

Collection Date: 10/10/2014 8:30:00 AM

Project: 25983 UST Removal 2014

Lab ID: 1410089-016

Matrix: Soil

Client Sample ID: SS-4@18'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17350 Analyst: BC

Gasoline	85.7	36.7	D	mg/Kg-dry	10	10/13/2014 4:18:00 PM
Surr: 4-Bromofluorobenzene	102	65-135		%REC	1	10/11/2014 7:58:00 PM
Surr: Toluene-d8	104	65-135		%REC	1	10/11/2014 7:58:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 8990 Analyst: BC

Benzene	ND	0.0147		mg/Kg-dry	1	10/11/2014 7:58:00 PM
Toluene	ND	0.0147		mg/Kg-dry	1	10/11/2014 7:58:00 PM
Ethylbenzene	ND	0.0220		mg/Kg-dry	1	10/11/2014 7:58:00 PM
m,p-Xylene	0.150	0.0147		mg/Kg-dry	1	10/11/2014 7:58:00 PM
o-Xylene	0.0433	0.0147		mg/Kg-dry	1	10/11/2014 7:58:00 PM
Surr: Dibromofluoromethane	104	63.7-129		%REC	1	10/11/2014 7:58:00 PM
Surr: Toluene-d8	101	64.3-131		%REC	1	10/11/2014 7:58:00 PM
Surr: 1-Bromo-4-fluorobenzene	99.6	63.1-141		%REC	1	10/11/2014 7:58:00 PM

Total Metals by EPA Method 6020

Batch ID: 8992 Analyst: TN

Lead	2.29	0.165		mg/Kg-dry	1	10/13/2014 2:58:03 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17343 Analyst: KZ

Percent Moisture	9.56			wt%	1	10/13/2014 8:16:39 AM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410089

Date Reported: 10/13/2014

Client: Stantec Consulting Corporation
Project: 25983 UST Removal 2014
Lab ID: 1410089-017
Client Sample ID: SS-4@23'

Collection Date: 10/10/2014 8:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Gasoline by NWTPH-Gx</u>			Batch ID: R17350 Analyst: BC			
Gasoline	ND	3.23		mg/Kg-dry	1	10/11/2014 8:27:00 PM
Surr: 4-Bromofluorobenzene	100	65-135		%REC	1	10/11/2014 8:27:00 PM
Surr: Toluene-d8	100	65-135		%REC	1	10/11/2014 8:27:00 PM
<u>Volatile Organic Compounds by EPA Method 8260</u>			Batch ID: 8990 Analyst: BC			
Benzene	ND	0.0129		mg/Kg-dry	1	10/11/2014 8:27:00 PM
Toluene	ND	0.0129		mg/Kg-dry	1	10/11/2014 8:27:00 PM
Ethylbenzene	ND	0.0194		mg/Kg-dry	1	10/11/2014 8:27:00 PM
m,p-Xylene	ND	0.0129		mg/Kg-dry	1	10/11/2014 8:27:00 PM
o-Xylene	ND	0.0129		mg/Kg-dry	1	10/11/2014 8:27:00 PM
Surr: Dibromofluoromethane	103	63.7-129		%REC	1	10/11/2014 8:27:00 PM
Surr: Toluene-d8	102	64.3-131		%REC	1	10/11/2014 8:27:00 PM
Surr: 1-Bromo-4-fluorobenzene	98.3	63.1-141		%REC	1	10/11/2014 8:27:00 PM
<u>Total Metals by EPA Method 6020</u>			Batch ID: 8992 Analyst: TN			
Lead	2.64	0.162		mg/Kg-dry	1	10/13/2014 3:01:28 PM
<u>Sample Moisture (Percent Moisture)</u>			Batch ID: R17343 Analyst: KZ			
Percent Moisture	5.47			wt%	1	10/13/2014 8:16:39 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit
 D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Work Order: 1410089
CLIENT: Stantec Consulting Corporation
Project: 25983 UST Removal 2014

QC SUMMARY REPORT
Total Metals by EPA Method 6020

Sample ID: MB-8992	SampType: MBLK	Units: mg/Kg	Prep Date: 10/13/2014	RunNo: 17359							
Client ID: MBLKS	Batch ID: 8992		Analysis Date: 10/13/2014	SeqNo: 347126							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.200

Sample ID: LCS-8992	SampType: LCS	Units: mg/Kg	Prep Date: 10/13/2014	RunNo: 17359							
Client ID: LCSS	Batch ID: 8992		Analysis Date: 10/13/2014	SeqNo: 347127							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 203 0.200 189.0 0 107 74.6 125.4

Sample ID: 1410089-001ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 10/13/2014	RunNo: 17359							
Client ID: PL@3'	Batch ID: 8992		Analysis Date: 10/13/2014	SeqNo: 347129							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 1.98 0.155 1.597 21.6 30

Sample ID: 1410089-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 10/13/2014	RunNo: 17359							
Client ID: PL@3'	Batch ID: 8992		Analysis Date: 10/13/2014	SeqNo: 347131							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 21.7 0.155 19.38 1.597 104 75 125

Sample ID: 1410089-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 10/13/2014	RunNo: 17359							
Client ID: PL@3'	Batch ID: 8992		Analysis Date: 10/13/2014	SeqNo: 347132							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 21.8 0.155 19.38 1.597 104 75 125 21.66 0.677 30

Qualifiers: B Analyte detected in the associated Method Blank
 D Dilution was required
 E Value above quantitation range
 H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits
 ND Not detected at the Reporting Limit
 R RPD outside accepted recovery limits
 RL Reporting Limit
 S Spike recovery outside accepted recovery limits

Work Order: 1410089
CLIENT: Stantec Consulting Corporation
Project: 25983 UST Removal 2014

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: 1410089-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 10/10/2014	RunNo: 17350							
Client ID: PL@3'	Batch ID: R17350		Analysis Date: 10/11/2014	SeqNo: 346971							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.16						0		30	
Surr: Toluene-d8	2.60		2.578		101	65	135		0		
Surr: 4-Bromofluorobenzene	2.61		2.578		101	65	135		0		

Sample ID: LCS-R17350	SampType: LCS	Units: mg/Kg	Prep Date: 10/11/2014	RunNo: 17350							
Client ID: LCSS	Batch ID: R17350		Analysis Date: 10/11/2014	SeqNo: 346983							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	25.6	5.00	25.00	0	103	65	135				
Surr: Toluene-d8	2.52		2.500		101	65	135				
Surr: 4-Bromofluorobenzene	2.54		2.500		102	65	135				

Sample ID: MB-R17350	SampType: MBLK	Units: mg/Kg	Prep Date: 10/11/2014	RunNo: 17350							
Client ID: MBLKS	Batch ID: R17350		Analysis Date: 10/11/2014	SeqNo: 346984							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: Toluene-d8	2.53		2.500		101	65	135				
Surr: 4-Bromofluorobenzene	2.51		2.500		100	65	135				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1410089
CLIENT: Stantec Consulting Corporation
Project: 25983 UST Removal 2014

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: 1410089-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 10/10/2014	RunNo: 17360							
Client ID: PL@3'	Batch ID: 8990		Analysis Date: 10/11/2014	SeqNo: 347168							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0138						0		30	
Toluene	ND	0.0138						0		30	
Ethylbenzene	ND	0.0207						0		30	
m,p-Xylene	ND	0.0138						0		30	
o-Xylene	ND	0.0138						0		30	
Surr: Dibromofluoromethane	1.87		1.723		109	63.7	129		0		
Surr: Toluene-d8	1.74		1.723		101	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.70		1.723		99.0	63.1	141		0		

Sample ID: 1410089-002BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 10/10/2014	RunNo: 17360							
Client ID: DSP-1	Batch ID: 8990		Analysis Date: 10/11/2014	SeqNo: 347170							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.682	0.0133	0.6625	0	103	63.5	133				
Toluene	0.613	0.0133	0.6625	0	92.5	63.4	132				
Ethylbenzene	0.689	0.0199	0.6625	0.006284	103	54.5	134				
m,p-Xylene	1.39	0.0133	1.325	0.03593	102	53.1	132				
o-Xylene	0.700	0.0133	0.6625	0.01826	103	53.3	139				
Surr: Dibromofluoromethane	1.60		1.656		96.8	63.7	129				
Surr: Toluene-d8	1.64		1.656		99.0	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.68		1.656		102	63.1	141				

Sample ID: LCS-8990	SampType: LCS	Units: mg/Kg	Prep Date: 10/10/2014	RunNo: 17360							
Client ID: LCSS	Batch ID: 8990		Analysis Date: 10/11/2014	SeqNo: 347179							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.945	0.0200	1.000	0	94.5	64.3	133				
Toluene	0.879	0.0200	1.000	0	87.9	67.3	138				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1410089
CLIENT: Stantec Consulting Corporation
Project: 25983 UST Removal 2014

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: LCS-8990	SampType: LCS	Units: mg/Kg				Prep Date: 10/10/2014	RunNo: 17360				
Client ID: LCSS	Batch ID: 8990					Analysis Date: 10/11/2014	SeqNo: 347179				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	0.951	0.0300	1.000	0	95.1	74	129				
m,p-Xylene	1.89	0.0200	2.000	0	94.6	79.8	128				
o-Xylene	0.954	0.0200	1.000	0	95.4	72.7	124				
Surr: Dibromofluoromethane	2.57		2.500		103	63.7	129				
Surr: Toluene-d8	2.54		2.500		102	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	2.53		2.500		101	63.1	141				

Sample ID: MB-8990	SampType: MBLK	Units: mg/Kg				Prep Date: 10/10/2014	RunNo: 17360				
Client ID: MBLKS	Batch ID: 8990					Analysis Date: 10/11/2014	SeqNo: 347180				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0200									
Toluene	ND	0.0200									
Ethylbenzene	ND	0.0300									
m,p-Xylene	ND	0.0200									
o-Xylene	ND	0.0200									
Surr: Dibromofluoromethane	2.58		2.500		103	63.7	129				
Surr: Toluene-d8	2.48		2.500		99.1	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	2.46		2.500		98.4	63.1	141				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Client Name: **STANTEC**

 Work Order Number: **1410089**

 Logged by: **Erica Silva**

 Date Received: **10/10/2014 4:30:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody seals intact on shipping container/cooler? Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is the headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C	Condition
Cooler	6.6	Good
Sample	8.4	Good



Fremont

Analytical

3600 Fremont Ave N. Tel: 206-352-3790
Seattle, WA 98103 Fax: 206-352-7178

Date: 10/10/14

Laboratory Project No (Internal): 1410089

Page: 1 of 2

Chain of Custody Record

Client: STANTEC

Address: 1130 NE 33rd Pl Ste 200

Project Name: 25983 UST REMOVAL 2014

Location: OLYMPIA, WA

City, State, zip: Bellevue, WA 98004

Tel: _____

Collected by: EMILY HARRIS

Project No: _____

Reports To (PM): PAUL FARBANOV

Fax: _____

Email: PAUL.FARBANOV@STANTEC.COM

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOC (EPA 8260)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/heavy Oil range Organics (OX)	SEMI-VOL (EPA 8270)	PAH (EPA 8270-SIM)	PCBs (EPA 8082)	Metals**	Total (T) 16020 / 200.8)	Anions (IC)**	EDB (8011)	Comments/Depth
1 PL@3'	10/9	11:00	SOIL	8	8	8	8	8	8	8	8	8	8	8	8	8	0 ppm
2 DSP-1	10/9	16:00	1	8	8	8	8	8	8	8	8	8	8	8	8	8	1874
3 DSP-2	10/9	16:10	1	8	8	8	8	8	8	8	8	8	8	8	8	8	1546
4 DSP-3	10/9	16:20	1	8	8	8	8	8	8	8	8	8	8	8	8	8	2426
5 NORTH WALL@9'	10/9	14:45	1	8	8	8	8	8	8	8	8	8	8	8	8	8	0 ppm
6 DIW@5'	10/9	10:30	1	8	8	8	8	8	8	8	8	8	8	8	8	8	0 ppm
7 DIE@5'	10/9	11:15	1	8	8	8	8	8	8	8	8	8	8	8	8	8	1 ppm
8 DI@20'	10/9	13:45	1	8	8	8	8	8	8	8	8	8	8	8	8	8	2176 ppm
9 DI@26'	10/9	14:00	1	8	8	8	8	8	8	8	8	8	8	8	8	8	0 ppm
10 CSS-1@17'	10/10	10:15	1	8	8	8	8	8	8	8	8	8	8	8	8	8	5 ppm

Special Remarks: HOLD SAMPLES FOR EVAPORATIVE ANALYSIS

Relinquished: _____ Date/Time: 10/10/14 16:30

Received: _____ Date/Time: 10/10/14 16:30

Relinquished: _____ Date/Time: _____

Received: _____ Date/Time: _____

Sample Disposal: Return to Client Disposal by Lab (a fee may be assessed if samples are retained after 30 days.)

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

TAT -> SameDay NextDay 2 Day 3 Day STD

*Please coordinate with the lab in advance



3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Date: 10/10/14

Laboratory Project No (internal):

1410089

Chain of Custody Record

Client: STANTEC
Address: 1130 NE 33rd Pl ST 200
City, State, Zip: Bellevue WA 98004
Tel: _____
Reports To (PM): PAUL PRIBRZEN
Fax: _____

Project Name: 25983 UST REMOVAL 2014
Location: OLYMPIA, WA
Collected by: EMILY HARELL
Email: PAUL.FARBER@STANTEC.COM
Project No: _____

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)	VOC (EPA 8260)	SVOC (EPA 8260)	BTX (EPA 8260)	Gasoline Range Organics	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics	SQM VOL (EPA 8270)	PAH (EPA 8270)	PCBs (EPA 8270 - SIM)	CI Pesticides (EPA 8082)	CI Herbicides (EPA 8081)	Metals* (EPA 8151A)	Total (T) (EPA 8151A)	Anions (IC)**	Comments/Depth
1 CSS-2 @ 20'	10/10	10:45	SOIL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2 SS-1 @ 20'	10/9	14:30		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3 SS-1 @ 25'	10/9	14:40		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4 SS-2 @ 17'	10/10	10:00		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5 SS-3 @ 15'	10/10	9:00		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
6 SS-4 @ 18'	10/10	8:30		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7 SS-4 @ 23'	10/10	8:45		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
8																		
9																		
10																		

*Materials Analysis (Circle): MTCA-5 RCR-8 Priority Pollutants TML Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Se Sr Sn Tl U V Zn

**Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite

Sample Disposal: Return to Client Disposal by Lab (a fee may be assessed if samples are returned after 30 days.)

Rolling/Ship Date/Time: 10/10/14 16:30 Received: KORA YEA Date/Time: 10/10/14 6:30

Rein/Ship Date/Time: _____ Received: _____ Date/Time: _____

Special Remarks: HOLD SAMPLES FOR FURTHER ANALYSIS

TAT -> (Next Day) 2 Day 3 Day STD



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Stantec Consulting Corporation
Paul Fairbairn
11130 NE 33rd Pl, Suite 200
Bellevue, WA 98004

RE: 25983 Olympia UST Removal 2014
Lab ID: 1410164

October 22, 2014

Attention Paul Fairbairn:

Fremont Analytical, Inc. received 11 sample(s) on 10/16/2014 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Sample Moisture (Percent Moisture)
Total Metals by EPA Method 6020
Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway".

Mike Ridgeway
President



Date: 10/22/2014

CLIENT: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014
Lab Order: 1410164

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1410164-001	DSP-4	10/15/2014 1:30 PM	10/16/2014 8:17 AM
1410164-002	NORTH WALL@24'	10/15/2014 12:05 PM	10/16/2014 8:17 AM
1410164-003	SOUTH WALL@10'	10/15/2014 2:15 PM	10/16/2014 8:17 AM
1410164-004	EAST WALL@17'	10/14/2014 10:45 AM	10/16/2014 8:17 AM
1410164-005	EAST WALL@26'	10/14/2014 11:25 AM	10/16/2014 8:17 AM
1410164-006	CSS-3@17'	10/13/2014 10:50 AM	10/16/2014 8:17 AM
1410164-007	CSS-3@22'	10/13/2014 11:00 AM	10/16/2014 8:17 AM
1410164-008	CSS-4@18'	10/13/2014 9:30 AM	10/16/2014 8:17 AM
1410164-009	CSS-4@25'	10/13/2014 9:45 AM	10/16/2014 8:17 AM
1410164-010	CSS-5@18'	10/13/2014 12:15 PM	10/16/2014 8:17 AM
1410164-011	CSS-5@24'	10/13/2014 12:20 PM	10/16/2014 8:17 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Analytical Report

WO#: 1410164

Date Reported: 10/22/2014

Client: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014
Lab ID: 1410164-001
Client Sample ID: DSP-4

Collection Date: 10/15/2014 1:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17466 Analyst: BC

Gasoline	46.4	3.02		mg/Kg-dry	1	10/16/2014 6:55:00 PM
Surr: 4-Bromofluorobenzene	103	65-135		%REC	1	10/16/2014 6:55:00 PM
Surr: Toluene-d8	99.9	65-135		%REC	1	10/16/2014 6:55:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9041 Analyst: BC

Benzene	ND	0.0121		mg/Kg-dry	1	10/16/2014 6:55:00 PM
Toluene	ND	0.0121		mg/Kg-dry	1	10/16/2014 6:55:00 PM
Ethylbenzene	0.160	0.0181		mg/Kg-dry	1	10/16/2014 6:55:00 PM
m,p-Xylene	0.901	0.0121		mg/Kg-dry	1	10/16/2014 6:55:00 PM
o-Xylene	0.277	0.0121		mg/Kg-dry	1	10/16/2014 6:55:00 PM
Surr: Dibromofluoromethane	110	63.7-129		%REC	1	10/16/2014 6:55:00 PM
Surr: Toluene-d8	102	64.3-131		%REC	1	10/16/2014 6:55:00 PM
Surr: 1-Bromo-4-fluorobenzene	100	63.1-141		%REC	1	10/16/2014 6:55:00 PM

Total Metals by EPA Method 6020

Batch ID: 9045 Analyst: TN

Lead	2.25	0.164		mg/Kg-dry	1	10/18/2014 6:01:46 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17452 Analyst: KZ

Percent Moisture	8.19			wt%	1	10/16/2014 2:11:12 PM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit
 D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410164

Date Reported: 10/22/2014

Client: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014
Lab ID: 1410164-002
Client Sample ID: NORTH WALL@24'

Collection Date: 10/15/2014 12:05:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17466 Analyst: BC

Gasoline	ND	2.68		mg/Kg-dry	1	10/16/2014 7:24:00 PM
Surr: 4-Bromofluorobenzene	103	65-135		%REC	1	10/16/2014 7:24:00 PM
Surr: Toluene-d8	99.9	65-135		%REC	1	10/16/2014 7:24:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9041 Analyst: BC

Benzene	ND	0.0107		mg/Kg-dry	1	10/16/2014 7:24:00 PM
Toluene	ND	0.0107		mg/Kg-dry	1	10/16/2014 7:24:00 PM
Ethylbenzene	ND	0.0161		mg/Kg-dry	1	10/16/2014 7:24:00 PM
m,p-Xylene	ND	0.0107		mg/Kg-dry	1	10/16/2014 7:24:00 PM
o-Xylene	ND	0.0107		mg/Kg-dry	1	10/16/2014 7:24:00 PM
Surr: Dibromofluoromethane	109	63.7-129		%REC	1	10/16/2014 7:24:00 PM
Surr: Toluene-d8	101	64.3-131		%REC	1	10/16/2014 7:24:00 PM
Surr: 1-Bromo-4-fluorobenzene	101	63.1-141		%REC	1	10/16/2014 7:24:00 PM

Total Metals by EPA Method 6020

Batch ID: 9045 Analyst: TN

Lead	2.21	0.162		mg/Kg-dry	1	10/18/2014 6:25:51 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17452 Analyst: KZ

Percent Moisture	5.77			wt%	1	10/16/2014 2:11:12 PM
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Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410164

Date Reported: 10/22/2014

Client: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014
Lab ID: 1410164-003
Client Sample ID: SOUTH WALL@10'

Collection Date: 10/15/2014 2:15:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17466 Analyst: BC

Gasoline	ND	3.25		mg/Kg-dry	1	10/16/2014 8:22:00 PM
Surr: 4-Bromofluorobenzene	101	65-135		%REC	1	10/16/2014 8:22:00 PM
Surr: Toluene-d8	99.6	65-135		%REC	1	10/16/2014 8:22:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9041 Analyst: BC

Benzene	ND	0.0130		mg/Kg-dry	1	10/16/2014 8:22:00 PM
Toluene	ND	0.0130		mg/Kg-dry	1	10/16/2014 8:22:00 PM
Ethylbenzene	ND	0.0195		mg/Kg-dry	1	10/16/2014 8:22:00 PM
m,p-Xylene	ND	0.0130		mg/Kg-dry	1	10/16/2014 8:22:00 PM
o-Xylene	ND	0.0130		mg/Kg-dry	1	10/16/2014 8:22:00 PM
Surr: Dibromofluoromethane	101	63.7-129		%REC	1	10/16/2014 8:22:00 PM
Surr: Toluene-d8	100	64.3-131		%REC	1	10/16/2014 8:22:00 PM
Surr: 1-Bromo-4-fluorobenzene	99.0	63.1-141		%REC	1	10/16/2014 8:22:00 PM

Total Metals by EPA Method 6020

Batch ID: 9045 Analyst: TN

Lead	7.01	0.162		mg/Kg-dry	1	10/18/2014 6:36:13 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17452 Analyst: KZ

