#620245

Underground Storage Tank Removal, Site Characterization, and Site Cleanup Report 19804 and 19806 Aurora Avenue North Shoreline, Washington

Environmental Report Tracking System (ERTS) #660148

January 12, 2016

Prepared for

City of Shoreline Shoreline, Washington



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1.0 INTRODUCTION

This underground storage tank (UST) removal, site characterization, and site cleanup report has been prepared on behalf of the City of Shoreline (City) for the Gunderson-Aurora Property located at 19804 and 19806 Aurora Avenue North in Shoreline, Washington (subject property). Work at the subject property is associated with the City's Aurora Avenue North widening project that is currently in progress. Figure 1 shows the location of the subject property. Pertinent site features, including the former UST locations, are shown on Figure 2. The UST removal, site characterization, and site cleanup activities were conducted in accordance with the scope of services submitted to the City's engineer for the project, Paul Ferrier of HDR Engineering, Inc. (HDR), on July 28, 2015. Any modifications from the original scope of work were agreed to based on subsequent conversations with HDR.

1.1 Purpose of Report

The UST removal work was conducted on behalf of the City as an independent action consistent with the requirements of the Washington State Department of Ecology (Ecology) Model Toxics Control Act (MTCA) Cleanup Regulation [Chapter 173-340 Washington Administrative Code (WAC)], and the Ecology UST regulations (Chapter 173-360 WAC, including WAC 173-360-385). The purpose of this report is to document activities associated with the removal of six USTs from the subject property, and subsequent site assessment, characterization sampling, and cleanup activities.

1.2 Site Information

The following sections provide information pertaining to the physical, geologic, and hydrogeologic setting of the subject property.

1.2.1 Physical Setting

The subject property is approximately 0.6 acres in size, and is bordered to the west by Aurora Avenue North, to the south by North 198th Street, to the east by residential properties, and to the north by a commercial property. The subject property slopes downward to the east, with the western half of the property about level with Aurora Avenue North and the eastern half of the property approximately 10 feet (ft) lower in elevation than Aurora Avenue North. Four 2,000- to 3,000-gallon gasoline USTs, one 2,800-gallon diesel UST, and one 300-gallon waste oil UST, all of which were not in use by the current property owner, were located in the western portion of the subject property, approximately 50 ft east of Aurora Avenue North. Records documenting the installation, use, or initial decommissioning of the USTs were not available. Prior to the work associated with the Aurora Avenue North widening project, the areas surrounding the USTs were covered with asphalt. The existing buildings were demolished in 2013, prior to the UST removal work. Project work in the western half of the subject property, in addition to the UST removal, has included removal of asphalt and debris from the upper 2 ft of soil.

1.2.2 Geologic and Hydrogeologic Setting

The subject property is located on the east slope of a north-south trending ridge between Puget Sound and the north end of Lake Washington. The geology at the subject property is mapped as glacial till (Minard 1983¹) associated with the Vashon Stade of the Fraser Glaciation. During removal of the USTs, Landau Associates observed up to 10 ft of fill; the native glacial till was not observed. The fill consisted of brown, fine to coarse sand with gravel and occasional debris including brick and concrete chunks. The underlying glacial till material is typically a dense, poorly sorted mixture of clay, sand, gravel, and cobbles with occasional boulders.

Groundwater was not encountered during the UST removals. Based on topography, the general direction of shallow groundwater flow in the area of the subject property is to the east toward Echo Lake, which is located approximately 500 ft east of the subject property. Perched groundwater may also be seasonally present on top of the glacial till; as noted above, groundwater was not observed during the UST removal.

¹ Minard, J.P. 1975. *Geologic Map of the Edmonds East and Part of the Edmonds West Quadrangles, Washington.*Miscellaneous Field Studies Map MF-1541. U.S. Geological Survey.

2.0 UNDERGROUND STORAGE TANK DECOMMISSIONING AND REMOVAL

The following sections of this report describe the UST decommissioning and closure methods used at the subject property.

2.1 Site Reconnaissance

On September 1, 2015, Landau Associates, HDR (for the City), and Gary Merlino Construction (contractor) representatives conducted a reconnaissance of the subject property as part of planning for UST removal. Observed site features associated with the USTs included six concrete patches at the south end of the subject property, where at least three USTs were assumed to be present. Vertical pipes, assumed to be fill pipes, were observed in two of the concrete patches. Several inches of product (i.e., residual of the fuel previously stored in the tanks) and/or water were detected in the USTs beneath the two fill pipes. Evidence of the three additional USTs assumed to be present was not identified. Underground utilities that would prevent or affect the removal of the USTs were not observed. No evidence of a release was observed during the site reconnaissance.

2.2 Underground Storage Tank Information

The approximate locations of the six USTs prior to removal are shown on Figures 2 and 3. The USTs were located during the site reconnaissance (see above), and during asphalt removal and grading work at the site associated with the Aurora Avenue North widening project. The capacity and condition of the six USTs at the time of removal were as follows:

UST ID	Approximate Capacity (gallons)	Contents	Condition
UST-1	2,000	Gasoline	Approximately 1 inch of gasoline and 3 inches of water in the tank; tank was in good condition with no holes and no evidence of staining in surrounding soil.
UST-2	2,800	Diesel	Approximately ¼ inch of brown petroleum-like liquid and 1 inch of water in the tank; several small holes in bottom of tank and minimal brown staining on soil near holes below tank.
UST-3	2,800	Gasoline	Approximately 1 inch of water in the tank; tank was in good condition with no holes and no evidence of staining in surrounding soil.
UST-4	2,800	Gasoline	Tank filled with controlled density fill (CDF)-like material; tank was in good condition with no holes and no evidence of staining in surrounding soil.
UST-5	3,000	Gasoline	Approximately 8 inches of water in the tank (likely less, this was an estimate made after rinsing); tank was in good condition with no holes and no evidence of staining in surrounding soil
UST-6	300	Waste Oil	Approximately 2 inches of product in tank; corrosion observed at seams on the ends of tank, some dark staining of soil beneath the tank.

2.3 Notifications

Prior to removing the six USTs from the subject property, the contractor submitted a 30-Day Notice of Intent to Decommission USTs to Ecology, as required by WAC 173-360-385. A copy of this notice is provided in Appendix A.

2.4 Underground Storage Tank Closure and Removal

The City's contractor, Gary-Merlino Construction Co. (Merlino), contracted with Diane's Tank Removal Services LLC (DTR) for the UST decommissioning, which included cleaning, rendering inert, and removing the USTs, removing the underground piping, and excavating and disposing of petroleum-contaminated soil (PCS), as necessary. Merlino assisted with excavation and removal of PCS, as needed.

The tank decommissioning was conducted sequentially as site demolition and grading progressed at the subject property. Landau Associates field staff, certified as UST Site Assessors, were on site during all UST decommissioning, UST removal, and follow-up excavation of PCS. UST-1, UST-2, and UST-3 were decommissioned by removal on September 28, 2015. Follow-up soil excavation and confirmation sampling associated with these USTs continued until September 30, 2015. UST-4 and UST-5 were decommissioned by removal on October 7, 2015. UST-6 was decommissioned by removal on October 16, 2015, and follow-up soil excavation and confirmation sampling continued until October 23, 2015. Piping associated with the USTs was observed and removed during the decommissioning of UST-1, -2, and -3; no additional UST piping was observed at the subject property during UST decommissioning or site demolition or grading work. No fuel dispensers were present at the subject property. Prior to removal, all of the tanks were emptied, rendered inert, cleaned, and inspected by DTR personnel. All removed materials, including the USTs, piping, and soil, were placed on plastic sheeting to prevent any residual fuel from coming into contact with the ground surface. The USTs were removed, inspected, and placed on asphalt or plastic sheeting. The tanks were removed from the subject property on the same day they were excavated. Liquids from the tanks, including residual product and water, were removed from the subject property and disposed of by DTR. Decommissioning certificates, provides by DTR, are included in Appendix B.

Field screening indicated the likely presence of PCS around the tanks during the decommissioning of UST-1, -2, -3, and -6. Characterization and confirmation sampling, discussed below, confirmed the presence of PCS and guided the follow-up cleanup/removal of the PCS.

Ecology UST Program representative Anette Ademasu visited the subject property on October 7, 2015. Ms. Ademasu observed the removal of UST-4 and UST-5, and the associated confirmation sampling. A formal notice of a release associated with UST-1, UST-2, UST-3, and UST-6 was sent by Landau Associates to Ecology on October 19, 2015. The assigned facility ID for the site is #4848, and the environmental report tracking system (ERTS) number is #660148. Follow-up conversations with Ms. Ademasu and Ecology representative Gayle Garbush indicated a site assessment, characterization, and

cleanup report submitted to Ecology within 90 days of the formal notice of release would satisfy the applicable Ecology reporting requirements and keep the subject property from being added to the Ecology Hazardous Sites List.

3.0 CHARACTERIZATION SAMPLING, SOIL CLEANUP, AND CONFIRMATION SOIL SAMPLING

The following sections describe the procedures used for characterization and confirmation sampling soil cleanup, and backfilling in the areas where the USTs were removed.

3.1 Applicable Soil Cleanup Levels

To allow for unrestricted future land use, the MTCA Method A soil cleanup levels (cleanup levels) for unrestricted land uses were used to evaluate the analytical data generated during the UST removal activities. Groundwater was not encountered during the excavation activities; therefore, a discussion of groundwater sampling and associated cleanup levels is not warranted.

3.2 UST-1, UST-2, and UST-3 Characterization Sampling, Soil Cleanup, Confirmation Sampling, and Analytical Results

The following section describes the characterization sampling, soil cleanup, confirmation sampling, and analytical results associated with the decommissioning and removal of UST-1 (gasoline), UST-2 (diesel), and UST-3 (gasoline).

3.2.1 Field Screening and Characterization Sampling

Because UST-1, UST-2, and UST-3 were located next to each other, only one excavation was needed to remove the three USTs. Soil excavated during the UST removal activities was observed by Landau Associates for physical signs of contamination and monitored for the presence of volatile organic compounds (VOCs) with a photoionization detector (PID). A PID reading of 20 parts per million (ppm) was established as the threshold to identify the excavated soil as likely PCS.

Field screening during excavation found evidence of PCS associated with the USTs in the upper 4 ft of overburden soil above the USTs. A characterization sample (S1) was collected by Landau Associates to verify the field-screening observations. Based on the former contents of the tanks in this area, which included gasoline and diesel, this characterization sample was submitted to ALS Laboratory (ALS) in Everett, Washington and analyzed for TPH-G by Method NWTPH-Gx, and TPH-D and TPH-O by Method NWTPH-Dx. Analytical results for this sample indicated TPH-G concentrations in soil greater than the cleanup levels. Analytical results for characterization sample S1 are summarized in Table 1 and on Figure 4.

3.2.2 Soil Cleanup and Confirmation Sampling

Based on the analytical results for the characterization sample, a cleanup of PCS in the UST-1, -2, and -3 excavation area was completed by soil removal. The excavation for the removal of the USTs and the surrounding soil resulted in an excavation approximately 18 ft by 30 ft, and approximately 10 ft deep. Excavated soil from above and around the three USTs was loaded directly onto trucks and removed as PCS for offsite disposal.

After the removal of the three USTs and associated excavation and removal of PCS, confirmation soil samples were collected by Landau Associates to document soil quality at the limits of the excavation, to evaluate the extent, if any, of remaining PCS, and to identify if areas existed where additional excavation would be required to remove soil with contaminant concentrations greater than the cleanup levels. Confirmation soil samples were collected directly from the sidewalls and base of the excavation, or from the center of the excavator bucket when access to the excavation was not permitted because of safety concerns. Additional confirmation samples were collected from below the UST system piping that was removed from west of the northwest corner of the excavation. Confirmation samples for VOC analysis [TPH-G and benzene, toluene, ethylbenzene, and xylenes (BTEX)] were collected using US Environmental Protection Agency (EPA) Method 5035A soil sampling procedures.

Six sidewall (SW-1, SW-2, SW-3, SW-4, SW-5, and SW-6), three base (BS-1, BS-2, and BS-3; one beneath each UST), and one piping (P-1) confirmation soil samples were collected from the excavation area following tank and piping removal. No PCS was observed or identified based on field screening beneath or around any of the removed USTs.

The extent of the excavation associated with removal of the diesel and gasoline USTs and the characterization and confirmation sample locations are shown on Figure 4.

3.2.3 Confirmation Sample Analysis and Results

Confirmation soil samples were collected by Landau Associates and analyzed by ALS. The samples were selectively analyzed for TPH-D and TPH-O using Method NWTPH-Dx, TPH-G by Method NWTPH-G, BTEX by Method 8021, and total lead by Method SW6020. The confirmation soil analytical results are summarized in Table 1 and on Figure 4. A copy of the laboratory data report is provided in Appendix C. The approximate locations of where the confirmation samples were collected are shown on Figure 4.

The analytical results for all of the confirmation samples indicated TPH-D, TPH-O, TPH-G, BTEX, and total lead concentrations less than their respective MTCA Method A soil cleanup levels.

3.3 UST-4 and UST-5 Confirmation Sampling and Analytical Results

The following section describes characterization sampling, soil cleanup, confirmation sampling, and analytical results associated with the decommissioning and removal of UST-4 (gasoline) and UST-5 (gasoline).

3.3.1 Field Screening and Confirmation Sampling

Because UST-4 and UST-5 were located next to each other, only one excavation was needed to remove the two USTs. The excavation for removal of the USTs and surrounding soil resulted in an excavation approximately 18 ft by 22 ft, and approximately 10 ft deep. Soil excavated during the UST

removal activities was observed by Landau Associates for physical signs of contamination and monitored for the presence of VOCs with a PID. A PID reading of 20 ppm was established as the threshold to identify the excavated soil as likely PCS. Excavated soil with field-screening results greater than 20 ppm or visual indications of contamination was segregated as "impacted" soil and temporarily stockpiled on the subject property. Soil with no indications of being impacted by the UST system would be temporarily stockpiled on the subject property as "non-impacted" soil for possible future use as "clean" backfill.

Field screening during excavation found no evidence of PCS associated with UST-4 and UST-5. Therefore, excavated soil from above and around the two USTs was stockpiled in a "non-impacted" stockpile to potentially be used as backfill after receipt of the stockpile confirmation sample results, discussed below.

After the removal of the two USTs, confirmation soil samples were collected by Landau Associates to document soil quality at the limits of the excavation, to evaluate the extent, if any, of PCS, and to identify if areas existed where additional excavation would be required to remove soil with contaminant concentrations greater than the cleanup levels. Confirmation soil samples were collected directly from the sidewalls and base of the excavation, or from the center of the excavator bucket when access to the excavation was not permitted because of safety concerns. Confirmation samples for VOC analysis (TPH-G and BTEX) were collected using EPA Method 5035A soil sampling procedures.

Two sidewall (SW-7 and SW-8), two base (BS-4 and BS-5; one beneath each UST), and three stockpile (SP-1, SP-2, and SP-3) confirmation soil samples were collected from the excavation following tank and soil removal. No PCS was observed or identified based on field screening beneath or around either of the removed USTs.

The extent of the excavation associated with removal of the USTs and confirmation sample locations are shown on Figure 5.

3.3.2 Confirmation Sample Analysis and Results

Confirmation soil samples were collected by Landau Associates and analyzed by ALS. The samples were selectively analyzed for TPH-D and TPH-O using Method NWTPH-Dx, TPH-G by Method NWTPH-G, BTEX by Method 8021 and total lead by Method SW6020. The confirmation soil analytical results are summarized in Table 1 and on Figure 5. A copy of the laboratory data report is provided in Appendix C. The approximate locations of where the confirmation samples were collected are shown on Figure 5.

The analytical results for all of the confirmation samples, including the stockpile samples, indicated TPH-D, TPH-O, TPH-G, BTEX, and total lead concentrations less than their respective MTCA Method A soil cleanup levels. After the receipt of the analytical data, stockpiled soil was used to backfill the UST-4 and UST-5 excavation.

3.4 UST-6 Characterization Sampling, Soil Cleanup, Confirmation Sampling, and Analytical Results

The following section describes characterization sampling, soil cleanup, confirmation sampling, and analytical results associated with the decommissioning and removal of UST-6 (waste oil).

3.4.1 Field Screening and Characterization Sampling

Soil excavated during the UST removal activities was observed by Landau Associates for physical signs of contamination and monitored for the presence of VOCs with a PID. A PID reading of 20 ppm was established as the threshold to identify the excavated soil as PCS.

Field screening during initial excavation found evidence of PCS associated with UST-6 including dark staining of soil and a heavy oil-like odor in the soil. These indications of PCS were observed below and to the south of the UST; no staining or other evidence of contamination was observed in soils to the west or north, or on the concrete wall to the east. A characterization sample (UST-6) was collected by Landau Associates to verify the field-screening observations. This characterization sample was submitted to ALS for analysis for TPH-G by Method NWTPH-Gx, TPH-D and TPH-O by Method NWTPH-Dx, BTEX by EPA Method 8021, and total lead by Method SW6020. Based on the former use of this tank for storage of waste oil, the sample was also analyzed for VOCs by EPA Methods 8260 and 8260-SIM, carcinogenic and non-carcinogenic polycyclic aromatic hydrocarbons (cPAHs and PAHs) by EPA Method 8270-SIM, and polychlorinated biphenyls (PCBs) by EPA Method 8082. Analytical results for this sample indicated concentrations of TPH-O, TPH-G, benzene, total xylenes, and total naphthalenes greater than the soil cleanup levels. VOCs and PCBs were not detected at concentrations greater than the laboratory reporting limits. Analytical results for characterization sample UST-6 are summarized in Table 1 and on Figure 6.

3.4.2 Soil Cleanup and Confirmation Sampling

Based on the results of the characterization sample, a cleanup of PCS in the UST-6 excavation area was completed by soil removal. The excavation resulting from the removal of UST-6 and the surrounding PCS was approximately 8 ft by 15 ft, and approximately 9 ft deep. The east sidewall of the excavation was an existing concrete wall that extended from approximately 2 ft below ground surface to the bottom of the excavation. As discussed above, field screening during the excavation found evidence of PCS associated with the UST along the south side of the removed UST-6. Therefore, the cleanup excavation to the south extended to another east-west section of concrete wall. Excavated soil from above and around the UST was loaded directly onto trucks and removed as PCS for offsite disposal.

After the removal of the USTs and PCS, confirmation soil samples were collected by Landau Associates to document soil quality at the limits of the excavation, to evaluate the extent, if any, of remaining PCS, and to identify if areas existed where additional excavation would be required to remove soil with contaminant concentrations greater than the cleanup levels. Confirmation soil samples were

collected directly from the sidewalls and base of the excavation, or from the center of the excavator bucket when access to the excavation was not permitted because of safety concerns. Confirmation samples for VOC analysis (TPH-G and BTEX) were collected using EPA Method 5035A soil sampling procedures.

Three sidewall (SW-9, SW-10, and SW-11) and one base (BS-6) confirmation soil samples were collected from the excavation following tank and soil removal. Soil from the south sidewall sample (SW-9) was collected from the south concrete wall. Field screening of soil at the SW-9 sample location indicated potential contamination but at a lesser degree than previously observed in excavated soils. No PCS was observed or identified based on field screening beneath or at the east, north, or west sidewalls of the removed UST. Based on the analytical results (discussed below), additional excavation in the area of SW-9 was completed to the south before collecting an additional sidewall confirmation sample (SW-12).

3.4.3 Confirmation Sample Analysis and Results

Confirmation soil samples were collected by Landau Associates and analyzed by ALS for TPH-D and TPH-O by Method NWTPH-Dx, TPH-G by Method NWTPH-G, BTEX by Method 8021, total lead by Method SW6020, and cPAHs by Method 8270-SIM. VOCs and PCBs were not detected at concentrations greater than the laboratory reporting limits in characterization sample UST-6; therefore, the confirmation samples were not analyzed for these chemicals. The confirmation soil analytical results are summarized in Table 1 and on Figure 6. A copy of the laboratory data report is provided in Appendix C. The approximate locations of where the confirmation samples were collected are shown on Figure 6.