Percent Moisture	6.23			wt%	1	10/16/2014 2:11:12 PM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit
 D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410164

Date Reported: 10/22/2014

Client: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014
Lab ID: 1410164-004
Client Sample ID: EAST WALL @17'

Collection Date: 10/14/2014 10:45:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17466 Analyst: BC

Gasoline	517	53.9	D	mg/Kg-dry	20	10/17/2014 12:45:00 PM
Surr: 4-Bromofluorobenzene	102	65-135		%REC	1	10/17/2014 4:33:00 AM
Surr: Toluene-d8	101	65-135		%REC	1	10/17/2014 4:33:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9041 Analyst: BC

Benzene	ND	0.0108		mg/Kg-dry	1	10/17/2014 4:33:00 AM
Toluene	4.07	0.216	D	mg/Kg-dry	20	10/17/2014 12:45:00 PM
Ethylbenzene	6.38	0.323	D	mg/Kg-dry	20	10/17/2014 12:45:00 PM
m,p-Xylene	29.2	0.216	D	mg/Kg-dry	20	10/17/2014 12:45:00 PM
o-Xylene	11.7	0.216	D	mg/Kg-dry	20	10/17/2014 12:45:00 PM
Surr: Dibromofluoromethane	106	63.7-129		%REC	1	10/17/2014 4:33:00 AM
Surr: Toluene-d8	103	64.3-131		%REC	1	10/17/2014 4:33:00 AM
Surr: 1-Bromo-4-fluorobenzene	98.7	63.1-141		%REC	1	10/17/2014 4:33:00 AM

Total Metals by EPA Method 6020

Batch ID: 9045 Analyst: TN

Lead	2.40	0.168		mg/Kg-dry	1	10/18/2014 6:39:39 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17452 Analyst: KZ

Percent Moisture	7.50			wt%	1	10/16/2014 2:11:12 PM
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Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410164

Date Reported: 10/22/2014

Client: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014
Lab ID: 1410164-005
Client Sample ID: EAST WALL @26'

Collection Date: 10/14/2014 11:25:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17466 Analyst: BC

Gasoline	ND	2.81		mg/Kg-dry	1	10/16/2014 10:17:00 PM
Surr: 4-Bromofluorobenzene	101	65-135		%REC	1	10/16/2014 10:17:00 PM
Surr: Toluene-d8	99.3	65-135		%REC	1	10/16/2014 10:17:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9041 Analyst: BC

Benzene	ND	0.0112		mg/Kg-dry	1	10/16/2014 10:17:00 PM
Toluene	0.0152	0.0112		mg/Kg-dry	1	10/16/2014 10:17:00 PM
Ethylbenzene	ND	0.0169		mg/Kg-dry	1	10/16/2014 10:17:00 PM
m,p-Xylene	0.0219	0.0112		mg/Kg-dry	1	10/16/2014 10:17:00 PM
o-Xylene	ND	0.0112		mg/Kg-dry	1	10/16/2014 10:17:00 PM
Surr: Dibromofluoromethane	111	63.7-129		%REC	1	10/16/2014 10:17:00 PM
Surr: Toluene-d8	101	64.3-131		%REC	1	10/16/2014 10:17:00 PM
Surr: 1-Bromo-4-fluorobenzene	99.6	63.1-141		%REC	1	10/16/2014 10:17:00 PM

Total Metals by EPA Method 6020

Batch ID: 9045 Analyst: TN

Lead	2.19	0.159		mg/Kg-dry	1	10/18/2014 6:43:05 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17452 Analyst: KZ

Percent Moisture	5.55			wt%	1	10/16/2014 2:11:12 PM
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Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410164

Date Reported: 10/22/2014

Client: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014
Lab ID: 1410164-006
Client Sample ID: CSS-3@17'

Collection Date: 10/13/2014 10:50:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17466 Analyst: BC

Gasoline	ND	3.04		mg/Kg-dry	1	10/16/2014 10:46:00 PM
Surr: 4-Bromofluorobenzene	100	65-135		%REC	1	10/16/2014 10:46:00 PM
Surr: Toluene-d8	99.9	65-135		%REC	1	10/16/2014 10:46:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9041 Analyst: BC

Benzene	ND	0.0122		mg/Kg-dry	1	10/16/2014 10:46:00 PM
Toluene	ND	0.0122		mg/Kg-dry	1	10/16/2014 10:46:00 PM
Ethylbenzene	ND	0.0182		mg/Kg-dry	1	10/16/2014 10:46:00 PM
m,p-Xylene	ND	0.0122		mg/Kg-dry	1	10/16/2014 10:46:00 PM
o-Xylene	ND	0.0122		mg/Kg-dry	1	10/16/2014 10:46:00 PM
Surr: Dibromofluoromethane	105	63.7-129		%REC	1	10/16/2014 10:46:00 PM
Surr: Toluene-d8	99.9	64.3-131		%REC	1	10/16/2014 10:46:00 PM
Surr: 1-Bromo-4-fluorobenzene	98.2	63.1-141		%REC	1	10/16/2014 10:46:00 PM

Total Metals by EPA Method 6020

Batch ID: 9045 Analyst: TN

Lead	1.76	0.167		mg/Kg-dry	1	10/18/2014 6:46:31 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17452 Analyst: KZ

Percent Moisture	7.89			wt%	1	10/16/2014 2:11:12 PM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit
 D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410164

Date Reported: 10/22/2014

Client: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014
Lab ID: 1410164-007
Client Sample ID: CSS-3@22'

Collection Date: 10/13/2014 11:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17466 Analyst: BC

Gasoline	ND	2.63		mg/Kg-dry	1	10/16/2014 11:15:00 PM
Surr: 4-Bromofluorobenzene	102	65-135		%REC	1	10/16/2014 11:15:00 PM
Surr: Toluene-d8	99.9	65-135		%REC	1	10/16/2014 11:15:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9041 Analyst: BC

Benzene	ND	0.0105		mg/Kg-dry	1	10/16/2014 11:15:00 PM
Toluene	ND	0.0105		mg/Kg-dry	1	10/16/2014 11:15:00 PM
Ethylbenzene	ND	0.0158		mg/Kg-dry	1	10/16/2014 11:15:00 PM
m,p-Xylene	ND	0.0105		mg/Kg-dry	1	10/16/2014 11:15:00 PM
o-Xylene	ND	0.0105		mg/Kg-dry	1	10/16/2014 11:15:00 PM
Surr: Dibromofluoromethane	91.2	63.7-129		%REC	1	10/16/2014 11:15:00 PM
Surr: Toluene-d8	98.1	64.3-131		%REC	1	10/16/2014 11:15:00 PM
Surr: 1-Bromo-4-fluorobenzene	99.7	63.1-141		%REC	1	10/16/2014 11:15:00 PM

Total Metals by EPA Method 6020

Batch ID: 9045 Analyst: TN

Lead	1.62	0.159		mg/Kg-dry	1	10/18/2014 6:49:57 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17452 Analyst: KZ

Percent Moisture	4.81			wt%	1	10/16/2014 2:11:12 PM
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Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410164

Date Reported: 10/22/2014

Client: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014
Lab ID: 1410164-008
Client Sample ID: CSS-4@18'

Collection Date: 10/13/2014 9:30:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17466 Analyst: BC

Gasoline	ND	3.00		mg/Kg-dry	1	10/16/2014 11:44:00 PM
Surr: 4-Bromofluorobenzene	101	65-135		%REC	1	10/16/2014 11:44:00 PM
Surr: Toluene-d8	99.6	65-135		%REC	1	10/16/2014 11:44:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9041 Analyst: BC

Benzene	ND	0.0120		mg/Kg-dry	1	10/16/2014 11:44:00 PM
Toluene	ND	0.0120		mg/Kg-dry	1	10/16/2014 11:44:00 PM
Ethylbenzene	ND	0.0180		mg/Kg-dry	1	10/16/2014 11:44:00 PM
m,p-Xylene	ND	0.0120		mg/Kg-dry	1	10/16/2014 11:44:00 PM
o-Xylene	ND	0.0120		mg/Kg-dry	1	10/16/2014 11:44:00 PM
Surr: Dibromofluoromethane	107	63.7-129		%REC	1	10/16/2014 11:44:00 PM
Surr: Toluene-d8	100	64.3-131		%REC	1	10/16/2014 11:44:00 PM
Surr: 1-Bromo-4-fluorobenzene	98.6	63.1-141		%REC	1	10/16/2014 11:44:00 PM

Total Metals by EPA Method 6020

Batch ID: 9045 Analyst: TN

Lead	2.44	0.164		mg/Kg-dry	1	10/18/2014 6:53:22 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17452 Analyst: KZ

Percent Moisture	5.43			wt%	1	10/16/2014 2:11:12 PM
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Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410164

Date Reported: 10/22/2014

Client: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014
Lab ID: 1410164-009
Client Sample ID: CSS-4@25'

Collection Date: 10/13/2014 9:45:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17466 Analyst: BC

Gasoline	ND	3.22		mg/Kg-dry	1	10/17/2014 12:13:00 AM
Surr: 4-Bromofluorobenzene	101	65-135		%REC	1	10/17/2014 12:13:00 AM
Surr: Toluene-d8	101	65-135		%REC	1	10/17/2014 12:13:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9041 Analyst: BC

Benzene	ND	0.0129		mg/Kg-dry	1	10/17/2014 12:13:00 AM
Toluene	ND	0.0129		mg/Kg-dry	1	10/17/2014 12:13:00 AM
Ethylbenzene	ND	0.0193		mg/Kg-dry	1	10/17/2014 12:13:00 AM
m,p-Xylene	ND	0.0129		mg/Kg-dry	1	10/17/2014 12:13:00 AM
o-Xylene	ND	0.0129		mg/Kg-dry	1	10/17/2014 12:13:00 AM
Surr: Dibromofluoromethane	109	63.7-129		%REC	1	10/17/2014 12:13:00 AM
Surr: Toluene-d8	100	64.3-131		%REC	1	10/17/2014 12:13:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.2	63.1-141		%REC	1	10/17/2014 12:13:00 AM

Total Metals by EPA Method 6020

Batch ID: 9045 Analyst: TN

Lead	2.55	0.162		mg/Kg-dry	1	10/18/2014 6:56:48 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17452 Analyst: KZ

Percent Moisture	4.94			wt%	1	10/16/2014 2:11:12 PM
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Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410164

Date Reported: 10/22/2014

Client: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014
Lab ID: 1410164-010
Client Sample ID: CSS-5@18'

Collection Date: 10/13/2014 12:15:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17466 Analyst: BC

Gasoline	ND	3.49		mg/Kg-dry	1	10/17/2014 12:42:00 AM
Surr: 4-Bromofluorobenzene	100	65-135		%REC	1	10/17/2014 12:42:00 AM
Surr: Toluene-d8	101	65-135		%REC	1	10/17/2014 12:42:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9041 Analyst: BC

Benzene	ND	0.0140		mg/Kg-dry	1	10/17/2014 12:42:00 AM
Toluene	ND	0.0140		mg/Kg-dry	1	10/17/2014 12:42:00 AM
Ethylbenzene	ND	0.0210		mg/Kg-dry	1	10/17/2014 12:42:00 AM
m,p-Xylene	ND	0.0140		mg/Kg-dry	1	10/17/2014 12:42:00 AM
o-Xylene	ND	0.0140		mg/Kg-dry	1	10/17/2014 12:42:00 AM
Surr: Dibromofluoromethane	106	63.7-129		%REC	1	10/17/2014 12:42:00 AM
Surr: Toluene-d8	99.1	64.3-131		%REC	1	10/17/2014 12:42:00 AM
Surr: 1-Bromo-4-fluorobenzene	97.9	63.1-141		%REC	1	10/17/2014 12:42:00 AM

Total Metals by EPA Method 6020

Batch ID: 9045 Analyst: TN

Lead	2.53	0.158		mg/Kg-dry	1	10/18/2014 7:00:14 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17452 Analyst: KZ

Percent Moisture	4.00			wt%	1	10/16/2014 2:11:12 PM
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Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410164

Date Reported: 10/22/2014

Client: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014
Lab ID: 1410164-011
Client Sample ID: CSS-5@24'

Collection Date: 10/13/2014 12:20:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17466 Analyst: BC

Gasoline	ND	3.17		mg/Kg-dry	1	10/17/2014 1:11:00 AM
Surr: 4-Bromofluorobenzene	102	65-135		%REC	1	10/17/2014 1:11:00 AM
Surr: Toluene-d8	101	65-135		%REC	1	10/17/2014 1:11:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9041 Analyst: BC

Benzene	ND	0.0127		mg/Kg-dry	1	10/17/2014 1:11:00 AM
Toluene	ND	0.0127		mg/Kg-dry	1	10/17/2014 1:11:00 AM
Ethylbenzene	ND	0.0190		mg/Kg-dry	1	10/17/2014 1:11:00 AM
m,p-Xylene	ND	0.0127		mg/Kg-dry	1	10/17/2014 1:11:00 AM
o-Xylene	ND	0.0127		mg/Kg-dry	1	10/17/2014 1:11:00 AM
Surr: Dibromofluoromethane	112	63.7-129		%REC	1	10/17/2014 1:11:00 AM
Surr: Toluene-d8	100	64.3-131		%REC	1	10/17/2014 1:11:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.4	63.1-141		%REC	1	10/17/2014 1:11:00 AM

Total Metals by EPA Method 6020

Batch ID: 9045 Analyst: TN

Lead	2.82	0.171		mg/Kg-dry	1	10/18/2014 7:03:40 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17452 Analyst: KZ

Percent Moisture	7.73			wt%	1	10/16/2014 2:11:12 PM
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Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Work Order: 1410164
CLIENT: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014

QC SUMMARY REPORT
Total Metals by EPA Method 6020

Sample ID: MB-9045	SampType: MBLK	Units: mg/Kg	Prep Date: 10/17/2014	RunNo: 17480							
Client ID: MBLKS	Batch ID: 9045		Analysis Date: 10/18/2014	SeqNo: 348991							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.200

Sample ID: LCS-9045	SampType: LCS	Units: mg/Kg	Prep Date: 10/17/2014	RunNo: 17480							
Client ID: LCSS	Batch ID: 9045		Analysis Date: 10/18/2014	SeqNo: 348992							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 204 0.200 189.0 0 108 74.6 125.4

Sample ID: 1410164-001ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 10/17/2014	RunNo: 17480							
Client ID: DSP-4	Batch ID: 9045		Analysis Date: 10/18/2014	SeqNo: 348994							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 2.40 0.164 2.245 6.83 30

Sample ID: 1410164-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 10/17/2014	RunNo: 17480							
Client ID: DSP-4	Batch ID: 9045		Analysis Date: 10/18/2014	SeqNo: 348997							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 23.4 0.164 20.47 2.245 104 75 125

Sample ID: 1410164-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 10/17/2014	RunNo: 17480							
Client ID: DSP-4	Batch ID: 9045		Analysis Date: 10/18/2014	SeqNo: 348998							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 24.1 0.163 20.32 2.245 107 75 125 23.44 2.68 30

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits
 D Dilution was required
 J Analyte detected below quantitation limits
 RL Reporting Limit
 E Value above quantitation range
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Work Order: 1410164
CLIENT: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: 1410164-002BDUP	SampType: DUP	Units: mg/Kg-dry				Prep Date: 10/16/2014	RunNo: 17466				
Client ID: NORTH WALL@24'	Batch ID: R17466					Analysis Date: 10/16/2014	SeqNo: 348778				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	2.68						0		30	
Surr: Toluene-d8	1.34		1.338		100	65	135		0		
Surr: 4-Bromofluorobenzene	1.35		1.338		101	65	135		0		

Sample ID: LCS-R17466	SampType: LCS	Units: mg/Kg				Prep Date: 10/16/2014	RunNo: 17466				
Client ID: LCSS	Batch ID: R17466					Analysis Date: 10/16/2014	SeqNo: 348795				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	27.0	5.00	25.00	0	108	65	135				
Surr: Toluene-d8	2.48		2.500		99.1	65	135				
Surr: 4-Bromofluorobenzene	2.55		2.500		102	65	135				

Sample ID: MB-R17466	SampType: MBLK	Units: mg/Kg				Prep Date: 10/16/2014	RunNo: 17466				
Client ID: MBLKS	Batch ID: R17466					Analysis Date: 10/16/2014	SeqNo: 348796				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: Toluene-d8	2.49		2.500		99.8	65	135				
Surr: 4-Bromofluorobenzene	2.54		2.500		102	65	135				

Sample ID: CCV-R17466D	SampType: CCV	Units: mg/Kg				Prep Date: 10/17/2014	RunNo: 17466				
Client ID: CCV	Batch ID: R17466					Analysis Date: 10/17/2014	SeqNo: 348983				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	514	5.00	500.0	0	103	80	120				
Surr: Toluene-d8	50.1		50.00		100	65	135				
Surr: 4-Bromofluorobenzene	51.5		50.00		103	65	135				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Date: 10/22/2014

Work Order: 1410164
CLIENT: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: CCV-R17466D	SampType: CCV	Units: mg/Kg	Prep Date: 10/17/2014	RunNo: 17466							
Client ID: CCV	Batch ID: R17466	Analysis Date: 10/17/2014	SeqNo: 348983								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1410164
CLIENT: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: 1410164-002BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 10/16/2014	RunNo: 17479							
Client ID: NORTH WALL@24'	Batch ID: 9041		Analysis Date: 10/16/2014	SeqNo: 348957							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0107						0		30	
Toluene	ND	0.0107						0		30	
Ethylbenzene	ND	0.0161						0		30	
m,p-Xylene	ND	0.0107						0		30	
o-Xylene	ND	0.0107						0		30	
Surr: Dibromofluoromethane	1.29		1.338		96.3	63.7	129		0		
Surr: Toluene-d8	1.34		1.338		100	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.33		1.338		99.3	63.1	141		0		

Sample ID: 1410164-003BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 10/16/2014	RunNo: 17479							
Client ID: SOUTH WALL@10'	Batch ID: 9041		Analysis Date: 10/16/2014	SeqNo: 348959							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.667	0.0130	0.6506	0	103	63.5	133				
Toluene	0.664	0.0130	0.6506	0	102	63.4	132				
Ethylbenzene	0.634	0.0195	0.6506	0	97.4	54.5	134				
m,p-Xylene	1.24	0.0130	1.301	0	95.1	53.1	132				
o-Xylene	0.634	0.0130	0.6506	0	97.4	53.3	139				
Surr: Dibromofluoromethane	1.69		1.627		104	63.7	129				
Surr: Toluene-d8	1.62		1.627		99.8	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.66		1.627		102	63.1	141				

Sample ID: CCV-9041C	SampType: CCV	Units: µg/L	Prep Date: 10/17/2014	RunNo: 17479							
Client ID: CCV	Batch ID: 9041		Analysis Date: 10/17/2014	SeqNo: 348969							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.4	0.0200	20.00	0	102	80	120				
Toluene	20.0	0.0200	20.00	0	99.9	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1410164
CLIENT: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	19.5	0.0300	20.00	0	97.4	80	120				
m,p-Xylene	37.3	0.0200	40.00	0	93.2	80	120				
o-Xylene	19.4	0.0200	20.00	0	97.0	80	120				
Surr: Dibromofluoromethane	41.3		50.00		82.5	63.7	129				
Surr: Toluene-d8	49.9		50.00		99.8	61.4	128				
Surr: 1-Bromo-4-fluorobenzene	50.7		50.00		101	63.1	141				

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.20	0.0200	1.000	0	120	64.3	133				
Toluene	1.03	0.0200	1.000	0	103	67.3	138				
Ethylbenzene	0.930	0.0300	1.000	0	93.0	74	129				
m,p-Xylene	1.83	0.0200	2.000	0	91.6	79.8	128				
o-Xylene	0.938	0.0200	1.000	0	93.8	72.7	124				
Surr: Dibromofluoromethane	2.64		2.500		105	63.7	129				
Surr: Toluene-d8	2.53		2.500		101	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	2.53		2.500		101	63.1	141				

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0200									
Toluene	ND	0.0200									
Ethylbenzene	ND	0.0300									
m,p-Xylene	ND	0.0200									

Qualifiers:
B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit
R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits

Work Order: 1410164
CLIENT: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: MB-9041	SampType: MBLK	Units: mg/Kg	Prep Date: 10/16/2014	RunNo: 17479							
Client ID: MBLKS	Batch ID: 9041		Analysis Date: 10/16/2014	SeqNo: 348971							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

o-Xylene	ND	0.0200									
Surr: Dibromofluoromethane	2.83		2.500		113	63.7	129				
Surr: Toluene-d8	2.55		2.500		102	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	2.48		2.500		99.4	63.1	141				

Qualifiers:
B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit
R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits

Client Name: **STANTEC**
 Logged by: **Clare Griggs**

Work Order Number: **1410164**
 Date Received: **10/16/2014 8:17:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 5. Custody seals intact on shipping container/cooler? Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is the headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C	Condition
Cooler	2.6	Good
Sample	1.8	Good
Temp Blank	1.7	Good



Fremont

3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Date: 10/16/14

Laboratory Project No (Internal):

410164

Page: 1

of: 1

Chain of Custody Record

Client: STRATEC Project Name: 25983 OLYMPIA UST REMOVAL 2014

Address: 11130 NE 33rd Pl Sk 200 Location: OLYMPIA, WA

City, State, Zip: BELEVUE, WA 98004 Tel: 425-860-9448 Collected by: EMILY HARPER

Reports To (PM): PAUL FALARAVEZ Fax: 206-352-7178 Email: PAUL.FALARAVEZ@FREMONTANALYTICAL.COM Project No: 410164

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOC (EPA 8260)	SVI/TEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DO)	SEM-VOL (EPA 8270 - Sulf)	PAH (EPA 8270 - Sulf)	PCBs (EPA 8082)	Metals** (6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDs (8011)	PTD ETADWS (ppm)	Comments/Depth
1 DSP-4	10/15	1330	SOIL														2130	
2 NORTH WALL @ 24'	10/15	1205															2	
3 SOUTH WALL @ 10'	10/15	1415															2285	
4 EAST WALL @ 17'	10/14	110:48															3 ppm	
5 EAST WALL @ 26'	10/14	1125															2	
6 CSS-3 @ 17'	10/13	1850															2	
7 CSS-3 @ 22'	10/13	1100															3	
8 CSS-4 @ 18'	10/13	930															4	
9 CSS-4 @ 25'	10/13	945															4	
10 CSS-5 @ 24'	10/13	12:15															%	

**Metals Analysis (Circle): MTCA-5 RCHA-8 Priority Pollutants TAL (individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na N Pb Sb Se Sr Sn Ti Tl U V Zn)

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide Fluoride Nitrate+Nitrite

Sample Disposal: Return to Client Disposal by Lab (A fee may be assessed if sample are retained after 30 days)

Relinquished: [Signature] Date/Time: 10/16/14 5am Received: [Signature] Date/Time: 10/16/14 8:17

Relinquished by: Sam Received by: Kerna Flynn

SPECIAL REMARKS:
HOLD SAMPLES FOR
ADDITIONAL ANALYSIS

TAT -> Same Day* Next Day* 2 Day 3 Day STD
*Please coordinate with the lab in advance



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Stantec Consulting Corporation

Paul Fairbairn
11130 NE 33rd Pl, Suite 200
Bellevue, WA 98004

RE: 25983 Olympia UST Removal 2014

Lab ID: 1410197

November 11, 2014

Attention Paul Fairbairn:

Fremont Analytical, Inc. received 10 sample(s) on 10/20/2014 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)
Sample Moisture (Percent Moisture)
Total Metals by EPA Method 6020
Volatile Organic Compounds by EPA Method 8260
Volatile Petroleum Hydrocarbons by NWVPH

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway", written in a cursive style.