The analytical results for all of the final confirmation samples (SW-10, SW-11, SW-12, and BS-6) indicated TPH-D, TPH-O, TPH-G, BTEX, total lead, PAH, and cPAH concentrations less than their respective MTCA Method A soil cleanup levels.

3.5 Waste Disposal

As referenced above, the impacted soil excavated from the UST-1, UST-2, and UST-3 excavation area and the UST-6 excavation area was loaded directly onto trucks and removed from the subject property as PCS for offsite disposal at a facility approved by the City. Soil disposal documentation is on file with Merlino, and is available upon request. The former USTs were removed from the subject property for recycling. No additional waste was generated during the UST removal activities. Wastes generated during decommissioning of the tanks, which included removed product, washwater, and removed CDF-like material from UST-4, was all disposed of at an appropriate facility approved by the City.

3.6 Washington State Department of Ecology Closure Notice and Site Assessment Checklist

Copies of the completed Ecology UST Closure and Site Assessment Notice and completed UST Site Assessment Checklist are provided in Appendices D and E, respectively.

4.0 SUMMARY AND CONCLUSIONS

This report documents the decommissioning by removal of six USTs from the subject property consistent with the requirements of WAC 173-360-385. The results of the UST system removal activities included the following:

- Six USTs (four formerly containing gasoline, one formerly containing diesel, and one formerly containing waste oil) were removed from the subject property by Merlino and DTR. Two of the USTs (UST-2 and UST-6) were in poor condition, with corrosion holes and evidence of leakage. Additional field evidence of PCS was observed in the overburden above UST-1, UST-2, and UST-3.
- Based on field-screening observations, characterization soil samples were collected from the
 excavation areas associated with UST-1, UST-2, and UST-3, and with UST-6. These
 characterization samples confirmed releases associated with the USTs and the presence of
 PCS during the UST removal activities.
- Soil cleanup was completed in the UST-1, -2, and -3 and the UST-6 areas by excavation and
 offsite disposal of the PCS.
- No contaminants were detected at concentrations greater than the MTCA Method A soil
 cleanup levels for unrestricted land uses in the final confirmation soil samples collected from
 the limits of the UST-1, UST-2 and UST-3 excavation after soil cleanup, or in the piping sample
 collected from under the UST-associated piping northwest of the excavation area.
- No contaminants were detected at concentrations greater than the MTCA Method A soil
 cleanup levels for unrestricted land uses in the final confirmation soil samples collected from
 the limits of the UST-4 and UST-5 excavation or in the samples collected from the stockpiled
 soil. Therefore, the stockpiled soil was used to backfill the UST-4 and UST-5 excavation.
- Only the initial confirmation sample collected from the south sidewall of the UST-6 area indicated a contaminant concentration (TPH-O) greater than the MTCA Method A soil cleanup level. Additional soil was subsequently excavated from the south side of the UST-6 area, and an additional soil confirmation sample was collected for laboratory analysis. The final soil confirmation sample from the south sidewall of the UST-6 area indicated that the contaminant concentrations at the sidewall of the overexcavated area were less than the MTCA Method A soil cleanup levels.
- The PCS excavated from the UST-1, UST-2, and UST-3 and the UST-6 areas was disposed of at an appropriate offsite disposal facility.

The results of the UST decommissioning/removal activities, which included site characterization, soil cleanup, and collection of confirmation soil samples, did not identify concentrations of fuel constituents greater than the MTCA Method A soil cleanup levels in the final soil confirmation samples collected at the subject property. Therefore, there is no evidence of a potential threat to human health or the environment, and the UST decommissioning and site cleanup are complete. Based on the UST decommissioning and cleanup activities, the City is requesting that Ecology issue a No Further Action determination for the subject property.

5.0 USE OF THIS REPORT

This UST Site Assessment, Characterization, and Cleanup Report has been prepared by Landau Associates for the exclusive use of the City of Shoreline (City) for specific application to the subject property, as that term is defined herein. Services for this project were conducted in accordance with the contract between the City's contractor, HDR Engineering, Inc., and Landau Associates. Landau Associates has performed these services in accordance with generally accepted engineering and consulting standards for environmental work in Washington State at the time these services were performed. The reuse of the information, conclusions, and recommendations set forth herein by the City or others in connection with any site other than the subject property without Landau Associates' written permission shall be at the sole risk of user and without liability to Landau Associates.

This document has been prepared under the supervision and direction of the following key staff.

LANDAU ASSOCIATES, INC.