Mike Ridgeway
President



Date: 11/11/2014

CLIENT: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014
Lab Order: 1410197

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1410197-001	DSP-5	10/16/2014 9:45 AM	10/20/2014 7:57 AM
1410197-002	DSP-6	10/16/2014 10:00 AM	10/20/2014 7:57 AM
1410197-003	CSS-6@18'	10/16/2014 10:15 AM	10/20/2014 7:57 AM
1410197-004	CSS-7@23'	10/16/2014 10:45 AM	10/20/2014 7:57 AM
1410197-005	CSS-8@25'	10/16/2014 1:15 PM	10/20/2014 7:57 AM
1410197-006	CSS-9@16	10/16/2014 1:40 PM	10/20/2014 7:57 AM
1410197-007	CSS-10@16'	10/16/2014 3:00 PM	10/20/2014 7:57 AM
1410197-008	SB-3@16'	10/16/2014 3:55 PM	10/20/2014 7:57 AM
1410197-009	SB-3@17'	10/16/2014 2:00 PM	10/20/2014 7:57 AM
1410197-010	Trip Blank	10/01/2014 2:50 PM	10/20/2014 7:57 AM



Case Narrative

WO#: 1410197

Date: 11/11/2014

CLIENT: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Analytical Report

WO#: 1410197

Date Reported: 11/11/2014

Client: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014
Lab ID: 1410197-001
Client Sample ID: DSP-5

Collection Date: 10/16/2014 9:45:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Gasoline by NWTPH-Gx</u>					Batch ID: R17531	Analyst: BC
Gasoline	330	29.3	D	mg/Kg-dry	10	10/23/2014 3:49:00 PM
Surr: 4-Bromofluorobenzene	104	65-135		%REC	1	10/21/2014 9:05:00 AM
Surr: Toluene-d8	102	65-135		%REC	1	10/21/2014 9:05:00 AM
<u>Volatile Organic Compounds by EPA Method 8260</u>					Batch ID: 9063	Analyst: BC
Benzene	ND	0.0117		mg/Kg-dry	1	10/21/2014 9:05:00 AM
Toluene	0.0225	0.0117		mg/Kg-dry	1	10/21/2014 9:05:00 AM
Ethylbenzene	1.28	0.0176		mg/Kg-dry	1	10/21/2014 9:05:00 AM
m,p-Xylene	6.40	0.117	D	mg/Kg-dry	10	10/23/2014 3:49:00 PM
o-Xylene	2.19	0.117	D	mg/Kg-dry	10	10/23/2014 3:49:00 PM
Surr: Dibromofluoromethane	100	63.7-129		%REC	1	10/21/2014 9:05:00 AM
Surr: Toluene-d8	99.5	64.3-131		%REC	1	10/21/2014 9:05:00 AM
Surr: 1-Bromo-4-fluorobenzene	101	63.1-141		%REC	1	10/21/2014 9:05:00 AM
<u>Total Metals by EPA Method 6020</u>					Batch ID: 9067	Analyst: TN
Lead	2.10	0.179		mg/Kg-dry	1	10/21/2014 7:04:28 PM
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R17519	Analyst: KZ
Percent Moisture	8.63			wt%	1	10/21/2014 8:13:27 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit
 D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410197

Date Reported: 11/11/2014

Client: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014
Lab ID: 1410197-002
Client Sample ID: DSP-6

Collection Date: 10/16/2014 10:00:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Gasoline by NWTPH-Gx</u>					Batch ID: R17531	Analyst: BC
Gasoline	934	138	D	mg/Kg-dry	50	10/23/2014 4:47:00 PM
Surr: 4-Bromofluorobenzene	108	65-135		%REC	1	10/21/2014 10:03:00 AM
Surr: Toluene-d8	102	65-135		%REC	1	10/21/2014 10:03:00 AM
<u>Volatile Organic Compounds by EPA Method 8260</u>					Batch ID: 9063	Analyst: BC
Benzene	ND	0.0111		mg/Kg-dry	1	10/21/2014 10:03:00 AM
Toluene	0.260	0.0111		mg/Kg-dry	1	10/21/2014 10:03:00 AM
Ethylbenzene	5.31	0.831	D	mg/Kg-dry	50	10/23/2014 4:47:00 PM
m,p-Xylene	29.6	0.554	D	mg/Kg-dry	50	10/23/2014 4:47:00 PM
o-Xylene	10.8	0.554	D	mg/Kg-dry	50	10/23/2014 4:47:00 PM
Surr: Dibromofluoromethane	89.8	63.7-129		%REC	1	10/21/2014 10:03:00 AM
Surr: Toluene-d8	98.3	64.3-131		%REC	1	10/21/2014 10:03:00 AM
Surr: 1-Bromo-4-fluorobenzene	104	63.1-141		%REC	1	10/21/2014 10:03:00 AM
<u>Total Metals by EPA Method 6020</u>					Batch ID: 9067	Analyst: TN
Lead	2.09	0.179		mg/Kg-dry	1	10/21/2014 7:14:49 PM
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R17519	Analyst: KZ
Percent Moisture	12.1			wt%	1	10/21/2014 8:13:27 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit
 D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410197

Date Reported: 11/11/2014

Client: Stantec Consulting Corporation

Collection Date: 10/16/2014 10:15:00 AM

Project: 25983 Olympia UST Removal 2014

Lab ID: 1410197-003

Matrix: Soil

Client Sample ID: CSS-6@18'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 9246

Analyst: NG

Naphthalene	ND	53.3	H	µg/Kg-dry	1	11/10/2014 9:40:00 PM
2-Methylnaphthalene	ND	53.3	H	µg/Kg-dry	1	11/10/2014 9:40:00 PM
1-Methylnaphthalene	ND	53.3	H	µg/Kg-dry	1	11/10/2014 9:40:00 PM
Surr: 2-Fluorobiphenyl	108	42.7-132	H	%REC	1	11/10/2014 9:40:00 PM
Surr: Terphenyl-d14 (surr)	115	48.8-157	H	%REC	1	11/10/2014 9:40:00 PM

Gasoline by NWTPH-Gx

Batch ID: R17901

Analyst: BC

Gasoline	84.2	26.0	DH	mg/Kg-dry	10	11/8/2014 4:34:00 AM
Surr: 4-Bromofluorobenzene	103	65-135	H	%REC	1	11/6/2014 4:55:00 AM
Surr: Toluene-d8	101	65-135	H	%REC	1	11/6/2014 4:55:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9227

Analyst: BC

Methyl tert-butyl ether (MTBE)	ND	0.0260	H	mg/Kg-dry	1	11/6/2014 4:55:00 AM
1,2-Dichloroethane (EDC)	ND	0.0156	H	mg/Kg-dry	1	11/6/2014 4:55:00 AM
Benzene	ND	0.0104	H	mg/Kg-dry	1	11/6/2014 4:55:00 AM
Toluene	ND	0.0104	H	mg/Kg-dry	1	11/6/2014 4:55:00 AM
1,2-Dibromoethane (EDB)	ND	0.00260	H	mg/Kg-dry	1	11/6/2014 4:55:00 AM
Ethylbenzene	0.0452	0.0156	H	mg/Kg-dry	1	11/6/2014 4:55:00 AM
m,p-Xylene	0.242	0.0104	H	mg/Kg-dry	1	11/6/2014 4:55:00 AM
o-Xylene	0.0884	0.0104	H	mg/Kg-dry	1	11/6/2014 4:55:00 AM
Hexane	0.118	0.0104	H	mg/Kg-dry	1	11/6/2014 4:55:00 AM
Naphthalene	0.689	0.0156	H	mg/Kg-dry	1	11/6/2014 4:55:00 AM
Surr: Dibromofluoromethane	90.8	63.7-129	H	%REC	1	11/6/2014 4:55:00 AM
Surr: Toluene-d8	95.5	64.3-131	H	%REC	1	11/6/2014 4:55:00 AM
Surr: 1-Bromo-4-fluorobenzene	100	63.1-141	H	%REC	1	11/6/2014 4:55:00 AM

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 9084

Analyst: EM

Aliphatic Hydrocarbon (C5-C6)	ND	1.18		mg/Kg-dry	1	10/23/2014 8:01:00 AM
Aliphatic Hydrocarbon (C6-C8)	1.88	1.18		mg/Kg-dry	1	10/23/2014 8:01:00 AM
Aliphatic Hydrocarbon (C8-C10)	1.70	1.18		mg/Kg-dry	1	10/23/2014 8:01:00 AM
Aliphatic Hydrocarbon (C10-C12)	9.87	1.18		mg/Kg-dry	1	10/23/2014 8:01:00 AM
Aromatic Hydrocarbon (C8-C10)	8.28	1.18		mg/Kg-dry	1	10/23/2014 8:01:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Client: Stantec Consulting Corporation

Collection Date: 10/16/2014 10:15:00 AM

Project: 25983 Olympia UST Removal 2014

Lab ID: 1410197-003

Matrix: Soil

Client Sample ID: CSS-6@18'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Petroleum Hydrocarbons by NWVPH</u>				Batch ID: 9084		Analyst: EM
Aromatic Hydrocarbon (C10-C12)	44.4	11.8	D	mg/Kg-dry	10	10/23/2014 5:22:00 PM
Aromatic Hydrocarbon (C12-C13)	24.1	11.8	D	mg/Kg-dry	10	10/23/2014 5:22:00 PM
Surr: 1,4-Difluorobenzene	81.4	65-140		%REC	1	10/23/2014 8:01:00 AM
Surr: Bromofluorobenzene	95.1	65-140		%REC	1	10/23/2014 8:01:00 AM
<u>Total Metals by EPA Method 6020</u>				Batch ID: 9067		Analyst: TN
Lead	1.80	0.173		mg/Kg-dry	1	10/21/2014 7:18:15 PM
<u>Sample Moisture (Percent Moisture)</u>				Batch ID: R17519		Analyst: KZ
Percent Moisture	8.40			wt%	1	10/21/2014 8:13:27 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410197

Date Reported: 11/11/2014

Client: Stantec Consulting Corporation

Collection Date: 10/16/2014 10:45:00 AM

Project: 25983 Olympia UST Removal 2014

Lab ID: 1410197-004

Matrix: Soil

Client Sample ID: CSS-7@23'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 9246

Analyst: NG

Naphthalene	ND	53.0	H	µg/Kg-dry	1	11/10/2014 10:25:00 PM
2-Methylnaphthalene	ND	53.0	H	µg/Kg-dry	1	11/10/2014 10:25:00 PM
1-Methylnaphthalene	ND	53.0	H	µg/Kg-dry	1	11/10/2014 10:25:00 PM
Surr: 2-Fluorobiphenyl	109	42.7-132	H	%REC	1	11/10/2014 10:25:00 PM
Surr: Terphenyl-d14 (surr)	113	48.8-157	H	%REC	1	11/10/2014 10:25:00 PM

Gasoline by NWTPH-Gx

Batch ID: R17901

Analyst: BC

Gasoline	ND	3.17	H	mg/Kg-dry	1	11/6/2014 5:24:00 AM
Surr: 4-Bromofluorobenzene	102	65-135	H	%REC	1	11/6/2014 5:24:00 AM
Surr: Toluene-d8	101	65-135	H	%REC	1	11/6/2014 5:24:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9227

Analyst: BC

Methyl tert-butyl ether (MTBE)	ND	0.0317	H	mg/Kg-dry	1	11/6/2014 5:24:00 AM
1,2-Dichloroethane (EDC)	ND	0.0190	H	mg/Kg-dry	1	11/6/2014 5:24:00 AM
Benzene	ND	0.0127	H	mg/Kg-dry	1	11/6/2014 5:24:00 AM
Toluene	ND	0.0127	H	mg/Kg-dry	1	11/6/2014 5:24:00 AM
1,2-Dibromoethane (EDB)	ND	0.00317	H	mg/Kg-dry	1	11/6/2014 5:24:00 AM
Ethylbenzene	ND	0.0190	H	mg/Kg-dry	1	11/6/2014 5:24:00 AM
m,p-Xylene	ND	0.0127	H	mg/Kg-dry	1	11/6/2014 5:24:00 AM
o-Xylene	ND	0.0127	H	mg/Kg-dry	1	11/6/2014 5:24:00 AM
Hexane	ND	0.0127	H	mg/Kg-dry	1	11/6/2014 5:24:00 AM
Naphthalene	ND	0.0190	H	mg/Kg-dry	1	11/6/2014 5:24:00 AM
Surr: Dibromofluoromethane	89.4	63.7-129	H	%REC	1	11/6/2014 5:24:00 AM
Surr: Toluene-d8	97.0	64.3-131	H	%REC	1	11/6/2014 5:24:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.5	63.1-141	H	%REC	1	11/6/2014 5:24:00 AM

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 9084

Analyst: EM

Aliphatic Hydrocarbon (C5-C6)	ND	1.59		mg/Kg-dry	1	10/23/2014 9:08:00 AM
Aliphatic Hydrocarbon (C6-C8)	ND	1.59		mg/Kg-dry	1	10/23/2014 9:08:00 AM
Aliphatic Hydrocarbon (C8-C10)	ND	1.59		mg/Kg-dry	1	10/23/2014 9:08:00 AM
Aliphatic Hydrocarbon (C10-C12)	ND	1.59		mg/Kg-dry	1	10/23/2014 9:08:00 AM
Aromatic Hydrocarbon (C8-C10)	ND	1.59		mg/Kg-dry	1	10/23/2014 9:08:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410197

Date Reported: 11/11/2014

Client: Stantec Consulting Corporation

Collection Date: 10/16/2014 10:45:00 AM

Project: 25983 Olympia UST Removal 2014

Lab ID: 1410197-004

Matrix: Soil

Client Sample ID: CSS-7 @23'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Petroleum Hydrocarbons by NWVPH</u>					Batch ID: 9084	Analyst: EM
Aromatic Hydrocarbon (C10-C12)	ND	1.59		mg/Kg-dry	1	10/23/2014 9:08:00 AM
Aromatic Hydrocarbon (C12-C13)	ND	1.59		mg/Kg-dry	1	10/23/2014 9:08:00 AM
Surr: 1,4-Difluorobenzene	90.3	65-140		%REC	1	10/23/2014 9:08:00 AM
Surr: Bromofluorobenzene	92.1	65-140		%REC	1	10/23/2014 9:08:00 AM
<u>Total Metals by EPA Method 6020</u>					Batch ID: 9067	Analyst: TN
Lead	2.00	0.175		mg/Kg-dry	1	10/21/2014 7:21:41 PM
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R17519	Analyst: KZ
Percent Moisture	7.79			wt%	1	10/21/2014 8:13:27 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410197

Date Reported: 11/11/2014

Client: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014
Lab ID: 1410197-005
Client Sample ID: CSS-8@25'

Collection Date: 10/16/2014 1:15:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Gasoline by NWTPH-Gx</u>			Batch ID: R17531 Analyst: BC			
Gasoline	ND	2.83		mg/Kg-dry	1	10/23/2014 2:50:00 PM
Surr: 4-Bromofluorobenzene	104	65-135		%REC	1	10/21/2014 10:32:00 AM
Surr: Toluene-d8	103	65-135		%REC	1	10/21/2014 10:32:00 AM
<u>Volatile Organic Compounds by EPA Method 8260</u>			Batch ID: 9063 Analyst: BC			
Benzene	ND	0.0113		mg/Kg-dry	1	10/21/2014 10:32:00 AM
Toluene	ND	0.0113		mg/Kg-dry	1	10/23/2014 2:50:00 PM
Ethylbenzene	ND	0.0170		mg/Kg-dry	1	10/23/2014 2:50:00 PM
m,p-Xylene	ND	0.0113		mg/Kg-dry	1	10/23/2014 2:50:00 PM
o-Xylene	ND	0.0113		mg/Kg-dry	1	10/23/2014 2:50:00 PM
Surr: Dibromofluoromethane	118	63.7-129		%REC	1	10/21/2014 10:32:00 AM
Surr: Toluene-d8	98.8	64.3-131		%REC	1	10/21/2014 10:32:00 AM
Surr: 1-Bromo-4-fluorobenzene	102	63.1-141		%REC	1	10/21/2014 10:32:00 AM
<u>Total Metals by EPA Method 6020</u>			Batch ID: 9067 Analyst: TN			
Lead	2.00	0.169		mg/Kg-dry	1	10/21/2014 7:25:07 PM
<u>Sample Moisture (Percent Moisture)</u>			Batch ID: R17519 Analyst: KZ			
Percent Moisture	6.58			wt%	1	10/21/2014 8:13:27 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit
 D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410197

Date Reported: 11/11/2014

Client: Stantec Consulting Corporation

Collection Date: 10/16/2014 1:40:00 PM

Project: 25983 Olympia UST Removal 2014

Lab ID: 1410197-006

Matrix: Soil

Client Sample ID: CSS-9@16

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 9246

Analyst: NG

Naphthalene	ND	52.1	H	µg/Kg-dry	1	11/10/2014 11:10:00 PM
2-Methylnaphthalene	ND	52.1	H	µg/Kg-dry	1	11/10/2014 11:10:00 PM
1-Methylnaphthalene	ND	52.1	H	µg/Kg-dry	1	11/10/2014 11:10:00 PM
Surr: 2-Fluorobiphenyl	95.8	42.7-132	H	%REC	1	11/10/2014 11:10:00 PM
Surr: Terphenyl-d14 (surr)	105	48.8-157	H	%REC	1	11/10/2014 11:10:00 PM

Gasoline by NWTPH-Gx

Batch ID: R17901

Analyst: BC

Gasoline	ND	2.81	H	mg/Kg-dry	1	11/6/2014 6:22:00 AM
Surr: 4-Bromofluorobenzene	102	65-135	H	%REC	1	11/6/2014 6:22:00 AM
Surr: Toluene-d8	101	65-135	H	%REC	1	11/6/2014 6:22:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9227

Analyst: BC

Methyl tert-butyl ether (MTBE)	ND	0.0281	H	mg/Kg-dry	1	11/6/2014 6:22:00 AM
1,2-Dichloroethane (EDC)	ND	0.0169	H	mg/Kg-dry	1	11/6/2014 6:22:00 AM
Benzene	ND	0.0113	H	mg/Kg-dry	1	11/6/2014 6:22:00 AM
Toluene	ND	0.0113	H	mg/Kg-dry	1	11/6/2014 6:22:00 AM
1,2-Dibromoethane (EDB)	ND	0.00281	H	mg/Kg-dry	1	11/6/2014 6:22:00 AM
Ethylbenzene	ND	0.0169	H	mg/Kg-dry	1	11/6/2014 6:22:00 AM
m,p-Xylene	0.0384	0.0113	H	mg/Kg-dry	1	11/6/2014 6:22:00 AM
o-Xylene	0.0147	0.0113	H	mg/Kg-dry	1	11/6/2014 6:22:00 AM
Hexane	ND	0.0113	H	mg/Kg-dry	1	11/6/2014 6:22:00 AM
Naphthalene	0.0343	0.0169	H	mg/Kg-dry	1	11/6/2014 6:22:00 AM
Surr: Dibromofluoromethane	92.1	63.7-129	H	%REC	1	11/6/2014 6:22:00 AM
Surr: Toluene-d8	98.8	64.3-131	H	%REC	1	11/6/2014 6:22:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.1	63.1-141	H	%REC	1	11/6/2014 6:22:00 AM