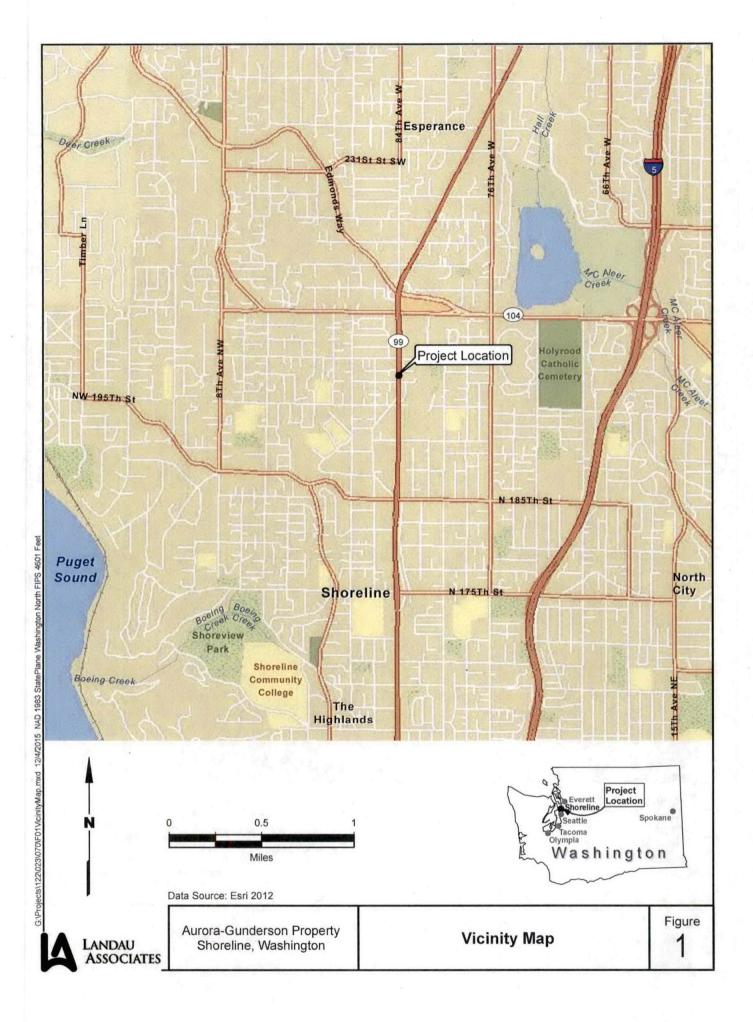
Dylan H. Frazer, LG

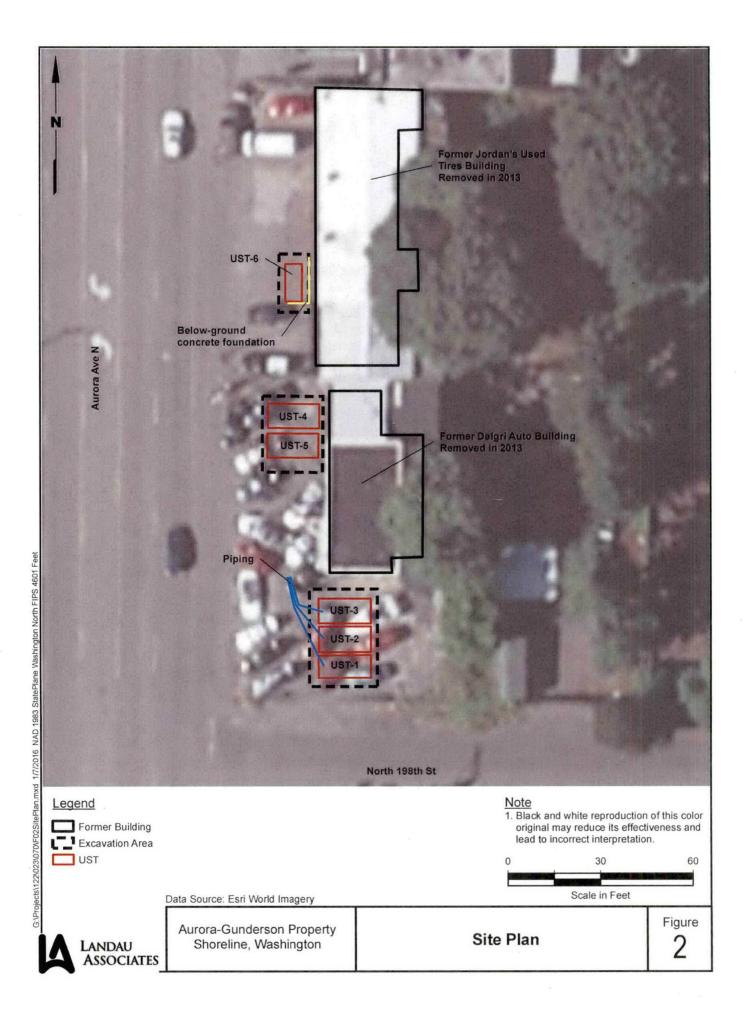
Project Geologist

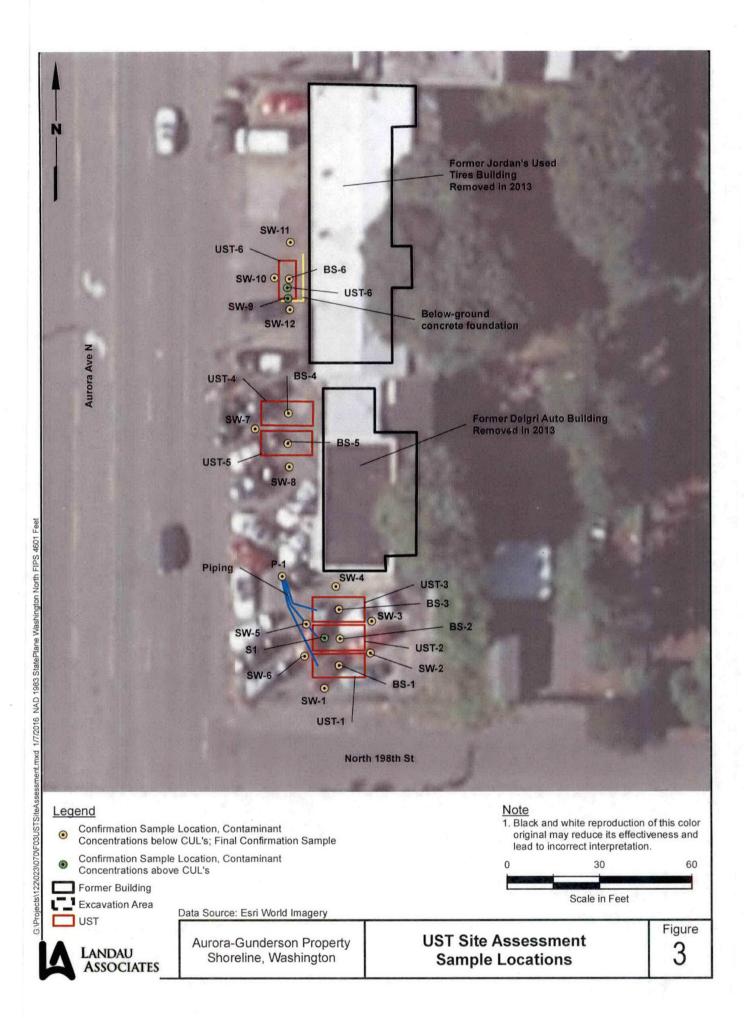
Timothy L. Syverson, LG Senior Associate Geologist

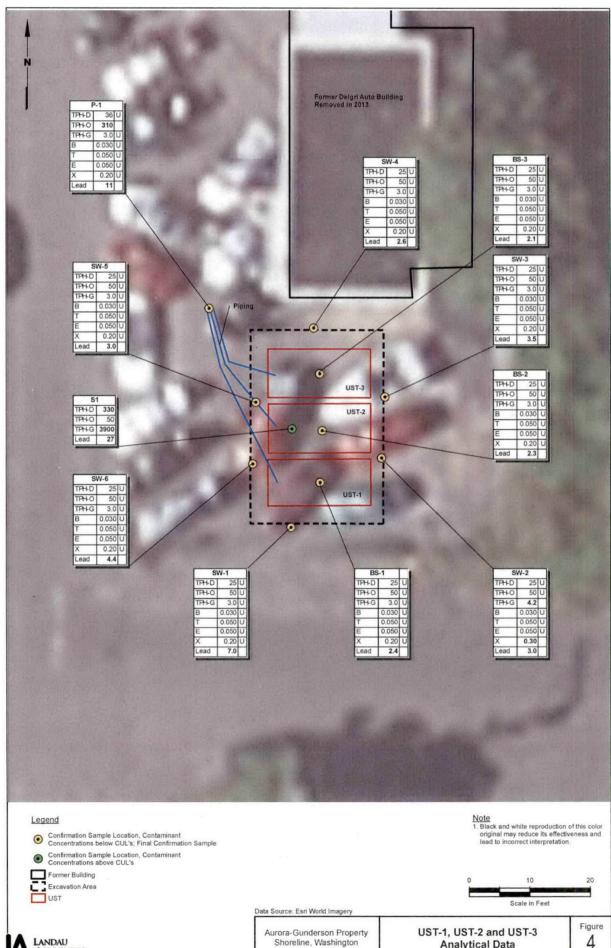
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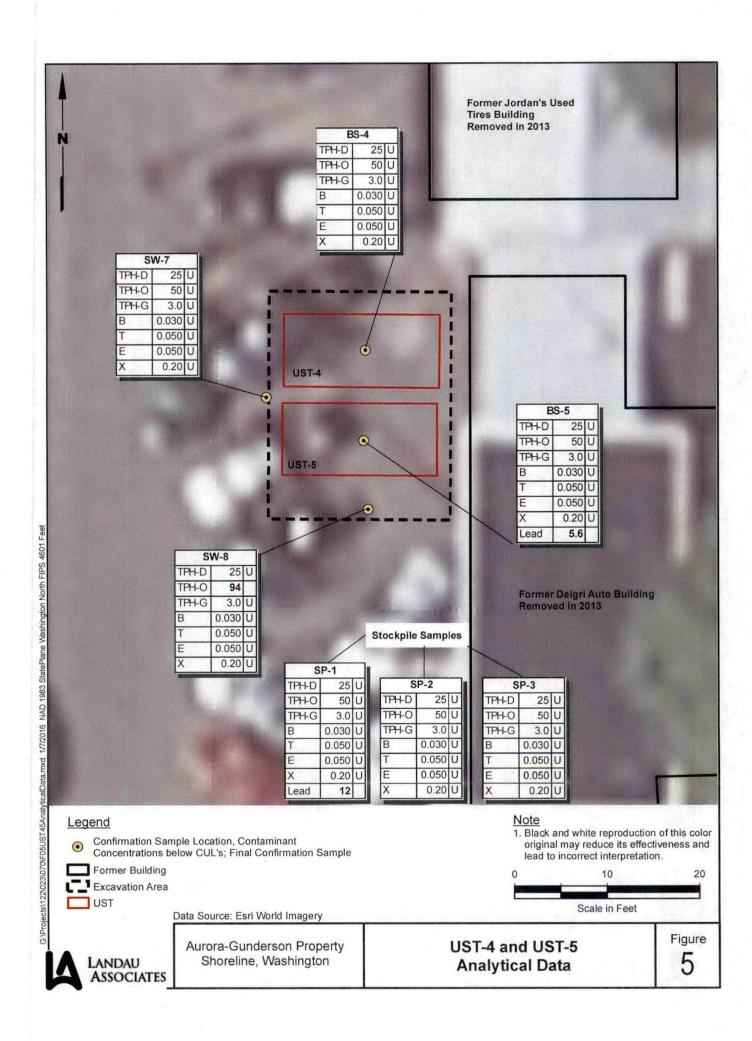