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 9084

Analyst: EM

Aliphatic Hydrocarbon (C5-C6)	ND	1.12		mg/Kg-dry	1	10/23/2014 2:58:00 AM
Aliphatic Hydrocarbon (C6-C8)	ND	1.12		mg/Kg-dry	1	10/23/2014 2:58:00 AM
Aliphatic Hydrocarbon (C8-C10)	ND	1.12		mg/Kg-dry	1	10/23/2014 2:58:00 AM
Aliphatic Hydrocarbon (C10-C12)	ND	1.12		mg/Kg-dry	1	10/23/2014 2:58:00 AM
Aromatic Hydrocarbon (C8-C10)	ND	1.12		mg/Kg-dry	1	10/23/2014 2:58:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410197

Date Reported: 11/11/2014

Client: Stantec Consulting Corporation

Collection Date: 10/16/2014 1:40:00 PM

Project: 25983 Olympia UST Removal 2014

Lab ID: 1410197-006

Matrix: Soil

Client Sample ID: CSS-9@16

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Petroleum Hydrocarbons by NWVPH</u>					Batch ID: 9084	Analyst: EM
Aromatic Hydrocarbon (C10-C12)	1.67	1.12		mg/Kg-dry	1	10/23/2014 2:58:00 AM
Aromatic Hydrocarbon (C12-C13)	1.32	1.12		mg/Kg-dry	1	10/23/2014 2:58:00 AM
Surr: 1,4-Difluorobenzene	95.2	65-140		%REC	1	10/23/2014 2:58:00 AM
Surr: Bromofluorobenzene	93.3	65-140		%REC	1	10/23/2014 2:58:00 AM
<u>Total Metals by EPA Method 6020</u>					Batch ID: 9067	Analyst: TN
Lead	2.03	0.167		mg/Kg-dry	1	10/21/2014 7:28:33 PM
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R17519	Analyst: KZ
Percent Moisture	7.07			wt%	1	10/21/2014 8:13:27 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410197

Date Reported: 11/11/2014

Client: Stantec Consulting Corporation

Collection Date: 10/16/2014 3:00:00 PM

Project: 25983 Olympia UST Removal 2014

Lab ID: 1410197-007

Matrix: Soil

Client Sample ID: CSS-10@16'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 9246

Analyst: NG

Naphthalene	ND	56.4	H	µg/Kg-dry	1	11/10/2014 11:32:00 PM
2-Methylnaphthalene	ND	56.4	H	µg/Kg-dry	1	11/10/2014 11:32:00 PM
1-Methylnaphthalene	ND	56.4	H	µg/Kg-dry	1	11/10/2014 11:32:00 PM
Surr: 2-Fluorobiphenyl	98.2	42.7-132	H	%REC	1	11/10/2014 11:32:00 PM
Surr: Terphenyl-d14 (surr)	110	48.8-157	H	%REC	1	11/10/2014 11:32:00 PM

Gasoline by NWTPH-Gx

Batch ID: R17901

Analyst: BC

Gasoline	ND	3.20	H	mg/Kg-dry	1	11/6/2014 8:18:00 AM
Surr: 4-Bromofluorobenzene	102	65-135	H	%REC	1	11/6/2014 8:18:00 AM
Surr: Toluene-d8	101	65-135	H	%REC	1	11/6/2014 8:18:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9227

Analyst: BC

Methyl tert-butyl ether (MTBE)	ND	0.0320	H	mg/Kg-dry	1	11/6/2014 8:18:00 AM
1,2-Dichloroethane (EDC)	ND	0.0192	H	mg/Kg-dry	1	11/6/2014 8:18:00 AM
Benzene	ND	0.0128	H	mg/Kg-dry	1	11/6/2014 8:18:00 AM
Toluene	0.0382	0.0128	H	mg/Kg-dry	1	11/6/2014 8:18:00 AM
1,2-Dibromoethane (EDB)	ND	0.00320	H	mg/Kg-dry	1	11/6/2014 8:18:00 AM
Ethylbenzene	ND	0.0192	H	mg/Kg-dry	1	11/6/2014 8:18:00 AM
m,p-Xylene	0.0304	0.0128	H	mg/Kg-dry	1	11/6/2014 8:18:00 AM
o-Xylene	ND	0.0128	H	mg/Kg-dry	1	11/6/2014 8:18:00 AM
Hexane	ND	0.0128	H	mg/Kg-dry	1	11/6/2014 8:18:00 AM
Naphthalene	ND	0.0192	H	mg/Kg-dry	1	11/6/2014 8:18:00 AM
Surr: Dibromofluoromethane	92.7	63.7-129	H	%REC	1	11/6/2014 8:18:00 AM
Surr: Toluene-d8	96.2	64.3-131	H	%REC	1	11/6/2014 8:18:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.6	63.1-141	H	%REC	1	11/6/2014 8:18:00 AM

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 9084

Analyst: EM

Aliphatic Hydrocarbon (C5-C6)	ND	1.26		mg/Kg-dry	1	10/23/2014 4:05:00 AM
Aliphatic Hydrocarbon (C6-C8)	ND	1.26		mg/Kg-dry	1	10/23/2014 4:05:00 AM
Aliphatic Hydrocarbon (C8-C10)	ND	1.26		mg/Kg-dry	1	10/23/2014 4:05:00 AM
Aliphatic Hydrocarbon (C10-C12)	ND	1.26		mg/Kg-dry	1	10/23/2014 4:05:00 AM
Aromatic Hydrocarbon (C8-C10)	ND	1.26		mg/Kg-dry	1	10/23/2014 4:05:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410197

Date Reported: 11/11/2014

Client: Stantec Consulting Corporation

Collection Date: 10/16/2014 3:00:00 PM

Project: 25983 Olympia UST Removal 2014

Lab ID: 1410197-007

Matrix: Soil

Client Sample ID: CSS-10@16'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Petroleum Hydrocarbons by NWVPH</u>			Batch ID: 9084		Analyst: EM	
Aromatic Hydrocarbon (C10-C12)	ND	1.26		mg/Kg-dry	1	10/23/2014 4:05:00 AM
Aromatic Hydrocarbon (C12-C13)	ND	1.26		mg/Kg-dry	1	10/23/2014 4:05:00 AM
Surr: 1,4-Difluorobenzene	91.5	65-140		%REC	1	10/23/2014 4:05:00 AM
Surr: Bromofluorobenzene	93.7	65-140		%REC	1	10/23/2014 4:05:00 AM
<u>Total Metals by EPA Method 6020</u>			Batch ID: 9067		Analyst: TN	
Lead	3.03	0.178		mg/Kg-dry	1	10/21/2014 7:31:59 PM
<u>Sample Moisture (Percent Moisture)</u>			Batch ID: R17519		Analyst: KZ	
Percent Moisture	12.0			wt%	1	10/21/2014 8:13:27 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410197

Date Reported: 11/11/2014

Client: Stantec Consulting Corporation

Collection Date: 10/16/2014 3:55:00 PM

Project: 25983 Olympia UST Removal 2014

Lab ID: 1410197-008

Matrix: Soil

Client Sample ID: SB-3@16'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R17531 Analyst: BC

Gasoline	756	280	D	mg/Kg-dry	100	10/27/2014 11:53:00 AM
Surr: 4-Bromofluorobenzene	110	65-135		%REC	1	10/21/2014 11:01:00 AM
Surr: Toluene-d8	104	65-135		%REC	1	10/21/2014 11:01:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 9063 Analyst: BC

Benzene	ND	0.0112		mg/Kg-dry	1	10/21/2014 11:01:00 AM
Toluene	ND	0.0112		mg/Kg-dry	1	10/21/2014 11:01:00 AM
Ethylbenzene	0.451	0.0168		mg/Kg-dry	1	10/21/2014 11:01:00 AM
m,p-Xylene	3.15	0.112	D	mg/Kg-dry	10	10/23/2014 4:18:00 PM
o-Xylene	0.870	0.0112		mg/Kg-dry	1	10/21/2014 11:01:00 AM
Surr: Dibromofluoromethane	90.3	63.7-129		%REC	1	10/21/2014 11:01:00 AM
Surr: Toluene-d8	99.9	64.3-131		%REC	1	10/21/2014 11:01:00 AM
Surr: 1-Bromo-4-fluorobenzene	106	63.1-141		%REC	1	10/21/2014 11:01:00 AM

Total Metals by EPA Method 6020

Batch ID: 9067 Analyst: TN

Lead	2.04	0.167		mg/Kg-dry	1	10/21/2014 7:35:25 PM
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Sample Moisture (Percent Moisture)

Batch ID: R17519 Analyst: KZ

Percent Moisture	10.1			wt%	1	10/21/2014 8:13:27 AM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1410197

Date Reported: 11/11/2014

Client: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014
Lab ID: 1410197-009
Client Sample ID: SB-3@17'

Collection Date: 10/16/2014 2:00:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Gasoline by NWTPH-Gx</u>			Batch ID: R17531 Analyst: BC			
Gasoline	ND	3.16		mg/Kg-dry	1	10/23/2014 3:20:00 PM
Surr: 4-Bromofluorobenzene	104	65-135		%REC	1	10/21/2014 11:29:00 AM
Surr: Toluene-d8	102	65-135		%REC	1	10/21/2014 11:29:00 AM
<u>Volatile Organic Compounds by EPA Method 8260</u>			Batch ID: 9063 Analyst: BC			
Benzene	ND	0.0127		mg/Kg-dry	1	10/21/2014 11:29:00 AM
Toluene	ND	0.0127		mg/Kg-dry	1	10/23/2014 3:20:00 PM
Ethylbenzene	ND	0.0190		mg/Kg-dry	1	10/23/2014 3:20:00 PM
m,p-Xylene	ND	0.0127		mg/Kg-dry	1	10/23/2014 3:20:00 PM
o-Xylene	ND	0.0127		mg/Kg-dry	1	10/23/2014 3:20:00 PM
Surr: Dibromofluoromethane	105	63.7-129		%REC	1	10/21/2014 11:29:00 AM
Surr: Toluene-d8	94.7	64.3-131		%REC	1	10/21/2014 11:29:00 AM
Surr: 1-Bromo-4-fluorobenzene	102	63.1-141		%REC	1	10/21/2014 11:29:00 AM
<u>Total Metals by EPA Method 6020</u>			Batch ID: 9067 Analyst: TN			
Lead	2.16	0.163		mg/Kg-dry	1	10/21/2014 7:38:51 PM
<u>Sample Moisture (Percent Moisture)</u>			Batch ID: R17519 Analyst: KZ			
Percent Moisture	9.99			wt%	1	10/21/2014 8:13:27 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit
 D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Date: 11/11/2014

Work Order: 1410197
CLIENT: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014

QC SUMMARY REPORT
Total Metals by EPA Method 6020

Sample ID MB-9067	SampType: MBLK	Units: mg/Kg				Prep Date: 10/21/2014	RunNo: 17539				
Client ID: MBLKS	Batch ID: 9067					Analysis Date: 10/21/2014	SeqNo: 349984				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.200

Sample ID LCS-9067	SampType: LCS	Units: mg/Kg				Prep Date: 10/21/2014	RunNo: 17539				
Client ID: LCSS	Batch ID: 9067					Analysis Date: 10/21/2014	SeqNo: 349985				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 198 0.200 189.0 0 105 74.6 125.4

Sample ID 1410196-001ADUP	SampType: DUP	Units: mg/Kg-dry				Prep Date: 10/21/2014	RunNo: 17539				
Client ID: BATCH	Batch ID: 9067					Analysis Date: 10/21/2014	SeqNo: 349987				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 4.04 0.173 3.273 21.0 30

Sample ID 1410196-001AMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 10/21/2014	RunNo: 17539				
Client ID: BATCH	Batch ID: 9067					Analysis Date: 10/21/2014	SeqNo: 349989				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 24.6 0.173 21.64 3.273 98.6 75 125

Sample ID 1410196-001AMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 10/21/2014	RunNo: 17539				
Client ID: BATCH	Batch ID: 9067					Analysis Date: 10/21/2014	SeqNo: 349992				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 25.2 0.173 21.64 3.273 101 75 125 24.61 2.27 30

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
D Dilution was required
J Analyte detected below quantitation limits
RL Reporting Limit
E Value above quantitation range
ND Not detected at the Reporting Limit
S Spike recovery outside accepted recovery limits



Date: 11/11/2014

Work Order: 1410197
CLIENT: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID MB-9246	SampType: MBLK	Units: µg/Kg	Prep Date: 11/7/2014	RunNo: 17961							
Client ID: MBLKS	Batch ID: 9246		Analysis Date: 11/10/2014	SeqNo: 358025							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	50.0									
2-Methylnaphthalene	ND	50.0									
1-Methylnaphthalene	ND	50.0									
Surr: 2-Fluorobiphenyl	547		500.0		109	42.7	132				
Surr: Terphenyl-d14 (surr)	593		500.0		119	48.8	157				

Sample ID LCS-9246	SampType: LCS	Units: µg/Kg	Prep Date: 11/7/2014	RunNo: 17961							
Client ID: LCSS	Batch ID: 9246		Analysis Date: 11/10/2014	SeqNo: 358026							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	931	50.0	1,000	0	93.1	61.6	125				
2-Methylnaphthalene	975	50.0	1,000	0	97.5	58.2	129				
1-Methylnaphthalene	970	50.0	1,000	0	97.0	56.4	132				
Surr: 2-Fluorobiphenyl	528		500.0		106	42.7	132				
Surr: Terphenyl-d14 (surr)	558		500.0		112	48.8	157				

Sample ID 1410197-003ADUP	SampType: DUP	Units: µg/Kg-dry	Prep Date: 11/7/2014	RunNo: 17961							
Client ID: CSS-6@18'	Batch ID: 9246		Analysis Date: 11/10/2014	SeqNo: 358028							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	52.8						0		30	H
2-Methylnaphthalene	ND	52.8						0		30	H
1-Methylnaphthalene	ND	52.8						0		30	H
Surr: 2-Fluorobiphenyl	560		527.7		106	42.7	132		0		H
Surr: Terphenyl-d14 (surr)	569		527.7		108	48.8	157		0		H

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Date: 11/11/2014

Work Order: 1410197
CLIENT: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID	1410197-004AMS	SampType:	MS	Units:	µg/Kg-dry	Prep Date:	11/7/2014	RunNo:	17961		
Client ID:	CSS-7@23'	Batch ID:	9246			Analysis Date:	11/10/2014	SeqNo:	358037		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	962	52.2	1,044	0	92.2	42.9	138				H
2-Methylnaphthalene	1,090	52.2	1,044	0	104	42.8	151				H
1-Methylnaphthalene	1,090	52.2	1,044	0	104	41.6	148				H
Surr: 2-Fluorobiphenyl	552		521.9		106	42.7	132				H
Surr: Terphenyl-d14 (surr)	576		521.9		110	48.8	157				H

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Date: 11/11/2014

Work Order: 1410197
CLIENT: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID LCS-R17531	SampType: LCS	Units: mg/Kg				Prep Date: 10/21/2014	RunNo: 17531				
Client ID: LCSS	Batch ID: R17531					Analysis Date: 10/21/2014	SeqNo: 349847				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	24.5	5.00	25.00	0	97.8	65	135				
Surr: Toluene-d8	2.49		2.500		99.5	65	135				
Surr: 4-Bromofluorobenzene	2.54		2.500		101	65	135				

Sample ID MB-R17531	SampType: MBLK	Units: mg/Kg				Prep Date: 10/21/2014	RunNo: 17531				
Client ID: MBLKS	Batch ID: R17531					Analysis Date: 10/21/2014	SeqNo: 349848				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: Toluene-d8	2.50		2.500		99.9	65	135				
Surr: 4-Bromofluorobenzene	2.51		2.500		101	65	135				

Sample ID 1410197-001BDUP	SampType: DUP	Units: mg/Kg-dry				Prep Date: 10/20/2014	RunNo: 17531				
Client ID: DSP-5	Batch ID: R17531					Analysis Date: 10/21/2014	SeqNo: 351087				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	362	2.93						382.3	5.54	30	
Surr: Toluene-d8	1.52		1.466		103	65	135		0		
Surr: 4-Bromofluorobenzene	1.52		1.466		103	65	135		0		

Sample ID CCV-R17531C	SampType: CCV	Units: mg/Kg				Prep Date: 10/23/2014	RunNo: 17531				
Client ID: CCV	Batch ID: R17531					Analysis Date: 10/23/2014	SeqNo: 351097				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	425	5.00	500.0	0	85.1	80	120				
Surr: Toluene-d8	49.7		50.00		99.5	65	135				
Surr: 4-Bromofluorobenzene	51.6		50.00		103	65	135				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Date: 11/11/2014

Work Order: 1410197
CLIENT: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID CCV-R17531C	SampType: CCV	Units: mg/Kg	Prep Date: 10/23/2014	RunNo: 17531							
Client ID: CCV	Batch ID: R17531	Analysis Date: 10/23/2014	SeqNo: 351097								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID CCV-R17531D	SampType: CCV	Units: mg/Kg	Prep Date: 10/27/2014	RunNo: 17531							
Client ID: CCV	Batch ID: R17531	Analysis Date: 10/27/2014	SeqNo: 351371								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	485	5.00	500.0	0	97.0	80	120				
Surr: Toluene-d8	49.2		50.00		98.4	65	135				
Surr: 4-Bromofluorobenzene	51.1		50.00		102	65	135				

Sample ID LCS-R17901	SampType: LCS	Units: mg/Kg	Prep Date: 11/6/2014	RunNo: 17901							
Client ID: LCSS	Batch ID: R17901	Analysis Date: 11/6/2014	SeqNo: 356815								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	21.8	5.00	25.00	0	87.1	65	135				
Surr: Toluene-d8	2.49		2.500		99.4	65	135				
Surr: 4-Bromofluorobenzene	2.53		2.500		101	65	135				

Sample ID MB-R17901	SampType: MBLK	Units: mg/Kg	Prep Date: 11/6/2014	RunNo: 17901							
Client ID: MBLKS	Batch ID: R17901	Analysis Date: 11/6/2014	SeqNo: 356816								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	5.00									
Surr: Toluene-d8	2.44		2.500		97.6	65	135				
Surr: 4-Bromofluorobenzene	2.45		2.500		97.9	65	135				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Date: 11/11/2014

Work Order: 1410197
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Project: 25983 Olympia UST Removal 2014

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID 1410197-004BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 11/5/2014	RunNo: 17901							
Client ID: CSS-7@23'	Batch ID: R17901		Analysis Date: 11/6/2014	SeqNo: 356857							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	3.17						0		30	H
Surr: Toluene-d8	1.59		1.583		100	65	135		0		H
Surr: 4-Bromofluorobenzene	1.61		1.583		102	65	135		0		H

Sample ID CCV-R17901C	SampType: CCV	Units: mg/Kg	Prep Date: 11/8/2014	RunNo: 17901							
Client ID: CCV	Batch ID: R17901		Analysis Date: 11/8/2014	SeqNo: 357678							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	426	5.00	500.0	0	85.2	80	120				
Surr: Toluene-d8	50.9		50.00		102	65	135				
Surr: 4-Bromofluorobenzene	52.1		50.00		104	65	135				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Date: 11/11/2014

Work Order: 1410197
CLIENT: Stantec Consulting Corporation
Project: 25983 Olympia UST Removal 2014

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID 1410202-001BMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 10/20/2014	RunNo: 17524				
Client ID: BATCH	Batch ID: 9063					Analysis Date: 10/21/2014	SeqNo: 349664				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2.28	0.0453	2.264	0	101	63.5	133				
Toluene	2.25	0.0453	2.264	0.01985	98.6	63.4	132				
Ethylbenzene	2.16	0.0679	2.264	0	95.4	54.5	134				
m,p-Xylene	4.20	0.0453	4.528	0	92.8	53.1	132				
o-Xylene	2.13	0.0453	2.264	0	94.3	53.3	139				
Surr: Dibromofluoromethane	6.47		5.660		114	63.7	129				
Surr: Toluene-d8	5.70		5.660		101	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	5.82		5.660		103	63.1	141				

Sample ID LCS-9063	SampType: LCS	Units: mg/Kg				Prep Date: 10/20/2014	RunNo: 17524				
Client ID: LCSS	Batch ID: 9063					Analysis Date: 10/21/2014	SeqNo: 349666				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.939	0.0200	1.000	0	93.9	64.3	133				
Toluene	0.934	0.0200	1.000	0	93.4	67.3	138				
Ethylbenzene	0.899	0.0300	1.000	0	89.9	74	129				
m,p-Xylene	1.74	0.0200	2.000	0	87.0	79.8	128				
o-Xylene	0.897	0.0200	1.000	0	89.7	72.7	124				
Surr: Dibromofluoromethane	2.82		2.500		113	63.7	129				
Surr: Toluene-d8	2.52		2.500		101	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	2.56		2.500		102	63.1	141				

Sample ID MB-9063	SampType: MBLK	Units: mg/Kg				Prep Date: 10/20/2014	RunNo: 17524				
Client ID: MBLKS	Batch ID: 9063					Analysis Date: 10/21/2014	SeqNo: 349667				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0200									
Toluene	ND	0.0200									

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID MB-9063	SampType: MBLK	Units: mg/Kg	Prep Date: 10/20/2014	RunNo: 17524							
Client ID: MBLKS	Batch ID: 9063		Analysis Date: 10/21/2014	SeqNo: 349667							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ethylbenzene	ND	0.0300									
m,p-Xylene	ND	0.0200									
o-Xylene	ND	0.0200									
Surr: Dibromofluoromethane	2.62		2.500		105	63.7	129				
Surr: Toluene-d8	2.52		2.500		101	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	2.46		2.500		98.2	63.1	141				