LANDAU ASSOCIATES

Analytical Data

4



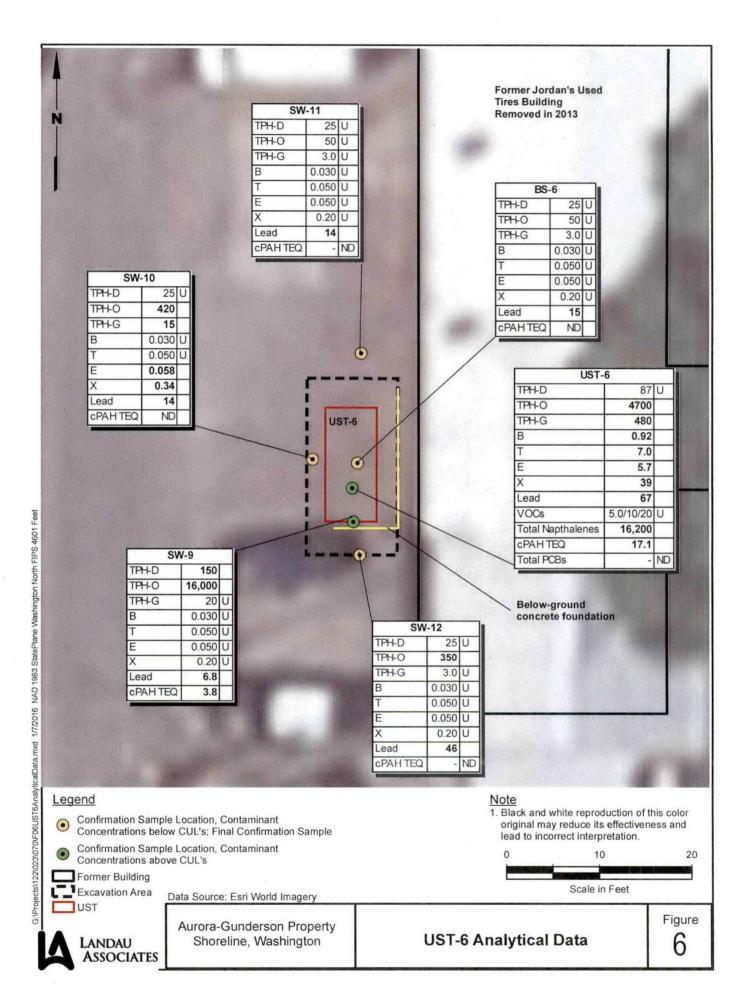


TABLE 1
SOIL ANALYTICAL RESULTS
AURORA-GUNDERSON PROPERTY
SHORELINE, WASHINGTON

MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses	8S-1 EV15090186-01 9/29/2015	BS-2 EV15090191-01 9/30/2015	8S-3 EV15090191-02 9/30/2015	BS-4 EV15100043-01 10/07/2015	BS-5 EV15100043-02 10/07/2015	BS-6 EV15100104-02 10/16/2015	P-1 EV15090186-06 9/29/2015
	7						
2,000	25 U	25 U	25 U				36 U
2,000	· 50 U	50 U	50 U	50 U	50 U	50 U	310
100/30 (a)	3.0 U	3.0 U	. 3.0 U	3.0 U	3.0 U	3.0 U	3.0 ບ
					2		
0.00	0.020.11	0.020 1/	0.020.11	0.030.11	0.030.11	0.030.11	0.030 U
1							0.050 U
							0.050 U
4							0.20 U
	0.20 0	0.20 0	0.20 0				
ł	:						
250	2.4	2.3	2.1	NA	5.6	. 15	11
				•			
	NA NA	NA	NA	NA	NA	NA	NA
	1			NA	NA	NA	NA
30	l.			NA	NA	NA	NA
30	i			NA	NA	NA	NA
					NA	NA	NA
				NA.	NA	NA	NA
				NA	NA	NA	NA
				NA	, NA	NA	NA
					NA	NA	NA
I	NA NA	NA.	NA NA	NA NA	NA	NA	NA
	Method A Soil Cleanup Levels for Unrestricted Land Uses 2,000 2,000 100/30 (a) 0.03 7 6 9 -	Method A Soil Cleanup Levels for Unrestricted Land Uses 2,000 2,000 2,000 2,000 3.0 U 100/30 (a) 3.0 U 0.03 0.030 0.050 U 6 0.050 U 9 250 2.4 NA NA	Method A Soil Cleanup Levels for Unrestricted Land Uses BS-1 EV15090186-01 EV15090191-01 9/30/2015 BS-2 EV15090191-01 9/30/2015 2,000 25 U 2,000 50 U 7 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.20 U 0	Method A Soil Cleanup Levels for Unrestricted Land Uses	Method A Soil Cleanup Levels for Unrestricted Land Uses BS-1 EVI5090186-01 EVI5090191-01 9/30/2015 BS-2 EVI5090191-02 EVI5090191-02 9/30/2015 BS-4 EVI5100043-01 EVI5100043-01 10/07/2015 2,000 2,000 50 U 50 U 50 U 2,000 50 U 2,000 50 U	Method A Soil Cleanup Levels for Unrestricted Land Uses BS-1 EV15090186-01 9/29/2015 BS-2 EV15090191-01 9/30/2015 BS-3 EV15090191-02 9/30/2015 BS-4 EV15090191-02 9/30/2015 BS-4 EV15100043-01 10/07/2015 BS-5 EV15100043-02 10/07/2015 2,000 2,000 25 U 50 U 50 U 50 U 50 U 50 U 50 U 50 U 5	Method A Soil Cleanup Levels for Unretrieted Land Uses S-1 EVISO90186-01 EVISO90191-01 EVISO90191-02 EVISO90191-

TABLE 1
SOIL ANALYTICAL RESULTS
AURORA-GUNDERSON PROPERTY
SHORELINE, WASHINGTON

	MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses	BS-1 EV15090186-01 9/29/2015	BS-2 EV15090191-01 9/30/2015	BS-3 EV15090191-02 9/30/2015	BS-4 EV15100043-01 10/07/2015	BS-5 EV15100043-02 _10/07/2015	BS-6 ' EV15100104-02 10/16/2015	P-1 EV15090186-06 9/29/2015
VOLATILES (µg/kg)	-						•	-
Method EPA-8260			•	•				
Dichlorodifluoromethane		· NA	NA	NA	NA	NA	NA	NA
Chloromethane		NA NA	NA	NA	NA	NA	NA	NA
Bromomethane		NA	NA	NA	NA	NA	NA	NA
Chloroethane		NA NA	NA	NA	NA	NA	NA	NA
richlorofluoromethane		NA	NA	NA	NA	NA	NA	NA
I,1-Dichloroethene		NA NA	NA	NA	NA	NA	NA "	NA
Methylene Chloride	20	NA NA	NA	NA	NA	NA	NA	NA
Methyl T-Butyl Ether	100	NA NA	NA	NA	NA	NA	NA	NA
rans-1,2-Dichloroethene		NA NA	NA	NA	NA	NA	NA	NA
,1-Dichloroethane		NA NA	NA '	NA	NA	NA	NA	NA NA
is-1,2-Dichloroethene		, NA	NA	NA	NA	NA	NA	NA
,2-Dichloropropane		` NA	NA	NA	, NA	NA	NA	NA
romochloromethane		NA NA	NA	NA	NA	NA	NA	NA
hloroform		NA NA	NA	NA .	NA	NA	NA	N/
1,1-Trichloroethane	2000	NA	· NA	· NA	NA	NA	NA	NA NA
,1-Dichloropropene		NA '	NA	NA	NA	NA	NA	. NA
,2-Dichloroethane		NA	NA	NA	. NA	NA	NA	. NA
ibromomethane		NA	NA	NA	NA	NA	NA	N/A
romodichloromethane -	ľ	NA NA	NA	NA	- NA	NA	NA	NA
is-1,3-Dichloropropene		NA NA	NA	NA	NA	NA	NA	NA
,3-Dichloropropane		NA NA	NA	. NA	NA	NA	NA	NA
etrachloroethene	50	NA NA	NA	NA	NA	· NA	NA	NA.
,2-Dibromoethane		NA NA	NA	NA	NA	NA	NA	NA
hlorobenzene		NA	, NA	NA	NA	NA	NA.	NA
romoform		^ NA	NA	NA	NA.	NA	ŅĀ	NA
2,3-Trichloropropane		NA	NA	NA	NA	NA	NA	NA
romobenzene		NA.	NA	NA	NA	NA	NA	NA
-Chlorotoluene	į.	` NA	NA	NA	NA	NA	NA	NA
-Chlorotoluene	ľ	NA	NA	NA	NA	NA	NA	NA
3-Dichlorobenzene		NA NA	NA	NA	NA	NA	· NA	NA
,4-Dichlorobenzene		NA.	`` NA	NA	NA	NA	NA	NA
,2-Dichlorobenzene		NA	NA	NA	NA.	NA	NA.	NA NA
,2-Dibromo 3-Chloropropane		NA	NA	NA	NA	NA.	NA.	NA
lexachlorobutadiene		' NA	. NA	NA	NA	NA NA	NA.	NA NA
,2,3-Trichlorobenzene		NA.	. NA	NA NA	NA.	NA NA	NA NA	,NA

TABLE 1 SOIL ANALYTICAL RESULTS AURORA-GUNDERSON PROPERTY SHORELINE, WASHINGTON

			BIIONEEL	(12) vý (5) (1110 - 12				
	MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses	BS-1 EV15090186-01 9/29/2015	BS-2 EV15090191-01 9/30/2015	BS-3 EV15090191-02 9/30/2015	BS-4 EV15100043-01 10/07/2015	BS-5 EV15100043-02 10/07/2015	BS-6 EV15100104-02 10/16/2015	P-1 EV15090186-06 9/29/2015
PAHs (μg/kg) Method EPA-8270 SIM								
Naphthalene		NA	NA	NA	NA	NA	20 U	- NA
2-Methylnaphthalene		NA	NA	NA	NA	NA	20 U	· NA
1-Methylnaphthalene		NA	NA	NA	NA	NA	20 U	NA
Total Naphthalenes	5000	NA	NA	NA	NA	NA	ND	NA
Benzo(a)anthracene		NA	NA	NA	NA	NA	20 U	NA
Chrysene		NA NA	NA	NA	NA	NA	20 U	NA
Benzo(b)fluoranthene		NA NA	NA	NA	NA	NA	'20 U	NA
Benzo(k)fluoranthene		NA NA	NA	NA	NA	NA	20 U	NA
Benzo(a)pyrene		NA NA	NA	· NA	NA	- NA	20 U	NA
Indeno(1,2,3-cd(pyrene		NA NA	NA	NA	NA	NA	20 U	NA
Dibenz(a,h)anthracene		NA NA	NA	NA	NA	NA	20 U	NA
cPAH TEQ	100	NA NA	NĄ	NA	NA	NA	ND	NA
PCBs (mg/kg) Method EPA-8082								
PCB-1016		NA	NA	NA	NA	NA	NA	NA
PCB-1221		NA NA	NA	NA	NA	NA	NA	NA
PCB-1232		NA NA	NA	NA	NA	NA	NA	NA
PCB-1242		NA.	NA	NA	NA	NA	NA	NA
PCB-1248	1	NA `	NA	· NA	NA	NA	NA	NA
PCB-1254		NA NA	NA	NA	NA	NA	NA.	NA
PCB-1260	1	, NA	NA	NA	NA	NA	NA	NA
PCB-1268		. NA	NA	NA	NA	NA	NA	NA
Total PCBs	1	NA.	NA	NA	. NA	NA	NA	NA

TABLE 1 SOIL ANALYTICAL RESULTS
AURORA-GUNDERSON PROPERTY
SHORELINE, WASHINGTON

	MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses	SP-1 EV15100043-05 10/07/2015	SP-2 EV15100043-06 10/07/2015	、SP-3 EV15100043-07 10/07/2015	SW-1 EV15090186-02 9/29/2015	SW-2 EV15090186-03 9/29/2015	SW-3 EV15090186-04 9/29/2015	SW-4 EV15090186-05 9/29/2015
TOTAL PETROLEUM HYDROCARBONS (mg/kg)			<u> </u>		,			
NWTPH-DXSG								
TPH-Diesel Range	. 2,000	25 U	25 U	25 U	25 U	25 U	25 U	25 U
TPH-Oil Range	2,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U
NWTPH-Gx							•	
TPH-Gasoline Range	100/30 (a) -	· 3.0 U	3.0 U	3.0 U	3.0 U	4.2	3.0 U	3.0 U
BTEX (mg/kg) Method EPA-8021								
Benzene	0.03	0.030 U	0.030 U	0.030 U	0.030 U	0.030 บ	0.030 U	_ 0.030 U
Toluene	7	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Ethylbenzene	6	0.050 U	0.050 U	0.050 ປ	0.050 U	0.050 U	0.050 U	0.050 U
Xylenes	9	0.20 U	. 0.20 U	0.20 U	0.20 U	0.30	0.20 U	0.20 U
TOTAL METALS (mg/kg) Method EPA-6020	•	<i>,</i> .						
Lead	250	. 12	NA	NA	7.0	3.0	3.5	2.6
VOLATILES (μg/kg) Method EPA-8260 SIM								
Vinyl Chloride		NA NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride		NA NA	NA	NA	NA	NA	NA	NA
Trichloroethene	30	NA NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane		NA NA	NA	NA	NA	NA	NA	NA
Trans-1,3-Dichloropropene		NA NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	ł	NA NA	^NA	NA .	NA	NA	NA	~ NA
Dibromochloromethane		NA NA	NA	NA	NA	NA	NA	. NA
1,1,1,2-Tetrachloroethane		NA	, NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane		NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	· 1	NA	NA	, NA	NA `	NA	NA	NA