Sample ID 1410197-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 10/20/2014	RunNo: 17524							
Client ID: DSP-5	Batch ID: 9063		Analysis Date: 10/21/2014	SeqNo: 350651							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	0.0117						0		30	
Toluene	0.0211	0.0117						0.02250	6.38	30	
Ethylbenzene	1.18	0.0176						1.283	8.01	30	
m,p-Xylene	6.16	0.0117						6.552	6.13	30	
o-Xylene	2.27	0.0117						2.447	7.69	30	
Surr: Dibromofluoromethane	1.57		1.466		107	63.7	129		0		
Surr: Toluene-d8	1.45		1.466		99.0	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.48		1.466		101	63.1	141		0		

Sample ID CCV-9063B	SampType: CCV	Units: µg/L	Prep Date: 10/23/2014	RunNo: 17524							
Client ID: CCV	Batch ID: 9063		Analysis Date: 10/23/2014	SeqNo: 351365							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	19.9	0.0200	20.00	0	99.5	80	120				
Ethylbenzene	19.3	0.0300	20.00	0	96.7	80	120				
m,p-Xylene	37.4	0.0200	40.00	0	93.4	80	120				
o-Xylene	19.1	0.0200	20.00	0	95.7	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID CCV-9063B	SampType: CCV	Units: µg/L	Prep Date: 10/23/2014	RunNo: 17524							
Client ID: CCV	Batch ID: 9063		Analysis Date: 10/23/2014	SeqNo: 351365							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Dibromofluoromethane	37.2		50.00		74.5	63.7	129				
Surr: Toluene-d8	50.0		50.00		100	61.4	128				
Surr: 1-Bromo-4-fluorobenzene	51.4		50.00		103	63.1	141				

Sample ID 1410197-004BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 11/5/2014	RunNo: 17919							
Client ID: CSS-7@23'	Batch ID: 9227		Analysis Date: 11/6/2014	SeqNo: 357180							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	ND	0.0317						0		30	H
1,2-Dichloroethane (EDC)	ND	0.0190						0		30	H
Benzene	ND	0.0127						0		30	H
Toluene	ND	0.0127						0		30	H
1,2-Dibromoethane (EDB)	ND	0.00317						0		30	H
Ethylbenzene	ND	0.0190						0		30	H
m,p-Xylene	ND	0.0127						0		30	H
o-Xylene	ND	0.0127						0		30	H
Hexane	ND	0.0127						0		30	H
Naphthalene	ND	0.0190						0		30	H
Surr: Dibromofluoromethane	1.42		1.583		89.5	63.7	129		0		H
Surr: Toluene-d8	1.55		1.583		98.0	64.3	131		0		H
Surr: 1-Bromo-4-fluorobenzene	1.57		1.583		99.3	63.1	141		0		H

Sample ID 1410197-006BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 11/5/2014	RunNo: 17919							
Client ID: CSS-9@16	Batch ID: 9227		Analysis Date: 11/6/2014	SeqNo: 357182							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	0.553	0.0281	0.5626	0	98.3	54.4	132				H
1,2-Dichloroethane (EDC)	0.625	0.0169	0.5626	0	111	51.3	139				H

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID 1410197-006BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 11/5/2014	RunNo: 17919							
Client ID: CSS-9@16	Batch ID: 9227		Analysis Date: 11/6/2014	SeqNo: 357182							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.548	0.0113	0.5626	0	97.3	63.5	133				H
Toluene	0.717	0.0113	0.5626	0.005249	127	63.4	132				H
1,2-Dibromoethane (EDB)	0.547	0.00281	0.5626	0	97.3	50.4	136				H
Ethylbenzene	0.608	0.0169	0.5626	0.007272	107	54.5	134				H
m,p-Xylene	1.22	0.0113	1.125	0.03843	105	53.1	132				H
o-Xylene	0.613	0.0113	0.5626	0.01472	106	53.3	139				H
Hexane	0.595	0.0113	0.5626	0	106	43.3	118				H
Naphthalene	0.646	0.0169	0.5626	0.03432	109	52.3	124				H
Surr: Dibromofluoromethane	1.57		1.407		111	63.7	129				H
Surr: Toluene-d8	1.38		1.407		98.4	64.3	131				H
Surr: 1-Bromo-4-fluorobenzene	1.44		1.407		103	63.1	141				H

NOTES:

S - Outlying QC recoveries were observed. The method is in control as indicated by the LCS.

Sample ID LCS-9227	SampType: LCS	Units: mg/Kg	Prep Date: 11/5/2014	RunNo: 17919							
Client ID: LCSS	Batch ID: 9227		Analysis Date: 11/6/2014	SeqNo: 357206							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.974	0.0500	1.000	0	97.4	59.1	138				
1,2-Dichloroethane (EDC)	1.03	0.0300	1.000	0	103	61.9	136				
Benzene	0.881	0.0200	1.000	0	88.1	64.3	133				
Toluene	0.881	0.0200	1.000	0	88.1	67.3	138				
1,2-Dibromoethane (EDB)	0.925	0.00500	1.000	0	92.5	70	130				
Ethylbenzene	0.956	0.0300	1.000	0	95.6	74	129				
m,p-Xylene	1.80	0.0200	2.000	0	89.8	79.8	128				
o-Xylene	0.930	0.0200	1.000	0	93.0	72.7	124				
Hexane	0.792	0.0200	1.000	0	79.2	56.6	132				
Naphthalene	1.04	0.0300	1.000	0	104	62.3	134				
Surr: Dibromofluoromethane	2.62		2.500		105	63.7	129				

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID LCS-9227	SampType: LCS	Units: mg/Kg	Prep Date: 11/5/2014	RunNo: 17919							
Client ID: LCSS	Batch ID: 9227		Analysis Date: 11/6/2014	SeqNo: 357206							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Toluene-d8	2.33		2.500		93.3	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	2.50		2.500		100	63.1	141				

Sample ID MB-9227	SampType: MBLK	Units: mg/Kg	Prep Date: 11/5/2014	RunNo: 17919							
Client ID: MBLKS	Batch ID: 9227		Analysis Date: 11/6/2014	SeqNo: 357207							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	ND	0.0500									
1,2-Dichloroethane (EDC)	ND	0.0300									
Benzene	ND	0.0200									
Toluene	ND	0.0200									
1,2-Dibromoethane (EDB)	ND	0.00500									
Ethylbenzene	ND	0.0300									
m,p-Xylene	ND	0.0200									
o-Xylene	ND	0.0200									
Hexane	ND	0.0200									
Naphthalene	ND	0.0300									
Surr: Dibromofluoromethane	2.09		2.500		83.6	63.7	129				
Surr: Toluene-d8	2.28		2.500		91.2	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	2.38		2.500		95.3	63.1	141				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



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Project: 25983 Olympia UST Removal 2014

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

Sample ID 1410197-006BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 10/22/2014	RunNo: 17639							
Client ID: CSS-9@16	Batch ID: 9084		Analysis Date: 10/23/2014	SeqNo: 351474							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aliphatic Hydrocarbon (C5-C6)	ND	1.12		0	0			0		25	
Aliphatic Hydrocarbon (C6-C8)	ND	1.12		0	0			0		25	
Aliphatic Hydrocarbon (C8-C10)	ND	1.12		0	0			0		25	
Aliphatic Hydrocarbon (C10-C12)	ND	1.12		0	0			0		25	
Aromatic Hydrocarbon (C8-C10)	ND	1.12		0	0			0		25	
Aromatic Hydrocarbon (C10-C12)	1.58	1.12		0	0			1.672	5.43	25	
Aromatic Hydrocarbon (C12-C13)	1.37	1.12		0	0			1.323	3.62	25	
Surr: 1,4-Difluorobenzene	1.24		1.397		88.6	65	140		0		
Surr: Bromofluorobenzene	1.27		1.397		91.0	65	140		0		

Sample ID 1410197-007BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 10/22/2014	RunNo: 17639							
Client ID: CSS-10@16'	Batch ID: 9084		Analysis Date: 10/23/2014	SeqNo: 351476							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aliphatic Hydrocarbon (C5-C6)	18.1	1.26	18.97	0	95.2	70	130				
Aliphatic Hydrocarbon (C6-C8)	5.04	1.26	6.322	0	79.8	70	130				
Aliphatic Hydrocarbon (C8-C10)	5.75	1.26	6.322	0	91.0	70	130				
Aliphatic Hydrocarbon (C10-C12)	5.30	1.26	6.322	0	83.8	70	130				
Aromatic Hydrocarbon (C8-C10)	28.0	1.26	25.29	0	111	70	130				
Aromatic Hydrocarbon (C10-C12)	6.48	1.26	6.322	0	103	70	130				
Aromatic Hydrocarbon (C12-C13)	5.21	1.26	6.322	0	82.4	70	130				
Surr: 1,4-Difluorobenzene	1.37		1.580		86.8	65	140				
Surr: Bromofluorobenzene	1.58		1.580		100	65	140				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



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Project: 25983 Olympia UST Removal 2014

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

Sample ID LCS-9084	SampType: LCS	Units: mg/Kg				Prep Date: 10/22/2014	RunNo: 17639				
Client ID: LCSS	Batch ID: 9084					Analysis Date: 10/23/2014	SeqNo: 351485				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	29.2	2.00	30.00	0	97.4	70	130				
Aliphatic Hydrocarbon (C6-C8)	9.07	2.00	10.00	0	90.7	70	130				
Aliphatic Hydrocarbon (C8-C10)	8.56	2.00	10.00	0	85.6	70	130				
Aliphatic Hydrocarbon (C10-C12)	8.71	2.00	10.00	0	87.1	70	130				
Aromatic Hydrocarbon (C8-C10)	39.3	2.00	40.00	0	98.2	70	130				
Aromatic Hydrocarbon (C10-C12)	10.3	2.00	10.00	0	103	70	130				
Aromatic Hydrocarbon (C12-C13)	10.3	2.00	10.00	0	103	70	130				
Surr: 1,4-Difluorobenzene	2.22		2.500		88.8	65	140				
Surr: Bromofluorobenzene	2.38		2.500		95.1	65	140				

Sample ID MB-9084	SampType: MBLK	Units: mg/Kg				Prep Date: 10/22/2014	RunNo: 17639				
Client ID: MBLKS	Batch ID: 9084					Analysis Date: 10/23/2014	SeqNo: 351486				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	ND	2.00		0	0						
Aliphatic Hydrocarbon (C6-C8)	ND	2.00		0	0						
Aliphatic Hydrocarbon (C8-C10)	ND	2.00		0	0						
Aliphatic Hydrocarbon (C10-C12)	ND	2.00		0	0						
Aromatic Hydrocarbon (C8-C10)	ND	2.00		0	0						
Aromatic Hydrocarbon (C10-C12)	ND	2.00		0	0						
Aromatic Hydrocarbon (C12-C13)	ND	2.00		0	0						
Surr: 1,4-Difluorobenzene	2.28		2.500		91.2	65	140				
Surr: Bromofluorobenzene	2.22		2.500		88.9	65	140				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Sample Log-In Check List

Client Name: **STANTEC**
 Logged by: **Erica Silva**

Work Order Number: **1410197**
 Date Received: **10/20/2014 7:57:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 5. Custody seals intact on shipping container/cooler? Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all coolers received at a temperature of >0°C to 10.0°C Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is the headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C	Condition
Cooler	4.4	Good
Sample	3.8	Good



Fremont Analytical

Chain of Custody Record

3600 Fremont Ave N. Tel: 206-352-3790
Seattle, WA 98103 Fax: 206-352-7178

Date: 10/16/14

Laboratory Project No (Internal): 1410197
Page: 1 of 1

Client: STANTEC
Address: 11130 NE 3312A SR 200
City, State, Zip: BELLEVUE, WA 98004
Tel: 425-866-9448

Project Name: 25983 OLYMPIA DST REMOVAL 2014
Location: OLYMPIA, WA
Collected by: EMILY HARPER
Email: PAUL.FAIRBAIRN@STANTEC.COM
Project No: 185750263

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes											Comments/Depth		
				PCB (EPA 8270)	PCB (EPA 8082)	Metals** (6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDB (8011)	VPH	Gasoline Range Organics (GX)	Diesel/Heavy Oil Range Organics (HX)	Hydrocarbon Identification (HCID)	SEMI VOL (EPA 8270)		PAH (EPA 8270 - SIM)	
1 DSD -5	10/16	9:45	SOIL	X	X	X	X	X	X	X	X	X	X	X	X	X	1647
2 DSP -6		1000		X	X	X	X	X	X	X	X	X	X	X	X	X	1866
3 CSS -6@18'		1015		X	X	X	X	X	X	X	X	X	X	X	X	X	1752 Final limit sample
4 CSS -7@23'		1045		X	X	X	X	X	X	X	X	X	X	X	X	X	30 AS
5 CSS -8@25'		1315		X	X	X	X	X	X	X	X	X	X	X	X	X	12
6 CSS -9@16'		1340		X	X	X	X	X	X	X	X	X	X	X	X	X	4
7 CSS -10@16'		1500		X	X	X	X	X	X	X	X	X	X	X	X	X	0
8 SB -3@16'		1555		X	X	X	X	X	X	X	X	X	X	X	X	X	1750
9 SB -3@17'		1400		X	X	X	X	X	X	X	X	X	X	X	X	X	171
10																	

**Metals Analysis (Circle): MITCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb 30 Se Sr Sn Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Sample Disposal: Return to Client Disposal by Lab (a fee may be assessed if samples are retained after 30 days)

Relinquished: [Signature] Date/Time: 10/20/14 7:00 Received: [Signature] Date/Time: 10/20/14 7:57

Special Remarks: HOLD SAMPLES IN CASE OF FURTHER ANALYSIS

TAT -> SameDay^ NextDay^ 2 Day 3 Day STD
*Please coordinate with the lab in advance

**APPENDIX C
PERMITS
UST SYSTEM REMOVAL REPORT
7-ELEVEN STORE NO. 25983**

January 6, 2015



Permit & Inspection Services

Community Planning and Development
 601 4th Ave E – PO Box 1967
 Olympia WA 98507-1967
 Phone: 360-753-8314
 Fax: 360-753-8087
 Email: cpdinfo@ci.olympia.wa.us
 Web: www.olympiawa.gov

COMMERCIAL INSPECTION CARD

Inspections: (360) 753-4444 Ext. 3001 - 24-hour Notice Required
Final Inspections: (360) 753-8314 - 72-hour Notice Required
 Or go to Site Line Online at www.ci.olympia.wa.us/cityservices/permit/

Permit #: 14-3029
 Site Address: 3541 Martin Way E
 Project Name: 7-11
 Contractor: Suybr Const Phone #: _____
 Owner/Applicant: _____

Inspection	Date	Inspector	Electrical	Date	Inspector
Site Work			Rough-in		
Special Inspection			Service		
Concrete			Low Voltage		
Footings			Communications		
Stem Walls			Sign		
CMU Walls			Insulation		
Underslab Plumbing			Floor		
Underslab Electrical			Walls		
Underslab Insulation			Ceiling/Roof		
Framing			Drywall		
Shear/Holdowns			Interior		
Exterior Framing			Exterior		
Interior Framing			Firewalls		
Roof Sheathing			Firestops		
Mechanical			Exterior		
Rough-in			Veneer/Eifs		
Gas Piping			Final Inspections		
Fire Dampers			Building		
Plumbing			Plumbing		
Rough-in			Mechanical		
Suspended Ceiling			Electrical		
Seismic struts/wires/lights			Planning		
			Fire Department		

Notes: _____

Building 143029 Date 9/30/14
 Contractor Suybr
Pin # 13 30752

PERMITS



CITY OF OLYMPIA

ENGINEERING PERMIT

File No. 14-3029

Job Address 3541 Martin Way
Owner _____
Contractor Saylor

Permit No. _____
Phone No. _____
Phone No. _____

Work Description	Approval Date	Insp. By
Sanitary Sewer System		
Water System		
Storm Sewer System		
Street/Alley Grades		
Sidewalk/Curb		
Driveway		
Street Lighting		
Paving		
<input checked="" type="checkbox"/> Clearing/Grading/Erosion		
STEP System		
Private Utility		
Street Closure(s)		
Traffic Control Plan		
Tree Removal		
Tree Protection		
R/W Excavation		
R/W Obstruction	Effective Date(s):	

Inspector: Pat Baysen
Phone No.: 753 8274

**THIS CARD MUST BE POSTED IN A
VISIBLE PLACE ON THE JOB SITE.**

This permit will expire _____ after
_____ day(s) per Section 3.080 & OMC 12.24.100.

J. King
Issued By _____ Date _____

Final Inspection By _____ Date _____
pin # 1330745

753-8348

OLYMPIA FIRE DEPARTMENT
FIRE PREVENTION DIVISION
FIRE PROTECTION SYSTEMS PERMIT



Job Description: Z-Eleven UST R

File No. 14-273

Address: 3541 Martin Way

Permit No. 14-3029

Owner: Z-Eleven

Issued By: Kevin Bosard

Contractor: TBD

Date: 9/15/14

SPRINKLER SYSTEM	FIRE ALARM	EXTINGUISHING SYSTEM	OTHER SYSTEM
Plans Approved:	Plans Approved:	Plans Approved:	Other: UST R
UG Cover:	Wiring Insp: (By Electrical Inspector)	Piping:	Plans Approved: 9/15/14
UG Piping:	Coverage:	Coverage:	Pre-Cover:
UG Hydro:	Final:	Final:	Final: 10/9/14 GSC
UG Flush:			
FDC Drains:			
System Hydro:			
Pipe/Brace/Cover:			
FA/Trip/Final:			
13D Flow Test:			
Tenting:			

All inspections require 48-hour notice
All fire system final inspections are to be scheduled with the Fire Department
Post this permit next to the building permit.

kbossard@ci.olympia.wa.us
rbradley@ci.olympia.wa.us

APPENDIX D
DEPARTMENT OF ECOLOGY UST NOTICES AND CHECKLIST
UST SYSTEM REMOVAL REPORT
7-ELEVEN STORE NO. 25983

January 6, 2015



UNDERGROUND STORAGE TANK Closure and Site Assessment Notice

FOR OFFICE USE ONLY	
Site ID #:	_____
Facility Site ID #:	_____

See back of form for instructions

Please the appropriate box(es)

- Temporary Tank Closure Change-In-Service Permanent Tank Closure Site Check/Site Assessment

Site Information

Site ID Number 8613
(Available from Ecology if the tanks are registered)

Site/Business Name 7-Eleven, Inc. Store No. 25983
Street

Site Address 3540 Martin Way E

City/State Olympia/WA

Zip Code 98506 Telephone (360) 847-1208

Owner Information

UST Owner/Operator 7-Eleven, Inc.

Mailing Address P.O. Box 711
Street

P.O. Box

City/State Dallas/TX.

Zip Code 75221 Telephone (214) 415-0146

Owners Signature _____

Tank Closure/Change-In-Service Company

Service Company Saybr Contractors Inc.

Certified Supervisor Mickey McAloon Decommissioning Certification No. 1042854

Supervisor's Signature *Mickey McAloon* Date 10/29/14

Address 3852 S 66th St
Street

Tacoma WA 98409 Telephone () 253-531-2144
City State Zip Code

Site Check/Site Assessor

Certified Site Assessor Emily Harper

Address 11130 NE 33rd Place Suite 200
Street

Bellevue WA. 98004 Telephone (425) 869-9448
City State Zip Code

Tank Information

Tank ID	Closure Date	Closure Method	Tank Capacity	Substance Stored
REG	10/08/2014	Removal	12,000	Unleaded Gasoline
NOL	10/08/2014	Removal	12,000	Unleaded Gasoline
SNL	10/08/2014	Removal	12,000	Unleaded Gasoline
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Contamination Present at the Time of Closure

Yes No Unknown
 Check unknown if no obvious contamination was observed and sample results have not yet been received from analytical lab.

Yes No
 If contamination is present, has the release been reported to the appropriate regional office?

To receive this document in an alternative format, contact the Toxics Cleanup Program at 360-407-7170 (voice) or 1-800-833-6388 OR 711 (TTY)



UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

FOR OFFICE USE ONLY
 Site #: _____
 Facility Site ID #: _____

INSTRUCTIONS

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person certified by ICC or a Washington registered professional engineer who is competent, by means of examination, experience, or education, to perform site assessments. **The results of the site check or site assessment must be included with this checklist.** This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This information must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

Underground Storage Tank Section
 Department of Ecology
 PO Box 47655
 Olympia WA 98504-7655

SITE INFORMATION

Site ID Number (Available from Ecology if the tanks are registered): 8613

Site/Business Name: 7-ELEVEN No. 25983

Site Address: 3540 MARTIN WAY E Telephone: (360) 847-1208

OLYMPIA City WA State 98506 Zip Code

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
<u>REG</u>	<u>12,000</u>	<u>UNLEADED GASOLINE</u>
<u>NOL</u>	<u>12,000</u>	<u>UNLEADED GASOLINE</u>
<u>SNL</u>	<u>12,000</u>	<u>UNLEADED GASOLINE</u>

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- Investigate suspected release due to on-site environmental contamination.
- Investigate suspected release due to off-site environmental contamination.
- Extend temporary closure of UST system for more than 12 months.
- UST system undergoing change-in-service.
- UST system permanently closed with tank removed.
- Abandoned tank containing product.
- Required by Ecology or delegated agency for UST system closed before 12/22/88.
- Other (describe): _____

CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

YES	NO
-----	----

- | | | |
|---|-----|-----|
| 1. The location of the UST site is shown on a vicinity map. | EJA | |
| 2. A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in site assessment guidance) | EJA | |
| 3. A summary of UST system data is provided. (see Section 3.1.) | EJA | |
| 4. The soils characteristics at the UST site are described. (see Section 5.2) | EJA | |
| 5. Is there any apparent groundwater in the tank excavation? | EJA | |
| 6. A brief description of the surrounding land use is provided. (see Section 3.1) | EJA | |
| 7. Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses. | EJA | |
| 8. A sketch or sketches showing the following items is provided: | | |
| - location and ID number for all field samples collected | EJA | |
| - groundwater samples distinguished from soil samples (if applicable) | | EJA |
| - samples collected from stockpiled excavated soil | EJA | |
| - tank and piping locations and limits of excavation pit | EJA | |
| - adjacent structures and streets | EJA | |
| - approximate locations of any on-site and nearby utilities | EJA | |
| 9. If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4) | | EJA |
| 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. | EJA | |
| 11. Any factors that may have compromised the quality of the data or validity of the results are described. | EJA | |

12. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred.