TABLE 1
SOIL ANALYTICAL RESULTS
AURORA-GUNDERSON PROPERTY
SHORELINE, WASHINGTON

				12, 007.01111010				
	MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses	SP-1 EV15100043-05 10/07/2015	SP-2 EV15100043-06 10/07/2015	SP-3 EV15100043-07 10/07/2015	SW-1 EV15090186-02 9/29/2015	SW-2 EV15090186-03 9/29/2015	SW-3 EV15090186-04 9/29/2015	- SW-4 EV15090186-05 9/29/2015
VOLATILES (μg/kg)	•							•
Method EPA-8260								
Dichlorodifluoromethane	ŀ	NA	NA	NA	NA	NA	NA	NA NA
hloromethane	ļ.	· NA	NA	NA	NA	NA	NA	NA
3romomethane		, NA	NA	NA	NA	. NA	NA	NA
Chloroethane		NA NA	NA	NA	NA	NA	NA	N/A
richlorofluoromethane		NA NA	· NA	NA	NA	NA	NA	NA
,1-Dichloroethene		NA	NA	NA	NA	· NA	NA	N/
Methylene Chloride	20 .	NA	. NA	NA	NA	NA	NA	NA
/lethyl T-Butyl Ether	100	NA	NA	NA	NA	NA	. NA	N/
rans-1,2-Dichloroethene		NA	, NA	NA	NA	NA	NA	NA.
,1-Dichloroethane		NA	NA	NA	NA	NA	NA	, NA
is-1,2-Dichloroethene	İ	NA	NA ¹	NA	NA	NA	NA	N/
,2-Dichloropropane		NA	NA	NA	NA	NA	, NA	N/
romochloromethane		NA	NA	NA	NA	NA	NA	N/
hloroform		NA	NA	NA	NA	NA	NA	. N
,1,1-Trichloroethane	2000	NA	NA	NA	NA	NA	NA	N/
I,1-Dichloropropene	,	NA	NA	NA	NA	NA	NA	. N
L,2-Dichloroethane		NA	NA	NA	NA	NA	NA	N/
Dibromomethane		NA	NA	. NA	NA	NA	NA	N/
Bromodichloromethane		NA	NA	NA	NA	NA	NA	N/
Cis-1,3-Dichloropropene		NA NA	NA	NA	NA	NA	NA	N/
,3-Dichloropropane		NA	NA	NA	NA	NA	NA	N/
etrachloroethene	50	NA	NA	NA	NA	NA	NA	N/
,2-Dibromoethane		NA	NA	NA	NA	NA	NA	N.
Thlorobenzene .	- 1	NA	NA	NA	NA	NA	NA	N.
Bromoform		NA	NA	NA	NA	NA	NA	N/
1,2,3-Trichloropropane	1	NA NA	NA	NA	NA	NA	NA	N.
Bromobenzene]	NA NA	NA	NA	NA	NA	NA	N.
-Chlorotoluene		NA NA	NA	NA	NA	NA	NA	N.
-Chlorotoluene		NA NA	NA	. NA	NA	NA	NA	N.
,3-Dichlorobenzene	[, NA	NA	NA	NA	NA	NA	N/
,4-Dichlorobenzene		NA	NA	NA	NA	NA	NA	, N
,2-Dichlorobenzene		NA NA	NA	NA	NA	NA	NA	N.
,2-Dibromo 3-Chloropropane	,	NA NA	NA	NA	NA	NA	NA	N
Hexachlorobutadiene		NA	NA	NA	NA	NA	NA	N.
1,2,3-Trichlorobenzene		NA NA	NA	NA	NA	NA	NA	N.

TABLE 1
SOIL ANALYTICAL RESULTS
AURORA-GUNDERSON PROPERTY
SHORELINE, WASHINGTON

	MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses	SP-1 EV15100043-05 10/07/2015	SP-2 EV15100043-06 10/07/2015	SP-3 EV15100043-07 10/07/2015	- SW-1 EV15090186-02 9/29/2015	SW-2 EV15090186-03 9/29/2015	SW-3 EV15090186-04 9/29/2015	SW-4 EV15090186-05 9/29/2015
PAHs (µg/kg)								
Method EPA-8270 SIM								. ,
Naphthalene		- NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene		NA	NA	NA	, NA	NA	NA	NA
1-Methylnaphthalene	•	NA	NA	NA	NA	NA	NA	NA
Total Naphthalenes	5000	, NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene		· NA	NA	NA	NA	, NA	NA	NA
Chrysene		, NA	NA	NA	NA	· NA	_ NA	NA
Benzo(b)fluoranthene		`NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene		NA NA	NA	NA	· NA	NA	NA	NA
Benzo(a)pyrene		NA NA	NA	, NA	NA	NA	NA	NA
Indeno(1,2,3-cd(pyrene		NA NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene		NA NA	NA	NA	NA	NA	NA	NA
cPAH TEQ	100	NA NA	NA	NA	NA	NA	NA	NA
•								
PCBs (mg/kg)	•			•				
Method EPA-8082							!	
PCB-1016		· NA	NA	NA	. NA	NA	NÁ	NA
PCB-1221		NA	NA	NA	NA	NA	NA	NA
PCB-1232	ł	NA NA	NA	NA	NA	NA	NA	. NA
PCB-1242		NA	· NA	NA	NA	NA	NA	. NA
PCB-1248		NA	NA	NA	NA	NA	NA	NA
PCB-1254		NA	NA	NA .	NA	NA	NA	NA
PCB-1260	-	NA	NA	NA	NA	NA	NA	NA
PCB-1268	1	NA	NA	NA	NA	NA	NA	NA
Total PCBs	1	NA NA	NA	NA	NA'	NA	, NA	NA

TABLE 1
SOIL ANALYTICAL RESULTS
AURORA-GUNDERSON PROPERTY
SHORELINE, WASHINGTON

			5.1.511.2	-,	-			
	MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses	SW-5 EV15090186-07 9/29/2015	SW-6 EV15090191-03 9/30/2015	SW-7 EV15100043-03 10/7/2015	SW-8 EV15100043-04 10/7/2015	5W-9 EV15100104-01 10/16/2015	SW-10 EV15100104-03 10/16/2015	SW-11 EV15100104-04 10/16/2015
TOTAL PETROLEUM HYDROCARBONS (mg/kg)								•
NWTPH-DXSG		· ·						
TPH-Diesel Range	2,000	25 U	. 25 U	25 U	25 U	150	25 U	25 U
TPH-Oil Range	2,000	50 U	50 U	50 U	94	16,000	420	50 U
NWTPH-Gx					•			
TPH-Gasoline Range	100/30 (a)	3.0 U	. 3.0 U	3,0 U	3.0 U	20 U	15	3.0 U
BTEX (mg/kg) Method EPA-8021								
Benzene	0.03	0.030 U	0.030 U	0.030 U				
Toluene	7	0.050 U	0.050 U	0.050 U				
Ethylbenzene	6	0.050 U	0.058	0.050 U				
Xylenes	9	0.20 U	0.34	0.20 U				
TOTAL METALS (mg/kg) Method EPA-6020								
Lead	250	3.0	4.4	NA	NA	6.8	14	14
VOLATILES (μg/kg) Method EPA-8260 SIM					-		,	-
Vinyl Chloride		NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride		NA NA	NA	NA	NA	NA	NA	NA
Trichloroethene	30	NA NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane		NA	NA	, NA	NA	NA	NA	NA
Trans-1,3-Dichloropropene		NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane		NA	NA	NA	NA	NA	NA	NA NA
Dibromochloromethane .		NA	NA	NA	NA	NA NA	NA	NA NA
1,1,1,2-Tetrachloroethane		NA	NA	NA 	NA	· NA	NA	NA NA
1,1,2,2-Tetrachloroethane		NA	· NA	NA	, NA	NA	NA 	NA
1,2,4-Trichlorobenzene		NA	NA	NA	NA .	NA	NA	NA
	1	1	_					

TABLE 1
SOIL ANALYTICAL RESULTS
AURORA-GUNDERSON PROPERTY
SHORELINE, WASHINGTON

,	MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses	SW-5 EV15090186-07 9/29/2015	SW-6 EV15090191-03 9/30/2015	SW-7 EV15100043-03 10/7/2015	SW-8 EV15100043-04 10/7/2015	SW-9 EV15100104-01 10/16/2015	SW-10 EV15100104-03 10/16/2015	SW-11 EV15100104-04 10/16/2015
VOLATILES (µg/kg)				•				
Method EPA-8260								
Dichlorodifluoromethane		NA NA	NA	NA	NA	NA	NA	· NA
Chloromethane		NA NA	NA	NA	NA	NA	NA	NA
Bromomethane		NA NA	NA	NA	NA	NA	- NA	NA
Chloroethane		NA NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane		NA ·	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene		NA NA	NA	NA	NA	ŅA	NA	NA
Methylene Chloride	20	NA NA	NA	NA	NA	NA	NA	NA
Methyl T-Butyl Ether	100	NA NA	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	İ	NA -	NA	NA	NA	· NA	NA	NA
1,1-Dichloroethane	•	NA	NA	NA	NA	NA	NA	NA
Cis-1,2-Dichloroethene		NA NA	NA	NA	NA	. NA	NA	NA
2,2-Dichloropropane	ľ	NA NA	NA	NA	NA	NA	NA	NA
Bromochloromethane		NA NA	NA	NA	NA	· NA	NA	NA
Chloroform		NA NA	· NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	2000	NA NA	· NA	NA	NA	NA	NA	` NA
1,1-Dichloropropene		NA	NA	NA	NA ·	NA	. NA	NA
1,2-Dichloroethane		NA NA	NA NA	NA	NA	NA	NA	NA
Dibromomethane		NA NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane		NA	NA	NA	NA	NA	. NA	NA
Cis-1,3-Dichloropropene		NA	NA	NA	· NA	NA	NA	NA
1,3-Dichloropropane		NA	NA	NA	. NA	NA	NA	NA
Tetrachloroethene	50	NA NA	NA	NA	NA	- NA	NA	NA
1,2-Dibromoethane		NA NA	NA	NA	NA	NA ~	NA	NA
Chlorobenzene		NA NA	· NA	NA	NA	NA	NA	NA
Bromoform		· NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane		NA NA	, NA	NA	NA	NA	NA	NA
Bromobenzene		NA NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene		NA NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene		NA NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene		NA NA	NA	NA	· NA	NA	NA	NA
1,4-Dichlorobenzene		NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene		NA NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo 3-Chloropropane		NA NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene		NA	NA	NA	. NA	· NA	NA	· NA
1,2,3-Trichlorobenzene		NA NA	NA	NA	NA	NA	NA	NA