EJA	
-----	--

SITE ASSESSOR INFORMATION

EMILY HARPER WA STATE SITE ASSESSOR #8196039-47
 Person registered with Ecology

STANTEC CONSULTING SERVICES, INC.
 Firm Affiliated with

Business Address: 11130 NE 33rd Place Ste 200
 Street

Telephone: (425) 869-9448

BELLEVUE

City

WA

State

98004

Zip Code

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

11/25/14
 Date

Signature of Person Registered with Ecology

If you need this publication in an alternate format, please contact Toxics Cleanup Program at (360) 407-7170. For persons with a speech or hearing impairment call 711 for relay service or 800-833-6388 for TTY.

APPENDIX E
UST AND WASTE DISPOSAL DOCUMENTS
UST SYSTEM REMOVAL REPORT
7-ELEVEN STORE NO. 25983

January 6, 2015

This Shipping Order

must be legibly filled in, in Ink indelible Pencil, or in Carbon, and retained by the agent

Shipper No. 015903

Carrier No. 100

Date 10-7-16

MARINE VACUUM SERVICE INC.

Page 1 of 1

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee MARINE VACUUM SERVICE INC.

Street 1516 S. GRAHAM ST.

City SEATTLE State WA Zip Code 98108

FROM:
Shipper SAYBR Contractor Inc

Street 3541 Mariner Hwy E

City Olympia State WA Zip Code 98501

24 hr. Emergency Contact Tel. No. 800-540-7491

Route

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
<u>ATT</u>		<u>Waste Water Sludge</u>	<u>1,200</u>	<u>Gallons</u>		
			<u>100</u>	<u>Gallons</u>		

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____"
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(a) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature

REMIT
C.O.D. TO:
ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE:
PREPAID
COLLECT \$

TOTAL CHARGES \$

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipment hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER [Signature]

PER [Signature]

CARRIER MARINE VACUUM SERVICE INC.

PER [Signature]

DATE 10-7-16

Permanent post-office address of shipper.



CHANGE ORDER

3852 S 66th St
Tacoma, WA 98409
Phone: 253.531.2144
Fax: 253.536.2068

Job Number:	2141104	Change Order #:	1
Project Name:	Stantec 7-11 Olympia #25983	Date:	11/7/2014
Project Address:	3541 Martin Way East Olympia, WA. 98506		
<u>TO:</u>	Stantec Consulting Services Inc. Attn: Paul Fairbairn 11130 NE 33rd Place, Suite 200 Bellevue, WA. 98004		

Additional Scope: Load, transport & dispose PCS > 100 tons T&T

1392.74 tons	██████ per ton	\$	██████████
Total			\$ ██████████

The Original Contract Sum was:	\$	██████████
Net Change by previously authorized Change Orders:	\$	-
The Contract Sum prior to this Change Order was:	\$	██████████
The Contract Sum will be Increased	\$	██████████
The new Contract Sum including this Change Order will be:	\$	██████████
The Contract Time will be changed by:		5 days

Saybr Contractors, Inc.
3852 S. 66th Street
Tacoma, WA. 98409

Stantec Consulting Services Inc.
11130 NE 33rd Place, Suite 200
Bellevue, WA. 98004

Michael T. Muller C.O.O.

Paul Fairbairn

Digitally signed by Michael T. Muller
DN: cn=Michael T. Muller, o=Saybr Contractors, Inc, ou, email=mmuller@saybr.com, c=US
Date: 2014.11.07 08:53:56 -08'00'

Signed: _____

Date: _____

REGIONAL DISPOSAL COMPANY INTERMODA
 PO BOX 51057
 LOS ANGELES, CA 90074-1057
 (206) 332-7731

INVOICE

TO:

Saybr Construcion Inc
 3852 S 66th Street
 Tacoma, WA 98409

2141104
17010 M
W M
DEC 17 2013
SALES INC

INVOICE NO. 0000048006
 PAGE 1
 DATE Oct-15-14
 CUSTOMER NO. LW-14243
 SITE NO.
 REFERENCE NO.

SERVICE DATE	3579 Div	in Way E., Olympia	DESCRIPTION	REFERENCE	QTY.	AMOUNT
			Balance forward :			\$0.00
			Payments :			\$0.00
			Adjustments :			\$0.00
			Invoices :			██████████
10 - Oct	VH		Vehicle: SOIL SW-CONT SOIL W/FUEL <i>FR1</i>	██████████ 01-914074 ✓	29.70 TN	██████████
11 - Oct	VH		Vehicle: SOIL SW-CONT SOIL W/FUEL <i>SAT</i>	██████████ 01-914087 ✓	26.19 TN	██████████
11 - Oct	VH		Vehicle: SOIL SW-CONT SOIL W/FUEL <i>SAT</i>	██████████ 01-914088 ✓	25.77 TN	██████████
13 - Oct	VH		Vehicle: SOIL SW-CONT SOIL W/FUEL <i>MUN</i>	██████████ 01-914123	28.88 TN	██████████
14 - Oct	VH		Vehicle: SOIL SW-CONT SOIL W/FUEL <i>TUC</i>	██████████ 01-914186 ✓	26.99 TN	██████████
15 - Oct	VH		Vehicle: SOIL SW-CONT SOIL W/FUEL <i>VED</i>	██████████ 01-914213	20.34 TN	██████████

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.
 REMARKS

AMOUNT OF REMITTANCE

PLEASE RETURN THIS PORTION WITH REMITTANCE

REGIONAL DISPOSAL COMPANY INTERMODA
 PO BOX 51057
 LOS ANGELES, CA 90074-1057
 (206) 332-7731

INVOICE

TO:

Saybr Constructon Inc
 3852 S 66th Street
 Tacoma, WA 98409

INVOICE NO. 0000048006
 PAGE 2
 DATE Oct-15-14
 CUSTOMER NO. 13213
 LW-14243
 SITE NO.
 REFERENCE NO.

SERVICE DATE	CODE	DESCRIPTION	REFERENCE	QTY.	AMOUNT
		3821 Martin Way E., Olympia			
<u>Material Summary</u>					
VH		SW-CONT SOIL W/FUEL		157.87 TN	

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.

TOTAL THIS INVOICE

CURRENT	31 - 60 DAYS	61 - 90 DAYS	OVER 90 DAYS
	\$ 0.00	\$ 0.00	\$ 0.00

PLEASE PAY THIS AMOUNT

We reserve the right to suspend service without notice on any past due account.

Please remit to:

INVOICE NO. 0000048006
 PAGE 2
 DATE Oct-15-14
 CUSTOMER NO. 13213
 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

ITE REGIONAL DISPOSAL INTERMODAL 3rd and lander Seattle, WA --
CUSTOMER 013213 Saybr Construcion Inc 352 S 66th Street Tacoma, WA 98409 LW-14243

SITE 01	TICKET # 914186	CELL
WEIGHMASTER Leslie U.		
DATE/TIME IN 10-14-2014 4:50 pm	DATE/TIME OUT 10-14-2014 5:06 pm	
VEHICLE SOIL	CONTAINER	
REFERENCE MAR PAC PINNAPPLE INVOICE		
BILL OF LADING truck		

SCALE IN GROSS WEIGHT 92,560 NET TONS 26.99
 SCALE OUT TARE WEIGHT 38,580 NET WEIGHT 53,980 INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
26.99	TN	SW-CONT SOIL W/FUEL OLYMPIA/THUR				

NET AMOUNT
TENDERED
CHANGE
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (07/12)

SIGNATURE 

ITE REGIONAL DISPOSAL INTERMODAL 3rd and lander Seattle, WA --
CUSTOMER 013213 Saybr Construcion Inc 3852 S 66th Street Tacoma, WA 98409 LW-14243

SITE 01	TICKET # 914213	CELL
WEIGHMASTER IN - Leslie U. OUT - Drinda I.		
DATE/TIME IN 10-15-2014 1:26 pm	DATE/TIME OUT 10-15-2014 1:40 pm	
VEHICLE SOIL	CONTAINER	
REFERENCE MAR PAC PINNAPPLE INVOICE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 82,700 NET TONS 20.34
 SCALE OUT TARE WEIGHT 42,020 NET WEIGHT 40,680 INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
20.34	TN	SW-CONT SOIL W/FUEL OLYMPIA/THUR				

NET AMOUNT
TENDERED
CHANGE
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (07/12)

2/21

SIGNATURE 

ITE REGIONAL DISPOSAL INTERMODAL
 3rd and lander
 Seattle, WA --

CUSTOMER
 013213
 Saybr Construcion Inc
 52 S 66th Street
 Tacoma, WA 98409
 LW-14243

SITE	TICKET #	CELL
01	914074	
WEIGHMASTER		
IN - Leslie U.		OUT - Drinda L.
DATE/TIME IN	DATE/TIME OUT	
10-10-2014 11:44 am	10-10-2014 12:01 pm	
VEHICLE	CONTAINER	
SOIL		
REFERENCE	INVOICE	
MAR PAC BLUE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 98,220 NET TONS 29.70
 SCALE OUT TARE WEIGHT 38,820 NET WEIGHT 59,400 INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
29.70	TN	SW-CONT SOIL W/FUEL OLYMPIA/THUR				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

2/21

SIGNATURE

7.44 C 69

ITE REGIONAL DISPOSAL INTERMODAL
 3rd and lander
 Seattle, WA --

CUSTOMER
 013213
 Saybr Construcion Inc
 3852 S 66th Street
 Tacoma, WA 98409
 LW-14243

SITE	TICKET #	CELL
01	914087	
WEIGHMASTER		
Karyn B.		
DATE/TIME IN	DATE/TIME OUT	
10-11-2014 11:39 am	10-11-2014 11:53 am	
VEHICLE	CONTAINER	
SOIL		
REFERENCE	INVOICE	
MAR VAC		
BILL OF LADING		

SCALE IN GROSS WEIGHT 90,720 NET TONS 26.19
 SCALE OUT TARE WEIGHT 38,340 NET WEIGHT 52,380 INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
26.19	TN	SW-CONT SOIL W/FUEL OLYMPIA/THUR				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

2/21

SIGNATURE

Kevin Dahms

SITE REGIONAL DISPOSAL INTERMODAL
 3rd and lander
 Seattle, WA --

CUSTOMER
 013213
 Saybr Construcion Inc
 3852 S 66th Street
 Tacoma, WA 98409
 LW-14243

SITE 01	TICKET # 914088	CELL
WEIGHMASTER Karyn B.		
DATE/TIME IN 10-11-2014 12:12 pm		DATE/TIME OUT 10-11-2014 12:38 pm
VEHICLE SOIL		CONTAINER
REFERENCE MAR VAC		INVOICE
BILL OF LADING		

SCALE IN GROSS WEIGHT 90,280 NET TONS 25.77
 SCALE OUT TARE WEIGHT 38,740 NET WEIGHT 51,540 INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
25.77	TN	SW-CONT SOIL W/FUEL OLYMPIA/THUR				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE *[Signature]*

SITE REGIONAL DISPOSAL INTERMODAL
 3rd and lander
 Seattle, WA --

CUSTOMER
 013213
 Saybr Construcion Inc
 3852 S 66th Street
 Tacoma, WA 98409
 LW-14243

SITE 01	TICKET # 914123	CELL
WEIGHMASTER IN - Kim L. OUT - JAMIE B.		
DATE/TIME IN 10-13-2014 12:29 pm		DATE/TIME OUT 10-13-2014 12:50 pm
VEHICLE SOIL		CONTAINER
REFERENCE MARVAC		INVOICE
BILL OF LADING		

SCALE IN GROSS WEIGHT 96,860 NET TONS 28.88
 SCALE OUT TARE WEIGHT 39,100 NET WEIGHT 57,760 INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
28.88	TN	SW-CONT SOIL W/FUEL OLYMPIA/THUR				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

2/21

SIGNATURE *[Signature]*

REGIONAL DISPOSAL COMPANY INTERMODA
 PO BOX 51057
 LOS ANGELES, CA 90074-1057
 (206) 332-7731

INVOICE

TO:

2141104 17010
 [Handwritten initials and numbers]

Saybr Construcion Inc
 3852 S 66th Street
 Tacoma, WA 98409

INVOICE NO. 0000048005
 PAGE 1
 DATE Oct-15-14
 13213
 CUSTOMER NO. LW-14143
 SITE NO.
 REFERENCE NO.

SERVICE DATE	4792 E Marginal Wa S., Seattle	DESCRIPTION	REFERENCE	QTY.	AMOUNT
		Balance forward :			[REDACTED]
		Payments :			[REDACTED]
		Adjustments :			\$0.00
		Invoices :			[REDACTED]
11 - Oct	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	SAT [REDACTED] 01-914086	26.58 TN	[REDACTED]
<u>Material Summary</u>					
	VH	SW-CONT SOIL W/FUEL		26.58 TN	

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.

TOTAL THIS INVOICE [REDACTED]

CURRENT [REDACTED]
 31 - 60 DAYS \$ 0.00
 61 - 90 DAYS \$ 0.00
 OVER 90 DAYS \$ 0.00

PLEASE PAY THIS AMOUNT [REDACTED]

We reserve the right to suspend service without notice on any past due account.

INVOICE NO. 0000048005
 PAGE 1
 DATE Oct-15-14
 13213
 CUSTOMER NO.
 SITE NO.
 REFERENCE NO.

Please remit to:
 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

ITE	REGIONAL DISPOSAL INTERMODAL 3rd and lander Seattle, WA --
CUSTOMER	013213 Saybr Construcion Inc 152 S 66th Street Tacoma, WA 98409 LW-14143

SITE	TICKET #	CELL
01	914086	
WEIGHMASTER		
Karyn B.		
DATE/TIME IN		DATE/TIME OUT
10-11-2014 8:19 am		10-11-2014 8:32 am
VEHICLE		CONTAINER
SOIL		
REFERENCE	INVOICE	
MAR VAC		
BILL OF LADING		

SCALE IN	GROSS WEIGHT	92,000	NET TONS	26.58	
SCALE OUT	TARE WEIGHT	38,840	NET WEIGHT	53,160	INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
26.58	TN	SW-CONT SOIL W/FUEL SEATTLE/KING				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS 742UPR (07/12)

2/21

SIGNATURE

Handwritten signature

REGIONAL DISPOSAL COMPANY INTERMODA
 PO BOX 51057
 LOS ANGELES, CA 90074-1057
 (206) 332-7731

INVOICE

TO:

Saybr Constructon Inc
 3852 S 66th Street
 Tacoma, WA 98409

INVOICE NO. 0000048060
 PAGE 1
 DATE Oct-31-14
 CUSTOMER NO. LW-14243
 SITE NO.
 REFERENCE NO.

SERVICE DATE	3852 S 66th Street, Olympia	DESCRIPTION	REFERENCE	QTY.	AMOUNT
		Balance forward :			[REDACTED]
		Payments :			\$0.00
		Adjustments :			\$0.00
		Invoices :			\$0.00
16 - Oct	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	[REDACTED] 01-914240	28.85 TN	[REDACTED]
16 - Oct	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	[REDACTED] 01-914263	22.48 TN	[REDACTED]
<u>Material Summary</u>					
	VH	SW-CONT SOIL W/FUEL		51.33 TN	

RECEIVED
 NOV 05 2014
 SAYBR CONSTRUCTION, INC.

2 141124-17010

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
[REDACTED]	\$ 0.00	\$ 0.00	\$ 0.00

TOTAL THIS INVOICE [REDACTED]

PLEASE PAY THIS AMOUNT [REDACTED]

We reserve the right to suspend service without notice on any past due account.

INVOICE NO. 0000048060
 PAGE 1
 DATE Oct-31-14
 CUSTOMER NO. LW-14243
 SITE NO.
 REFERENCE NO.

Please remit to:
 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: chartja@republicservices.com

ITEM REGIONAL DISPOSAL INTERMODAL
 3rd and lander
 Seattle, WA --

CUSTOMER
 013213
 Saybr Construcion Inc
 52 S 66th Street
 Tacoma, WA 98409
 LW-14243

SITE 01	TICKET # 914263	CELL
WEIGHMASTER IN - Drinda L. OUT - JAMIE B.		
DATE/TIME IN 10-16-2014 2:27 pm		DATE/TIME OUT 10-16-2014 2:43 pm
VEHICLE SOIL		CONTAINER
REFERENCE MAR VAC		INVOICE
BILL OF LADING		

SCALE IN GROSS WEIGHT 87,040 NET TONS 22.48
 SCALE OUT TARE WEIGHT 42,080 NET WEIGHT 44,960 INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
22.48	TN	SW-CONT SOIL W/FUEL OLYMPIA/THUR				

NET AMOUNT

TENDERED

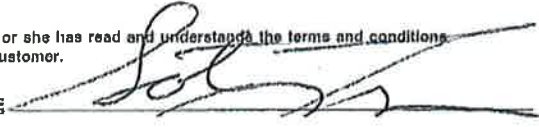
CHANGE

CHECK#

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RS-F042UPR (07/12)

SIGNATURE



ITEM REGIONAL DISPOSAL INTERMODAL
 3rd and lander
 Seattle, WA --

CUSTOMER
 013213
 Saybr Construcion Inc
 3852 S 66th Street
 Tacoma, WA 98409
 LW-14243

SITE 01	TICKET # 914240	CELL
WEIGHMASTER IN - JAMIE B. OUT - Drinda L.		
DATE/TIME IN 10-16-2014 10:50 am		DATE/TIME OUT 10-16-2014 11:08 am
VEHICLE SOIL		CONTAINER
REFERENCE MAR VAC		INVOICE
BILL OF LADING		

SCALE IN GROSS WEIGHT 99,520 NET TONS 28.85
 SCALE OUT TARE WEIGHT 41,820 NET WEIGHT 57,700 INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
28.85	TN	SW-CONT SOIL W/FUEL OLYMPIA/THUR				

NET AMOUNT

TENDERED

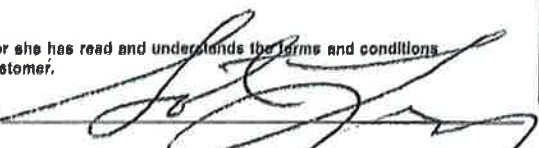
CHANGE

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IS-F042UPR (07/12)

SIGNATURE



TransactionIndex	Transaction #	Truck #	Bill to acct #	Wmid Out	Date In	Date Out	Gross Weight	Gross TN	Tare Weight	Tare TN	Net Weight	Net TN
444045LF10/16/14	444045	8900	8900	KLH	16-Oct-14	16-Oct-14	105020	52.50999832	38200	19.10000038	66820	33.40999985
444036LF10/16/14	444036	8900	8900	KLH	16-Oct-14	16-Oct-14	111320	55.65999985	39500	19.75	71820	35.90999985
444032LF10/16/14	444032	8900	8900	KLH	16-Oct-14	16-Oct-14	105300	52.65000153	41260	20.62999916	64040	32.02000046
444031LF10/16/14	444031	8900	8900	KLH	16-Oct-14	16-Oct-14	98740	49.36999883	38600	19.29999924	60140	30.06999989
444030LF10/16/14	444030	8900	8900	KLH	16-Oct-14	16-Oct-14	93340	46.56999817	38200	19.10000038	55140	27.56999989
443935LF10/14/14	443935	8900	8900	KLH	14-Oct-14	14-Oct-14	100440	50.22000122	38200	19.10000038	62240	31.12000084
443931LF10/14/14	443931	8900	8900	KLH	14-Oct-14	14-Oct-14	100040	50.02000046	41260	20.62999916	58780	29.38999939
443929LF10/14/14	443929	8900	8900	KLH	14-Oct-14	14-Oct-14	96500	48.25	38600	19.29999924	57900	28.95000076
443893LF10/14/14	443893	8900	8900	KLH	14-Oct-14	14-Oct-14	98480	49.24000168	38300	19.14999962	60180	30.09000015
443892LF10/14/14	443892	8900	8900	KLH	14-Oct-14	14-Oct-14	99760	49.88000107	38600	19.29999924	61160	30.57999982
443891LF10/14/14	443891	8900	8900	KLH	14-Oct-14	14-Oct-14	109660	54.83000183	41260	20.62999916	68400	34.20000076
443890LF10/14/14	443890	8900	8900	KLH	14-Oct-14	14-Oct-14	100000	50	38600	19.29999924	61400	30.70000076
443959LF10/15/14	443959	8900	8900	KLH	15-Oct-14	15-Oct-14	108620	53.31000137	39500	19.75	67120	33.56000137
443957LF10/15/14	443957	8900	8900	KLH	15-Oct-14	15-Oct-14	100000	50	38440	19.21999931	61560	30.78000069
443956LF10/15/14	443956	8900	8900	KLH	15-Oct-14	15-Oct-14	104960	52.47999954	38200	19.10000038	66760	33.38000107
443955LF10/15/14	443955	8900	8900	KLH	15-Oct-14	15-Oct-14	102100	51.04999924	41260	20.62999916	60840	30.42000008
443951LF10/15/14	443951	8900	8900	KLH	15-Oct-14	15-Oct-14	95420	47.70999908	38300	19.14999962	57120	28.55999947
443949LF10/15/14	443949	8900	8900	KLH	15-Oct-14	15-Oct-14	102740	51.36999983	38200	19.10000038	64540	32.27000046
443946LF10/15/14	443946	8900	8900	KLH	15-Oct-14	15-Oct-14	103700	51.84999847	41260	20.62999916	62440	31.21999931
443945LF10/15/14	443945	8900	8900	KLH	15-Oct-14	15-Oct-14	98720	49.36000061	38600	19.29999924	60120	30.06999947
443943LF10/15/14	443943	8900	8900	KLH	15-Oct-14	15-Oct-14	101760	50.88000107	39180	19.59000015	62580	31.29000092
443936LF10/14/14	443936	8900	8900	KLH	14-Oct-14	14-Oct-14	96100	48.04999924	38300	19.14999962	57800	28.89999962
444082LF10/17/14	444082	8900	8900	KLH	17-Oct-14	17-Oct-14	101100	50.54999924	38200	19.10000038	62900	31.45000076
444081LF10/17/14	444081	8900	8900	KLH	17-Oct-14	17-Oct-14	98480	49.24000168	38580	19.29000092	59900	29.96000076
444071LF10/17/14	444071	8900	8900	KLH	17-Oct-14	17-Oct-14	94520	47.25999932	39500	19.75	55020	27.51000023
444070LF10/17/14	444070	8900	8900	KLH	17-Oct-14	17-Oct-14	108480	54.24000168	41260	20.62999916	67220	33.61000061
444064LF10/16/14	444064	8900	8900	KLH	16-Oct-14	16-Oct-14	95440	47.72000122	38520	19.26000023	56920	28.45999908
444018LF10/16/14	444018	8900	8900	KLH	16-Oct-14	16-Oct-14	94420	47.20999908	39500	19.75	54920	27.45999908
444016LF10/16/14	444016	8900	8900	KLH	16-Oct-14	16-Oct-14	94380	47.18999863	41260	20.62999916	53120	26.55999947
444009LF10/15/14	444009	8900	8900	KLH	15-Oct-14	15-Oct-14	98960	49.47999954	38200	19.10000038	55360	27.68000031
444006LF10/15/14	444006	8900	8900	KLH	15-Oct-14	15-Oct-14	102180	51.09000015	41260	20.62999916	60920	30.45999908
444004LF10/15/14	444004	8900	8900	KLH	15-Oct-14	15-Oct-14	99000	49.5	38300	19.14999962	60700	30.35000038
444001LF10/15/14	444001	8900	8900	KLH	15-Oct-14	15-Oct-14	91760	44.56999969	39500	19.75	49640	24.81999969
444000LF10/15/14	444000	8900	8900	KLH	15-Oct-14	15-Oct-14	91760	45.88000107	38440	19.21999931	53320	26.65999985
443995LF10/15/14	443995	8900	8900	KLH	15-Oct-14	15-Oct-14	105360	52.68000031	38200	19.10000038	67160	33.58000183
443971LF10/15/14	443971	8900	8900	KLH	15-Oct-14	15-Oct-14	103560	51.77999978	41260	20.62999916	62300	31.14999962
443965LF10/15/14	443965	8900	8900	KLH	15-Oct-14	15-Oct-14	103160	51.58000183	38300	19.14999962	64860	32.43000031

Total Tons

1156.960005

WASTE ACCEPTANCE APPLICATION
CONTAMINATED SOILS, DREDGE SPOILS, AND DEBRIS
(Complete an application for each waste)

Customer: Saybr Contractors Inc
Address: 3852 S 66th St
City/State/Zip: Tacoma WA 98409
Contact name & number: Mickey McAloon
206-730-0957
mmcaloon@saybr.com

Customer Number 8900

Material Number 58

Tip Fee per ton
refuse tax
refuse

General Information for waste disposal:

1. Project Address: 3541 Martin Way E, Olympia, WA 98506
2. Charge Account number
3. Nominal quantity (ton or CY per day) Est. 600 cy
4. Source Type "1" thru "4" (see Acceptance Process) 1
5. Waste current location: As above
6. Waste original location: As above
7. Please give a detail description of activities which occurred on or near soils original location which may have impacted the soils.
UST dispensers leaking
- 8.

Waste Oils and Unknown Oils:

- Analyze waste by NWTPH-Gx & NWTPH-Dx to identify contaminants. Additional testing will be required based on these results.

Gasoline Range Organics (C6 – C12):

- Analyze waste by NWTPH-Gx.
- Analyze waste for BTEX compounds with EPA Method 8021 or 8260.
- If TPH > 5000 ppm, analyze waste for TCLP metals.
- If TPH > 5000 ppm analyze waste by 8260 and 8270.

Diesel Range Organics (C12 – C24):

Approved
J. Lee
10-13-14

- Analyze waste by NWTPH-Dx.
- If TPH>5000 ppm, analyze waste for TCLP metals.
- If TPH>5000 ppm, analyze waste by EPA Method 8260 and 8270.

Heavy Oil Organics (> C24):

- Analyze waste for heavy fuel by NWTPH-Dx.
- Analyze waste for PCB's by EPA Method 8082 when there is a potential the PCB's may be present.
- If TPH>5000 ppm, analyze waste for TCLP metals.
- If TPH>5000 ppm, analyze waste by EPA Method 8260 and 8270.

9. List of possible additional analysis. Selected items depend on potential contaminants, available analytical, and generator knowledge of process and/or history:

- X a. Waste samples were collected in accordance with WAC 173-303-110(2).
- X b. Lab analytical procedures complied with WAC 173-303-110(3).
- c. Waste has been analyzed and is non-corrosive per WAC 173-303-090(6) (a) (iii) [pH].
- d. Waste has been analyzed and is non-toxic per WAC 173-303-090(8) [TCLP analysis for metals].
- e. Waste has been analyzed and is non-toxic per WAC 173-303-090(8) [TCLP analysis for F-list organics].
- f. Waste has been analyzed and is non-toxic per WAC 173-303-090(8) [TCLP analysis for acids/base neutrals].
- g. Waste has been analyzed and is non-toxic per WAC 173-303-090(8) [TCLP analysis for pesticides and herbicides].
- h. Waste has been analyzed and is non-toxic per WAC 173-303-101(5) [Fish bioassay only].
- i. Waste has been analyzed and is non-persistent per WAC 173-303-102 [PAH only].
- j. Waste has been analyzed for PCB's per EPA Method 8082.
- k. Waste has been analyzed for diesel and/or heavy oil range organics per NWTPH-Dx.
- XX l. Waste has been analyzed for gasoline range organics per NWTPH-Gx.
- XX m. Waste has been analyzed for BTEX per EPA Methods 8021 or 8260.
- n. Chain of custody and lab analytical data for required waste analyses is attached.
- o. Other: *Total Lead analysis from soil borings okay.*

L. J. Fuel

10. Customer certifies that:

- a. The waste sampled and intended for disposal under this certification is neither dangerous nor extremely hazardous waste as determined by WAC 173-303.
- b. The waste has no free liquids per WAC 173-303-110(3) (c) (i).
- c. To the best of its knowledge, there have been no alterations to the waste that would affect the accuracy of the analyses performed above.
- d. There have been no material changes in the character of the waste after the analyses were performed which would render those analyses inaccurate.
- e. The samples analyzed are representative of the waste to be tendered to the Cowlitz County Headquarters Landfill for disposal.



Signature of Authorized Agent

10-13-04
Date

Michael Mc Aloon
Printed Name and Title of Authorized Agent

Date: 11/07/14
 Project: 7- Eleven Store #25983
 UST & Fuel System Removal
 Address: 3541 Martin Way East
 Olympia, WA. 98506

Project Change Orders

Change Number	Description/Comments/Calculations	Units	# of Units	Unit Price	Total
CHANGE ORDER 1					
1	Load, transport & dispose PCS >100 tons T&T				
	- Cowlitz County	Ton	1156.96		
	- Regional Disposal	Ton	157.87		
	- Regional Disposal	Ton	26.58		
	- Regional Disposal	Ton	51.33		
	- Total PCS		1392.74	\$ [REDACTED]	\$ [REDACTED]
TOTAL CHANGE ORDER 1					\$ [REDACTED]

CHANGE ORDER 2

2a	Demo oil/water separator - pre priced and approved	LS	1	\$ [REDACTED]	\$ [REDACTED]
2b	Unit Prices U1: Saw cut, break and remove additional paving - actual amount removed 102' x 42' = 4284sf - amount per bld 2500sf - additional paving removed 4284 - 2500 = 1784sf	SF	1784	\$ [REDACTED]	\$ [REDACTED]
2c	Unit Prices U3: Excavation & mgmt of soil from UST field, dispenser islands and subsurface piping in excess of amount estimated in bid item #9 (200cy) - total PCS removed 1392.74tons - conversion from tons to cy = 1.4 tons/cy - 1392.74 tons 1.4 = 994.81cy	CY	994.81	\$ [REDACTED]	\$ [REDACTED]
2d	Unit Prices U4: Soil handling (relocation of stockpiled mtrl) - total excavation area 102' x 42' x 25' = 3966.67cy - less tank displacement = 180cy - less amount included in bid item #9 = 200cy - total soil handling is 3966.67-180-200 = 3586.67 - less PCS above is 3586.67 - 994.81 = 2591.86	CY	2591.86	\$ [REDACTED]	\$ [REDACTED]
2e	Unit Prices U8: Provide, haul and place compacted clean fill in excess of the amount estimated in bid item #11 - PCS removed (see above) = 994.81cy	CY	994.81	\$ [REDACTED]	\$ [REDACTED]
2f	Unit Prices U9: Provide additional concrete or asphalt paving in excess of the amount estimated in bid item #13 - actual paving installed 4284sf - less amount in bid item #13 2500sf - total additional paving 4284sf - 2500sf = 1784sf	SF	1784	\$ [REDACTED]	\$ [REDACTED]
TOTAL CHANGE ORDER 2					\$ [REDACTED]

Date: 11/06/14
 Project: 7- Eleven Store #25983
 UST & Fuel System Removal
 Address: 3541 Martin Way East
 Olympia, WA. 98506

Summary of Change Orders - Revised Contract Value

1	Load, transport & dispose PCS >100 tons T&T	\$ [REDACTED]
	<u>Total Change Order 1</u>	<u>\$ [REDACTED]</u>
2a	Demo oil/water separator	\$ [REDACTED]
2b	Unit Prices U1	\$ [REDACTED]
2c	Unit Prices U3	\$ [REDACTED]
2d	Unit Prices U4	\$ [REDACTED]
2e	Unit Prices U8	\$ [REDACTED]
2f	Unit Prices U9	\$ [REDACTED]
	<u>Total Change Order 2</u>	<u>\$ [REDACTED]</u>

Summary of Contract Value

Original Base Contract Value	\$ [REDACTED]
<u>Change Order 1</u>	<u>\$ [REDACTED]</u>
Subtotal - Revised Contract Value	\$ [REDACTED]
<u>Change Order 2</u>	<u>\$ [REDACTED]</u>
Total Revised Contract Value	\$ [REDACTED]
	plus wsst



3852 S 66th St • Tacoma, WA 98409
Phone (253) 531-2144 • Fax (253) 536-2068

CERTIFICATE OF DISPOSAL

October 8, 2014

Stantec Consulting Services
Attn: Paul Fairbairn
11130 NE 33rd Place, Suite 200
Bellevue, WA. 98004

Facility Site Address: 7-Eleven #25983
3541 Martin Way East
Olympia, WA. 98506

This letter is to certify that Saybr Contractors, Inc. has removed and disposed of the following tanks in accordance with all applicable Federal, State, and Local regulations.

Type of Tank: Three each 12,000 gallon fiberglass UST's

Date Triple Rinsed: 10/7/14 by Marine Vacuum Service Inc.

Date Cleaned & Removed: 10/8/14

Date Disposed: 10/8/14 – tanks were cleaned, crushed and disposed of via a City of Olympia construction debris dumpster.

Please contact me at (253) 531-2144 should you have any questions or concerns regarding this matter.

Sincerely,

SAYBR CONTRACTORS, INC.

Michael T. Muller
C.O.O.

APPENDIX F
COMPACTION TEST REPORTS
UST SYSTEM REMOVAL REPORT
7-ELEVEN STORE NO. 25983

January 6, 2015

Materials Testing & Consulting, Inc.

Geotechnical Engineering & Consulting • Special Inspection • Materials Testing • Environmental Consulting

Engineered Assurance Since 1981



Stantec 7-11 UST Removal Olympia - 14S137-01 - IPD-Soil Compaction: Report #D34768

CLIENT Saybr Contractors, Inc. **DATE** 10/17/2014
PROJECT LOCATION 3541 Martin Way East **PERMIT #** 143029
Olympia WA

Inspection Information:

Inspection Date: 10/17/2014 **Time Onsite:** 01:00 PM **Weather Conditions:** rainy, 60

Inspection Performed: IPD-Soil Compaction

Field Data:

Work / Location: parking lot near monitoring wells 4 and 5. **Gauge Standard MS:** 10337

Equipment ID & Serial #: CPN MC-1, Ser. #MD60108185 **Gauge Standard DS:** 37586

Test Samples:

Sample #: Description: **Proctor Value(pcf): Optimum Moisture and Oversize Rock Correction:**
1. S14-600 Poorly graded Sand with Silt and Gravel 134.1 7.4

TEST METHOD ASTM D-1557 /AASHTO T-180

In Place Density Test Results (ASTM D-6938):

Test #	Mode / Depth	Location of Test	Elev.	Wet Dens.	Dry Dens.	Moist %	Sample #	% Comp.	% Reqd.
1	8	20' left of MW-5	-2.5' bfg	137.7	125.6	9.6	1	93.7	90
2	8	near MW-4	-2.5' bfg	140.9	127.3	10.7	1	94.9	90

- Native Soils Soils consistent with Proctor Yes No
 Imported Fills Soils found to be firm and stable; and to the best of our knowledge, meet compaction Contractor notified of results Yes No

Remarks:

Arrived on site to perform compaction inspection of newly placed subgrade material in the 7-11 parking lot. I met with foreman, Pat. I asked to see site plans, and job specs but was informed that there were none on site. Only a site map was provided. Pat informed me that only 90% compaction was required, but I had no way of verifying that. Compaction was performed, on the approximate 12" lift, with a hoepack, and large vibratory roller prior to my arrival.

I asked Pat and the dump truck driver where the material was from, but no one knew. It was described as native material from a nearby location that was excavated and imported to this site. A client proctor was provided, but a new sample was requested to be taken for a new proctor. Client provided proctor was from 2013, and there was no way of verifying a consistent match. So blind shots were taken. Test results are pending new proctor results.

Images:

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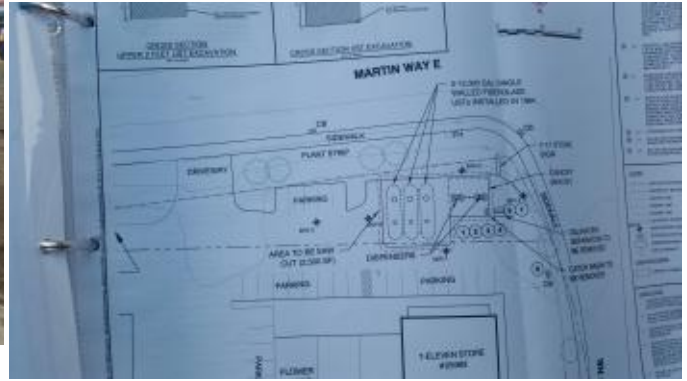
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UPLOADED: 10/17/2014 16:52:00

parking lot
Facing east



UPLOADED: 10/17/2014 16:52:00

site map

REPORTED BY: Luke McCann REVIEWED BY: Deane Ramsdell, Project Manager

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Client: Saybr Contractors, Inc.
Address: 3541 Martin Way E
 Olympia
Attn: Mike Muller

Date: October 17, 2014
Project: Stantec 7-11 UST Removal Olympia
Project #: 14S137-01
Sample #: S14-600

As requested MTC, Inc. has performed the following test(s) on the sample referenced above. The testing was performed in accordance with current applicable AASHTO or ASTM standards as indicated below. The results obtained in our laboratory were as follows below or on the attached pages:

	Test(s) Performed:	Test Results		Test(s) Performed:	Test Results
<input checked="" type="checkbox"/>	Sieve Analysis		<input type="checkbox"/>	Sulfate Soundness	
<input checked="" type="checkbox"/>	Proctor	134.1 @ 7.4%	<input type="checkbox"/>	Unit Weight	
<input type="checkbox"/>	Sand Equivalent		<input type="checkbox"/>	WSDOT Degradation	
<input type="checkbox"/>	Fracture Count		<input type="checkbox"/>		
<input type="checkbox"/>	Moisture Content		<input type="checkbox"/>		
<input type="checkbox"/>	Specific Gravity, Coarse		<input type="checkbox"/>		
<input type="checkbox"/>	Specific Gravity, Fine		<input type="checkbox"/>		
<input type="checkbox"/>	Hydrometer Analysis		<input type="checkbox"/>		
<input type="checkbox"/>	Atterberg Limits		<input type="checkbox"/>		
<input type="checkbox"/>	Asphalt Extraction/Gradation		<input type="checkbox"/>		
<input type="checkbox"/>	Rice Density		<input type="checkbox"/>		

If you have any questions concerning the test results, the procedures used, or if we can be of any further assistance please call on us at the number below.

Respectfully Submitted,
 Samuel Hyatt
 WABO Supervising Laboratory Technician

Materials Testing & Consulting, Inc.

Geotechnical Engineering • Special Inspection • Materials Testing • Environmental Consulting



Sieve Report

Project: Stantec 7-11 UST Removal Olympia Project #: 14S137-01 Client: Saybr Contractors, Inc. Source: Existing Stockpile Sample#: S14-600	Date Received: 17-Oct-14 Sampled By: LM Date Tested: 21-Oct-14 Tested By: CL/FP	ASTM D-2487 Unified Soils Classification System SP-SM, Poorly graded Sand with Silt and Gravel Sample Color: Brown	
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ASTM D-2216, ASTM D-2419, ASTM D-4318, ASTM D-5821

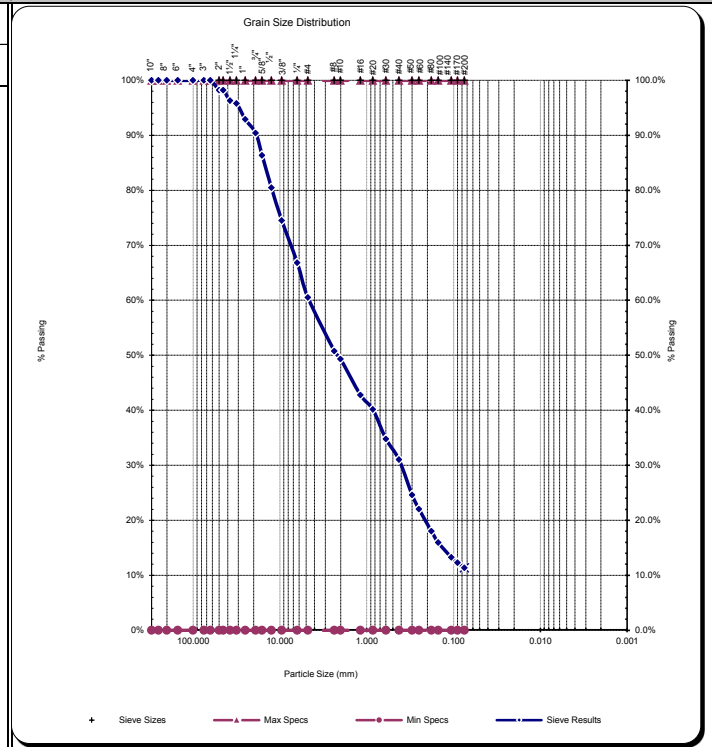
Specifications
No Specs

Sample Meets Specs ? N/A

$D_{(5)}$ = 0.033 mm	% Gravel = 39.5%	Coeff. of Curvature, C_c = 0.54
$D_{(10)}$ = 0.066 mm	% Sand = 49.1%	Coeff. of Uniformity, C_u = 70.07
$D_{(15)}$ = 0.134 mm	% Silt & Clay = 11.4%	Fineness Modulus = 4.07
$D_{(30)}$ = 0.405 mm	Liquid Limit = n/a	Plastic Limit = n/a
$D_{(50)}$ = 2.165 mm	Plasticity Index = n/a	Moisture %, as sampled = 6.4%
$D_{(60)}$ = 4.625 mm	Sand Equivalent = n/a	Req'd Sand Equivalent =
$D_{(90)}$ = 18.695 mm	Fracture %, 1 Face = n/a	Req'd Fracture %, 1 Face =
	Fracture %, 2+ Faces = n/a	Req'd Fracture %, 2+ Faces =

ASTM C-136, ASTM D-6913

Sieve Size		Actual Cumulative Percent Passing	Interpolated Cumulative Percent Passing	Specs Max	Specs Min
US	Metric				
12.00"	300.00		100%	100.0%	0.0%
10.00"	250.00		100%	100.0%	0.0%
8.00"	200.00		100%	100.0%	0.0%
6.00"	150.00		100%	100.0%	0.0%
4.00"	100.00		100%	100.0%	0.0%
3.00"	75.00		100%	100.0%	0.0%
2.50"	63.00	100%	100%	100.0%	0.0%
2.00"	50.00	98%	98%	100.0%	0.0%
1.75"	45.00	98%	98%	100.0%	0.0%
1.50"	37.50	96%	96%	100.0%	0.0%
1.25"	31.50	96%	96%	100.0%	0.0%
1.00"	25.00	93%	93%	100.0%	0.0%
3/4"	19.00	90%	90%	100.0%	0.0%
5/8"	16.00	86%	86%	100.0%	0.0%
1/2"	12.50	80%	80%	100.0%	0.0%
3/8"	9.50	75%	75%	100.0%	0.0%
1/4"	6.30	67%	67%	100.0%	0.0%
#4	4.75	61%	61%	100.0%	0.0%
#8	2.36		51%	100.0%	0.0%
#10	2.00	49%	49%	100.0%	0.0%
#16	1.18		43%	100.0%	0.0%
#20	0.850	40%	40%	100.0%	0.0%
#30	0.600		35%	100.0%	0.0%
#40	0.425	31%	31%	100.0%	0.0%
#50	0.300		25%	100.0%	0.0%
#60	0.250	22%	22%	100.0%	0.0%
#80	0.180	18%	18%	100.0%	0.0%
#100	0.150	16%	16%	100.0%	0.0%
#140	0.106		13%	100.0%	0.0%
#170	0.090		12%	100.0%	0.0%
#200	0.075	11.4%	11.4%	100.0%	0.0%



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Comments:


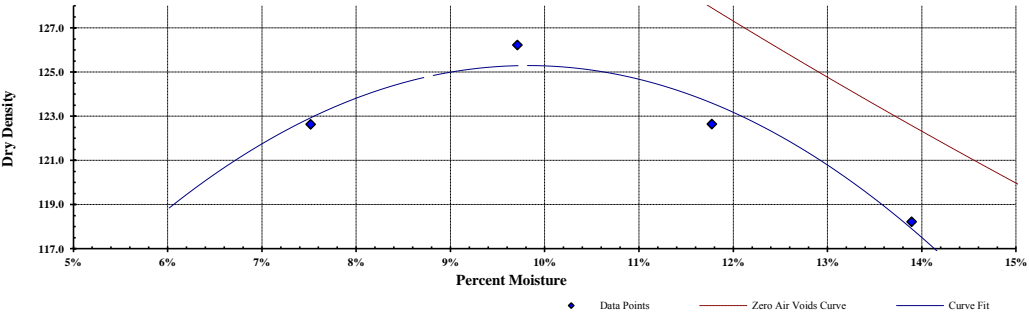
Reviewed by: 

Materials Testing & Consulting, Inc.