TABLE 1
SOIL ANALYTICAL RESULTS
AURORA-GUNDERSON PROPERTY
SHORELINE, WASHINGTON

	MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses	SW-5 EV15090186-07 9/29/2015	SW-6 EV15090191-03 9/30/2015	SW-7 EV15100043-03 10/7/2015	SW-8 EV15100043-04 10/7/2015	SW-9 EV15100104-01 10/16/2015	SW-10 EV15100104-03 10/16/2015	SW-11 EV15100104-04 10/16/2015
PAHs (µg/kg)								
Method EPA-8270 SIM					•			
Naphthalene	l ,	NA	, NA	NA	NA	51	33	20 U
2-Methylnaphthalene	1	NA	NA	NA	NA	81	64	20 U
1-Methylnaphthalene	· ·	NA	NA	NA	NA	99	44	20 U
Total Naphthalenes	5000	NA NA	NA	NA	NA	231	141	ND
Benzo(a)anthracene		ŊA	NA	NA	NA	29	20 U	20 U
Chrysene		NA	NA	NA	NA	88	20 U	20 U
Benzo(b)fluoranthene		NA NA	NA	NA	NA	20 U	20 U	20 U
Benzo(k)fluoranthene		NA	NA	NA	NA	20 U	20 U	20 U
Benzo(a)pyrene	}	NA	NA	. NA	NA	20 U	20 U	20 U
Indeno(1,2,3-cd(pyrene		NA -	NA	. NA	NA	20 U	20 U	20 U
Dibenz(a,h)anthracene		NA	NA	NA	NA	20 U	20 U	20 U
cPAH TEQ	100	NA ,	NA	NA	NA	3.8	ND	ND
		•						
PCBs (mg/kg)							•	
Method EPA-8082 PCB-1016	. .	NA NA	NA	NA	NA	NA	NA	NA
PCB-1016		NA NA	NA NA	NA NA	NA NA	NA 3	NA NA	NA NA
PCB-1221 PCB-1232		NA NA	NA NA	NA NA	NA NA	NA NA	NA	NA
PCB-1232 PCB-1242	!	NA NA	NA NA	NA NA	NA	NA.	NA	NA
PCB-1242 PCB-1248		NA NA	NA NA	NA	NA NA	NA NA	NA	NA
PCB-1254		NA NA	NA.	NA NA	NA	NA	NA	NA
PCB-1254 PCB-1260		NA NA	NA NA	^ NA	'NA	NA	NA	NA
PCB-1250 PCB-1268	}	NA NA	NA.	NA NA	NA	NA	NA	NA
Total PCBs	1	NA.	NA	NA	NA	NA	NA	NA

TABLE 1
SOIL ANALYTICAL RESULTS
AURORA-GUNDERSON PROPERTY
SHORELINE, WASHINGTON

	-	_	
	MTCA		
	Method A		
	Soil Cleanup Levels	SW-12	UST-6
	for Unrestricted	EV15100140-01	EV15100066-01
	Land Uses	10/23/2015	10/9/2015
TOTAL PETROLEUM			
HYDROCARBONS (mg/kg)			
NWTPH-DXSG			
TPH-Diesel Range	2,000	25 U	. 87 U
TPH-Oil Range	2,000	350	4,700
NWTPH-Gx			
TPH-Gasoline Range	100/30 (a)	. 3.0 U	480
BTEX (mg/kg)			
Method EPA-8021			
Benzene	0.03	0.030 U	0.92
Toluene	7	0.050 U	7.0
Ethylbenzene	6	0.050 U	5.7
Xylenes	9	0.20 U	39
TOTAL METALS (mg/kg)			
Method EPA-6020			•
Lead	250	46	67
VOLATILES (μg/kg)			·
Method EPA-8260 SIM			
Vinyl Chloride		l NA	10 U
Carbon Tetrachloride		NA NA	10 U
Trichloroethene	30	NA NA	10 U
1,2-Dichloropropane		NA NA	10 U
Trans-1,3-Dichloropropene		NA.	10 U
1,1,2-Trichloroethane		NA.	10 U
Dibromochloromethane		NA.	10 ປ
1,1,1,2-Tetrachloroethane		NA	10 U
1,1,2,2-Tetrachloroethane		NA NA	10 U
1,2,4-Trichlorobenzene	1	l NA	10 U