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Proctor Report

Project: Olympia Project #: 14S137-01 Client: Saybr Contractors, Inc. Source: Existing Stockpile Sample#: S14-600		Date Received: 17-Oct-14 Sampled By: LM Date Tested: 21-Oct-14 Tested By: CL/FP		Unified Soils Classification System, ASTM D-2487 SP-SM, Poorly graded Sand with Silt and Gravel Sample Color: Brown		ASTM C-136																																																																																																																																																																			
Sample Prepared: Moist: X Dry: _____ Test Standard: ASTM D698: ASTM D 1557: X		Manual: Mechanical: X AASHTO T 99: AASHTO T 180:		Method B		<table border="1"> <thead> <tr> <th>Sieve US</th> <th>Size mm</th> <th>Percent Passing</th> <th>Max</th> <th>Min</th> </tr> </thead> <tbody> <tr><td>12.00"</td><td>300.00</td><td>100.0 %</td><td>0.0 %</td><td></td></tr> <tr><td>10.00"</td><td>250.00</td><td>100.0 %</td><td>0.0 %</td><td></td></tr> <tr><td>8.00"</td><td>200.00</td><td>100.0 %</td><td>0.0 %</td><td></td></tr> <tr><td>6.00"</td><td>150.00</td><td>100.0 %</td><td>0.0 %</td><td></td></tr> <tr><td>4.00"</td><td>100.00</td><td>100.0 %</td><td>0.0 %</td><td></td></tr> <tr><td>3.00"</td><td>75.00</td><td>100.0 %</td><td>0.0 %</td><td></td></tr> <tr><td>2.50"</td><td>63.00</td><td>100 %</td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>2.00"</td><td>50.00</td><td>98 %</td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>1.75"</td><td>45.00</td><td>98 %</td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>1.50"</td><td>37.50</td><td>96 %</td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>1.25"</td><td>31.50</td><td>96 %</td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>1.00"</td><td>25.00</td><td>93 %</td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>3/4"</td><td>19.00</td><td>90 %</td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>5/8"</td><td>16.00</td><td>86 %</td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>1/2"</td><td>12.50</td><td>80 %</td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>3/8"</td><td>9.50</td><td>75 %</td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>1/4"</td><td>6.30</td><td>67 %</td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>#4</td><td>4.75</td><td>61 %</td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>#8</td><td>2.36</td><td></td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>#10</td><td>2.00</td><td>49 %</td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>#16</td><td>1.18</td><td></td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>#20</td><td>0.850</td><td>40 %</td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>#30</td><td>0.600</td><td></td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>#40</td><td>0.425</td><td>31 %</td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>#50</td><td>0.300</td><td></td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>#60</td><td>0.250</td><td>22 %</td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>#80</td><td>0.180</td><td>18 %</td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>#100</td><td>0.150</td><td>16 %</td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>#140</td><td>0.106</td><td></td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>#170</td><td>0.090</td><td></td><td>100.0 %</td><td>0.0 %</td></tr> <tr><td>#200</td><td>0.075</td><td>11.4 %</td><td>100.0 %</td><td>0.0 %</td></tr> </tbody> </table>				Sieve US	Size mm	Percent Passing	Max	Min	12.00"	300.00	100.0 %	0.0 %		10.00"	250.00	100.0 %	0.0 %		8.00"	200.00	100.0 %	0.0 %		6.00"	150.00	100.0 %	0.0 %		4.00"	100.00	100.0 %	0.0 %		3.00"	75.00	100.0 %	0.0 %		2.50"	63.00	100 %	100.0 %	0.0 %	2.00"	50.00	98 %	100.0 %	0.0 %	1.75"	45.00	98 %	100.0 %	0.0 %	1.50"	37.50	96 %	100.0 %	0.0 %	1.25"	31.50	96 %	100.0 %	0.0 %	1.00"	25.00	93 %	100.0 %	0.0 %	3/4"	19.00	90 %	100.0 %	0.0 %	5/8"	16.00	86 %	100.0 %	0.0 %	1/2"	12.50	80 %	100.0 %	0.0 %	3/8"	9.50	75 %	100.0 %	0.0 %	1/4"	6.30	67 %	100.0 %	0.0 %	#4	4.75	61 %	100.0 %	0.0 %	#8	2.36		100.0 %	0.0 %	#10	2.00	49 %	100.0 %	0.0 %	#16	1.18		100.0 %	0.0 %	#20	0.850	40 %	100.0 %	0.0 %	#30	0.600		100.0 %	0.0 %	#40	0.425	31 %	100.0 %	0.0 %	#50	0.300		100.0 %	0.0 %	#60	0.250	22 %	100.0 %	0.0 %	#80	0.180	18 %	100.0 %	0.0 %	#100	0.150	16 %	100.0 %	0.0 %	#140	0.106		100.0 %	0.0 %	#170	0.090		100.0 %	0.0 %	#200	0.075	11.4 %	100.0 %	0.0 %
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#200	0.075	11.4 %	100.0 %	0.0 %																																																																																																																																																																					
Assumed Sp. Gr. 2.70 		Point Number 1 2 3 4		Percent Moisture 7.5 % 9.7 % 11.8 % 13.9 %		Dry Density 122.6 126.2 122.6 118.2		Uncorrected Proctor Value Max. Dry Density 125.3 lbs/ft ³ Optimum Moisture 9.8 % Value w/ Oversize Correction Applied Max. Dry Density 134.1 lbs/ft ³ Optimum Moisture 7.4 %																																																																																																																																																																	
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Comments: _____

Reviewed by: _____

Materials Testing & Consulting, Inc.

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Client: Saybr Contractors, Inc.
Address: 3541 Martin Way E
 Olympia
Attn: Mike Muller

Date: October 20, 2014
Project: Stantec 7-11 UST Removal Olympia
Project #: 14S137-01
Sample #: S14-603

As requested MTC, Inc. has performed the following test(s) on the sample referenced above. The testing was performed in accordance with current applicable AASHTO or ASTM standards as indicated below. The results obtained in our laboratory were as follows below or on the attached pages:

	Test(s) Performed:	Test Results		Test(s) Performed:	Test Results
<input checked="" type="checkbox"/>	Sieve Analysis	PASS	<input type="checkbox"/>	Sulfate Soundness	
<input checked="" type="checkbox"/>	Proctor	136.9 @ 7.7%	<input type="checkbox"/>	Unit Weight	
<input checked="" type="checkbox"/>	Sand Equivalent	65	<input type="checkbox"/>	WSDOT Degradation	
<input checked="" type="checkbox"/>	Fracture Count	99.7	<input type="checkbox"/>		
<input type="checkbox"/>	Moisture Content		<input type="checkbox"/>		
<input type="checkbox"/>	Specific Gravity, Coarse		<input type="checkbox"/>		
<input type="checkbox"/>	Specific Gravity, Fine		<input type="checkbox"/>		
<input type="checkbox"/>	Hydrometer Analysis		<input type="checkbox"/>		
<input type="checkbox"/>	Atterberg Limits		<input type="checkbox"/>		
<input type="checkbox"/>	Asphalt Extraction/Gradation		<input type="checkbox"/>		
<input type="checkbox"/>	Rice Density		<input type="checkbox"/>		

If you have any questions concerning the test results, the procedures used, or if we can be of any further assistance please call on us at the number below.

Respectfully Submitted,
 Samuel Hyatt
 WABO Supervising Laboratory Technician

Materials Testing & Consulting, Inc.

Geotechnical Engineering • Special Inspection • Materials Testing • Environmental Consulting



Sieve Report

Project: Stantec 7-11 UST Removal Olympia Project #: 14S137-01 Client: Saybr Contractors, Inc. Source: Holroyd Lacey Sample#: S14-603	Date Received: 20-Oct-14 Sampled By: LM Date Tested: 22-Oct-14 Tested By: CL/FP	ASTM D-2487 Unified Soils Classification System SW-SC, Well-graded Sand with Silty Clay and Gravel Sample Color: Brown	
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ASTM D-2216, ASTM D-2419, ASTM D-4318, ASTM D-5821

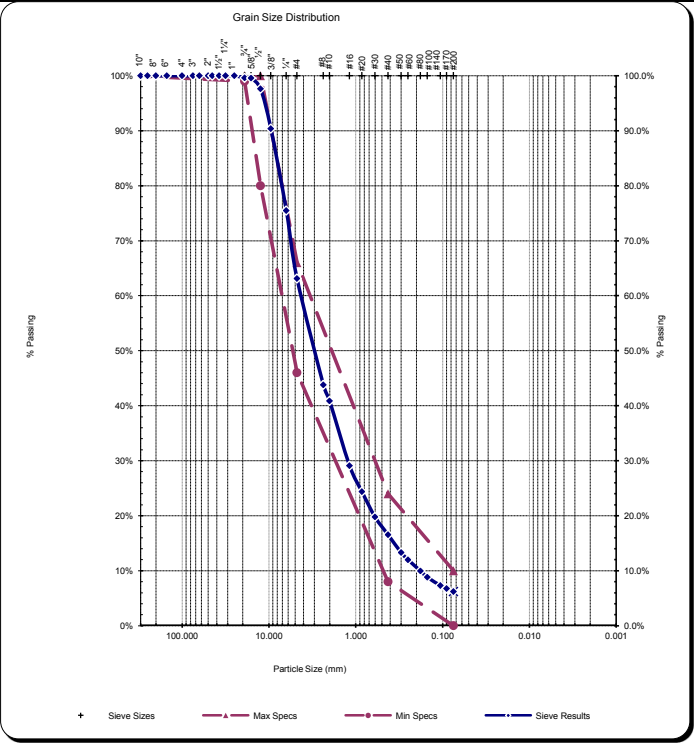
Specifications

2014 WSDOT 9-03.9(3) Crushed Surfacing Top Course
Sample Meets Specs ? Yes

D ₍₅₎ = 0.060 mm	% Gravel = 36.9%	Coeff. of Curvature, C _c = 1.95
D ₍₁₀₎ = 0.181 mm	% Sand = 56.9%	Coeff. of Uniformity, C _u = 24.12
D ₍₁₅₎ = 0.366 mm	% Silt & Clay = 6.2%	Fineness Modulus = 4.32
D ₍₃₀₎ = 1.242 mm	Liquid Limit = n/a	Plastic Limit = n/a
D ₍₅₀₎ = 3.129 mm	Plasticity Index = n/a	Moisture %, as sampled = 2.2%
D ₍₆₀₎ = 4.365 mm	Sand Equivalent = 65	Req'd Sand Equivalent = 40
D ₍₉₀₎ = 9.417 mm	Fracture %, 1 Face = 99.7%	Req'd Fracture %, 1 Face = 75%
	Fracture %, 2+ Faces = 0.0%	Req'd Fracture %, 2+ Faces = n/a

ASTM C-136, ASTM D-6913

Sieve Size		Actual Cumulative Percent Passing	Interpolated Cumulative Percent Passing	Specs Max	Specs Min
US	Metric				
12.00"	300.00		100%		
10.00"	250.00		100%		
8.00"	200.00		100%		
6.00"	150.00		100%		
4.00"	100.00		100%		
3.00"	75.00		100%		
2.50"	63.00		100%		
2.00"	50.00		100%		
1.75"	45.00		100%		
1.50"	37.50		100%		
1.25"	31.50		100%		
1.00"	25.00	100%	100%		
3/4"	19.00	100%	100%	100.0%	99.0%
5/8"	16.00	100%	100%		
1/2"	12.50	98%	98%	100.0%	80.0%
3/8"	9.50	90%	90%		
1/4"	6.30	75%	75%		
#4	4.75	63%	63%	66.0%	46.0%
#8	2.36		44%		
#10	2.00	41%	41%		
#16	1.18		29%		
#20	0.850	24%	24%		
#30	0.600		20%		
#40	0.425	17%	17%	24.0%	8.0%
#50	0.300		13%		
#60	0.250	12%	12%		
#80	0.180	10%	10%		
#100	0.150	9%	9%		
#140	0.106		7%		
#170	0.090		7%		
#200	0.075	6.2%	6.2%	10.0%	0.0%



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Comments: _____


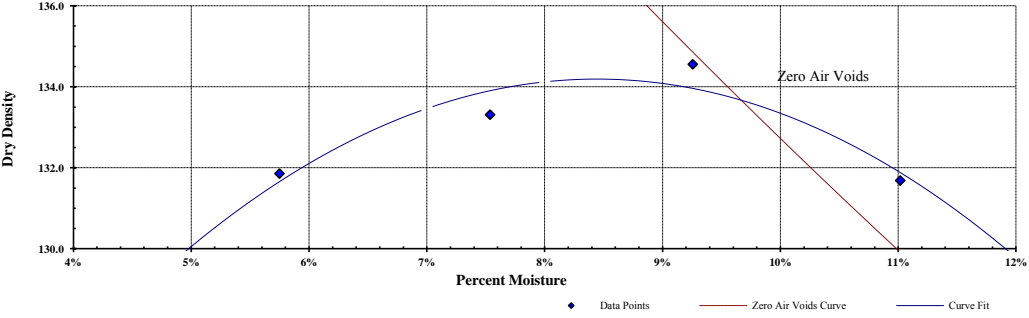
Reviewed by:  _____

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Proctor Report

Stantec 7-11 UST Removal Project: Olympia Project #: 14S137-01 Client: Saybr Contractors, Inc. Source: Holroyd Lacey Sample#: S14-603		Date Received: 20-Oct-14 Sampled By: LM Date Tested: 22-Oct-14 Tested By: CL/FP		Unified Soils Classification System, ASTM D-2487 SW-SC, Well-graded Sand with Silty Clay and Gravel Sample Color Brown		ASTM C-136																																																								
Sample Prepared: Moist: X Dry: _____ Manual: _____ Mechanical: X		Test Standard: ASTM D698: ASTM D 1557: X		AASHTO T 99: _____ AASHTO T 180: _____		Method B		Sieve US		Size mm		Percent Passing		Specifications Max Min																																																
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Comments: _____

Reviewed by: _____

Materials Testing & Consulting, Inc.

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Sand Equivalent Report

Project: Stantec 7-11 UST Removal Olympia	Date Received: 20-Oct-14	ASTM D 2487 Soils Classification
Project #: 14S137-01	Sampled By: LM	SW-SC, Well-graded Sand with Silty Clay and Gravel
Client : Saybr Contractors, Inc.	Date Tested: 22-Oct-14	Sample Color
Source: Holroyd Lacey	Tested By: CL/FP	Brown
Sample#: S14-603		

Sand Equivalent - ASTM D-2419, AASHTO T-176

Temperature of Solution: 72



$$\text{Sand Equivalent} = (\text{Sand Reading} / \text{Clay Reading}) \times 100$$

	#1	#2	#3
Clay Reading:	<u>5.2</u>	<u>4.8</u>	<u>n/a</u>
Sand Reading:	<u>3.3</u>	<u>3.1</u>	<u></u>
Time:	20 mins	20 mins	20 mins
Sand Equivalent:	<u>64</u>	<u>65</u>	<u>n/a</u>
Average Sand Equivalent:		<u>64.5</u>	
Adjusted Sand Equivalent:		<u>65</u>	
Required Sand Equivalent:		<u>40</u>	

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Comments: _____

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Percentage of Fractured Particles in Coarse Aggregate - ASTM D-5821 & AASHTO T-335

Project: Stantec 7-11 UST Removal Olympia
Project #: 14S137-01
Client: Saybr Contractors, Inc.
Source: Holroyd Lacey
Sample#: S14-603

Date Received: 20-Oct-14
Sampled By: LM
Date Tested: 22-Oct-14
Tested By: CL/FP

Sieve Size	1 - Fractured Face Mass	2 or more Fractured Face Mass	Total Sample Mass	% Fracture, 1 Face	% Fracture, 2+ Faces
1" to #4	2195.6		2202.1	99.7%	0.0%
				#DIV/0!	#DIV/0!
				#DIV/0!	#DIV/0!
				#DIV/0!	#DIV/0!
				#DIV/0!	#DIV/0!
				#DIV/0!	#DIV/0!
				#DIV/0!	#DIV/0!

Combined Fracture, 1 Face: 99.7% Required Fracture, 1 Face: 75%
 Combined Fracture, 2+ Faces: 0.0% Required Fracture, 2+ Faces: n/a

Comments: _____

Reviewed by: 

Corporate ~ 777 Chrysler Drive • Burlington, WA 98233 • Phone (360) 755-1990 • Fax (360) 755-1980
NW Region ~ 805 Dupont Street, Suite 5 • Bellingham, WA 98225 • Phone (360) 647-6061 • Fax (360) 647-8111
SW Region ~ 2118 Black Lake Blvd. • Olympia, WA 98512 • Phone (360) 534-9777 • Fax (360) 534-9779
Kitsap Region ~ 5451 NW Newberry Hill Road, Suite 101 • Silverdale, WA 98383 • Phone (360) 698-6787 • Fax (360) 692-1919
 Visit our website: www.mtc-inc.net

**APPENDIX G
PHOTOGRAPHIC LOG
UST SYSTEM REMOVAL REPORT
7-ELEVEN STORE NO. 25983**

January 6, 2015

STANTEC CONSULTING SERVICES INC.
PHOTOGRAPHIC RECORD

Client: 7-Eleven, Inc.

Job Number: 185750263

Site Name: 7-Eleven, Inc. Store No. 25983

Photographer: Emily Harper

PHOTO No. 1



View of gasoline canopy prior to commencement of work.

PHOTO No. 2



Removal of gasoline canopy.

**STANTEC CONSULTING SERVICES INC.
PHOTOGRAPHIC RECORD**

Client: 7-Eleven, Inc.

Job Number: 185750263

Site Name: 7-Eleven, Inc. Store No. 25983

Photographer: Emily Harper

PHOTO No. 3



Removal of first 12,000-gallon single-wall fiberglass UST.

PHOTO No. 4



Removal of pieces of second 12,000-gallon single-wall fiberglass UST for disposal.

**STANTEC CONSULTING SERVICES INC.
PHOTOGRAPHIC RECORD**

Client: 7-Eleven, Inc.

Job Number: 185750263

Site Name: 7-Eleven, Inc. Store No. 25983

Photographer: Emily Harper

PHOTO No. 5



Removal of third 12,000-gallon single-wall fiberglass UST for disposal.

PHOTO No. 6



View of over excavation of dispenser area.

STANTEC CONSULTING SERVICES INC.
PHOTOGRAPHIC RECORD

Client: 7-Eleven, Inc.

Job Number: 185750263

Site Name: 7-Eleven, Inc. Store No. 25983

Photographer: Emily Harper

PHOTO No. 7



View of backfilling operation.

PHOTO No. 8



View of site at end of asphalt paving.