TABLE 1
SOIL ANALYTICAL RESULTS
AURORA-GUNDERSON PROPERTY
SHORELINE, WASHINGTON

VOLATILES (µg/kg) Method FPA-8260 Dichlorodifluoromethane NA 10 U Chloromethane NA 10 U Bromomethane NA 10 U Chloroethane NA 10 U Trichlorofluoromethane NA 10 U 1,1-Dichloroethene NA 10 U Methyl T-Butyl Ether 100 NA 10 U Trans-1,2-Dichloroethene NA 10 U 1,1-Dichloroethane NA 10 U Gis-1,2-Dichloroethane NA 10 U Gis-1,2-Dichloropropane NA 10 U Bromochloromethane NA 10 U Chloroform NA 10 U 1,1-Dichloropropane NA 10 U Bromodichloromethane NA 10 U 1,2-Dichloropropane NA 10 U Gis-1,3-Dichloropropane NA 10 U Bromodichloromethane NA 10 U Cis-1,3-Dichloropropane NA 10 U Tetrachloroethane NA		MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses	. SW-12 EV15100140-01 10/23/2015	UST-6 EV15100066-01 10/9/2015
Dichlorodifluoromethane	VOLATILES (µg/kg)			
Chloromethane NA	Method EPA-8260		1	
Bromomethane NA	Dichlorodifluoromethane	1	· NA	10 U
Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Methylene Chloride Methyl T-Butyl Ether Mothylene Chloride Methyl T-Butyl Ether Mothylene Chloride Mothyl T-Butyl Ether Mothylene Chloride Mothyl T-Butyl Ether Mothylene Chloride Mothyl T-Butyl Ether Mothyl T-Butyl Ether Mothylene Chloroethene NA Mothylene Chloroethene NA Mothylene Chloroethene NA Mothylene Chlorofordethene NA Mothylene Chlorofordethene NA Mothylene Chlorofordethane NA Mothylene Chlorofordethane NA Mothylene Chlorofordethane NA Mothylene Chloroethane NA Mothylene Chloromethane	-	NA	10 U	
Trichloroffluoromethane NA 10 U 1,1-Dichloroethene NA 10 U Methylene Chloride 20 NA 20 U Methyl T-Butyl Ether 100 NA 10 U Trans-1,2-Dichloroethene NA 10 U 1,1-Dichloroethane NA 10 U 1,1-Dichloroethane NA 10 U 2,2-Dichloroethane NA 10 U 2,2-Dichloropropane NA 10 U U 1,1-Dichloroethane NA 10 U 1,1-Trichloroethane NA 10 U 1,1-Dichloroethane NA 10 U 1,1-Dichloropropene NA 10 U U 1,2-Dichloroethane NA 10 U 1,2-Dichloropropane NA 10 U U 1,3-Dichloropropane NA 10 U 1,3-Dichloropropane NA 10 U 1,2-Dibromoethane NA 10 U 1,2-Dibromoethane NA 10 U U 1,2-Dibromoethane NA 10 U 1,2-Dibromoethane NA 10 U U 1,2-Di	Bromomethane		NA	10 ປ
1,1-Dichloroethene	Chloroethane		NA NA	10 U
Methylene Chloride 20 NA 20 U Methyl T-Butyl Ether 100 NA 10 U Trans-1,2-Dichloroethene NA 10 U Cis-1,2-Dichloroethene NA 10 U Cis-1,2-Dichloropropane NA 10 U Bromochloromethane NA 10 U Chloroform NA 10 U 1,1-1-Trichloroethane NA 10 U 1,2-Dichloropropene NA 10 U 1,2-Dichloroethane NA 10 U Bromodichloromethane NA 10 U Cis-1,3-Dichloropropene NA 10 U 1,3-Dichloropropane NA 10 U Tetrachloroethane NA 10 U Chlorobenzene NA 10 U Bromoform NA 10 U 1,2-3-Trichloropropane NA 10 U Bromoform NA 10 U 1,2-3-Trichloropropane NA 10 U Bromoform NA 10 U 1,3-Dichlorobenzene NA	Trichlorofluoromethane		NA	10 ປ
Methyl T-Butyl Ether 100 NA 10 U Trans-1,2-Dichloroethene NA 10 U 1,1-Dichloroethane NA 10 U Cis-1,2-Dichloroethene NA 10 U 2,2-Dichloropropane NA 10 U Bromochloromethane NA 10 U Chloroform NA 10 U 1,1-Trichloroethane NA 10 U 1,1-Dichloropropene NA 10 U 1,2-Dichloroethane NA 10 U Bromodichloromethane NA 10 U Bromodichloropropene NA 10 U 1,3-Dichloropropane NA 10 U Tetrachloroethane NA 10 U 1,2-Dibromoethane NA 10 U 1,2-Dibromoethane NA 10 U Chlorobenzene NA 10 U Bromoform NA 10 U 1,2,3-Trichloropropane NA 10 U Bromobenzene NA 10 U 2-Chlorotoluene NA 10 U </td <td>1,1-Dichloroethene</td> <td></td> <td>NA NA</td> <td>10 U</td>	1,1-Dichloroethene		NA NA	10 U
Trans-1,2-Dichloroethene NA 10 U 1,1-Dichloroethane NA 10 U Cis-1,2-Dichloroethene NA 10 U 2,2-Dichloropropane NA 10 U Bromochloromethane NA 10 U Chloroform NA 10 U 1,1-1-Trichloroethane NA 10 U 1,1-Dichloropropene NA 10 U 1,2-Dichloroethane NA 10 U Bromodichloromethane NA 10 U Gis-1,3-Dichloropropane NA 10 U 1,3-Dichloropropane NA 10 U Tetrachloroethane 50 NA 10 U 1,2-Dibromoethane NA 10 U Chlorobenzene NA 10 U Romoform NA 10 U Bromoform NA 10 U 1,2,3-Trichloropropane NA 10 U Bromobenzene NA 10 U 2-Chlorotoluene NA 10 U 1,3-Dichlorobenzene NA 10 U	Methylene Chloride	20	NA NA	20 U
1,1-Dichloroethane	Methyl T-Butyl Ether	100	NA	10 U
Cis-1,2-Dichloroethene NA 10 U 2,2-Dichloropropane NA 10 U Bromochloromethane NA 10 U Chloroform NA 10 U 1,1,1-Trichloroethane NA 10 U 1,1-Dichloropropene NA 10 U 1,2-Dichloroethane NA 10 U Dibromomethane NA 10 U Gromodichloromethane NA 10 U Cis-1,3-Dichloropropane NA 10 U Tetrachloroethene 50 NA 10 U 1,2-Dibromoethane NA 10 U Chlorobenzene NA 10 U Bromoform NA 10 U 1,2,3-Trichloropropane NA 10 U Bromobenzene NA 10 U 2-Chlorotoluene NA 10 U 4-Chlorotoluene NA 10 U 1,3-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U	Trans-1,2-Dichloroethene	_	NA	10 U
2,2-Dichloropropane NA 10 U Bromochloromethane NA 10 U Chloroform NA 10 U 1,1,1-Trichloroethane 2000 NA 10 U 1,2-Dichloropropene NA 10 U 1,2-Dichloroethane NA 10 U Bromodichloromethane NA 10 U Cis-1,3-Dichloropropane NA 10 U 1,3-Dichloropropane NA 10 U Tetrachloroethane NA 10 U 1,2-Dibromoethane NA 10 U Chlorobenzene NA 10 U Bromoform NA 10 U 1,2,3-Trichloropropane NA 10 U Bromobenzene NA 10 U 2-Chlorotoluene NA 10 U 4-Chlorotoluene NA 10 U 1,3-Dichlorobenzene NA 10 U 1,4-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 50 U <td< td=""><td>1,1-Dichloroethane</td><td></td><td>NA</td><td>10 U</td></td<>	1,1-Dichloroethane		NA	10 U
Bromochloromethane	Cis-1,2-Dichloroethene		NA	`- 10 ປ
Chloroform NA 10 U 1,1,1-Trichloroethane 2000 NA 10 U 1,2-Dichloroethane NA 10 U 1,2-Dichloroethane NA 10 U Bromodichloromethane NA 10 U Cis-1,3-Dichloropropene NA 10 U 1,3-Dichloropropane NA 10 U Tetrachloroethene 50 NA 10 U 1,2-Dibromoethane NA 10 U Chlorobenzene NA 10 U Bromoform NA 10 U 1,2,3-Trichloropropane NA 10 U Bromobenzene NA 10 U 2-Chlorotoluene NA 10 U 4-Chlorotoluene NA 10 U 1,3-Dichlorobenzene NA 10 U 1,4-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 50 U Hexachlorobutadiene NA 10 U	2,2-Dichloropropane		NA	10 ປ
1,1,1-Trichloroethane 2000 NA 10 U 1,1-Dichloropropene NA 10 U 1,2-Dichloroethane NA 10 U Dibromomethane NA 10 U Gis-1,3-Dichloropropene NA 10 U 1,3-Dichloropropane NA 10 U Tetrachloroethene 50 NA 10 U 1,2-Dibromoethane NA 10 U Chlorobenzene NA 10 U Bromoform NA 10 U 1,2,3-Trichloropropane NA 10 U Bromobenzene NA 10 U 2-Chlorotoluene NA 10 U 4-Chlorotoluene NA 10 U 1,3-Dichlorobenzene NA 10 U 1,4-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 50 U Hexachlorobutadiene NA 10 U	Bromochloromethane		NA	10 U
1,1-Dichloropropene NA 10 U 1,2-Dichloroethane NA 10 U Dibromomethane NA 10 U Gis-1,3-Dichloropropene NA 10 U 1,3-Dichloropropane NA 10 U Tetrachloroethene 50 NA 10 U 1,2-Dibromoethane NA 10 U Chlorobenzene NA 10 U Bromoform NA 10 U 1,2,3-Trichloropropane NA 10 U Bromobenzene NA 10 U 2-Chlorotoluene NA 10 U 4-Chlorotoluene NA 10 U 1,3-Dichlorobenzene NA 10 U 1,4-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 50 U Hexachlorobutadiene NA 10 U	Chloroform		NA	10 U
1,2-Dichloroethane NA 10 U Dibromomethane NA 10 U Bromodichloromethane NA 10 U Cis-1,3-Dichloropropene NA 10 U 1,3-Dichloropropane NA 10 U Tetrachloroethene 50 NA 10 U 1,2-Dibromoethane NA 5.0 U Chlorobenzene NA 10 U Bromoform NA 10 U 1,2,3-Trichloropropane NA 10 U Bromobenzene NA 10 U 2-Chlorotoluene NA 10 U 4-Chlorotoluene NA 10 U 1,3-Dichlorobenzene NA 10 U 1,4-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 50 U Hexachlorobutadiene NA 10 U	1,1,1-Trichloroethane	2000	NA	10 U
Dibromomethane NA 10 U Bromodichloromethane NA 10 U Cis-1,3-Dichloropropene NA 10 U 1,3-Dichloropropane NA 10 U Tetrachloroethene 50 NA 10 U 1,2-Dibromoethane NA 5.0 U Chlorobenzene NA 10 U Bromoform NA 10 U 1,2,3-Trichloropropane NA 10 U Bromobenzene NA 10 U 2-Chlorotoluene NA 10 U 4-Chlorotoluene NA 10 U 1,3-Dichlorobenzene NA 10 U 1,4-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 50 U Hexachlorobutadiene NA 10 U	1,1-Dichloropropene	1	NA	10 U
Bromodichloromethane NA 10 U Cis-1,3-Dichloropropene NA 10 U 1,3-Dichloropropane NA 10 U Tetrachloroethene 50 NA 10 U 1,2-Dibromoethane NA 5.0 U Chlorobenzene NA 10 U Bromoform NA 10 U 1,2,3-Trichloropropane NA 10 U Bromobenzene NA 10 U 2-Chlorotoluene NA 10 U 4-Chlorotoluene NA 10 U 1,3-Dichlorobenzene NA 10 U 1,4-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 50 U Hexachlorobutadiene NA 10 U	1,2-Dichloroethane		NA	10 U
Cis-1,3-Dichloropropene NA 10 U 1,3-Dichloropropane NA 10 U Tetrachloroethene 50 NA 10 U 1,2-Dibromoethane NA 5.0 U Chlorobenzene NA 10 U Bromoform NA 10 U 1,2,3-Trichloropropane NA 10 U Bromobenzene NA 10 U 2-Chlorotoluene NA 10 U 4-Chlorotoluene NA 10 U 1,3-Dichlorobenzene NA 10 U 1,4-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 10 U Hexachlorobutadiene NA 10 U	Dibromomethane		NA	10 U
1,3-Dichloropropane NA 10 U Tetrachloroethene 50 NA 10 U 1,2-Dibromoethane NA 5.0 U Chlorobenzene NA 10 U Bromoform NA 10 U 1,2,3-Trichloropropane NA 10 U Bromobenzene NA 10 U 2-Chlorotoluene NA 10 U 4-Chlorotoluene NA 10 U 4-Chlorotoluene NA 10 U 1,3-Dichlorobenzene NA 10 U 1,4-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 50 U Hexachlorobutadiene NA 10 U	Bromodichloromethane		NA	10 U
Tetrachloroethene 50 NA 10 U 1,2-Dibromoethane NA 5.0 U Chlorobenzene NA 10 U Bromoform NA 10 U 1,2,3-Trichloropropane NA 10 U Bromobenzene NA 10 U 2-Chlorotoluene NA 10 U 4-Chlorotoluene NA 10 U 1,3-Dichlorobenzene NA 10 U 1,4-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 50 U Hexachlorobutadiene NA 10 U	Cis-1,3-Dichloropropene		ΝA	10 U
1,2-Dibromoethane NA 5.0 U Chlorobenzene NA 10 U Bromoform NA 10 U 1,2,3-Trichloropropane NA 10 U Bromobenzene NA 10 U 2-Chlorotoluene NA 10 U 4-Chlorotoluene NA 10 U 1,3-Dichlorobenzene NA 10 U 1,4-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 50 U Hexachlorobutadiene NA 10 U	1,3-Dichloropropane		NA.	10 U
Chlorobenzene NA 10 U Bromoform NA 10 U 1,2,3-Trichloropropane NA 10 U Bromobenzene NA 10 U 2-Chlorotoluene NA 10 U 4-Chlorotoluene NA 10 U 1,3-Dichlorobenzene NA 10 U 1,4-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 50 U Hexachlorobutadiene NA 10 U	Tetrachloroethene	50	NA NA	10 ປ
Bromoform NA 10 U 1,2,3-Trichloropropane NA 10 U Bromobenzene NA 10 U 2-Chlorotoluene NA 10 U 4-Chlorotoluene NA 10 U 1,3-Dichlorobenzene NA 10 U 1,4-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 50 U Hexachlorobutadiene NA 10 U	1,2-Dibromoethane		NA	5.0 U
1,2,3-Trichloropropane NA 10 U Bromobenzene NA 10 U 2-Chlorotoluene NA 10 U 4-Chlorotoluene NA 10 U 1,3-Dichlorobenzene NA 10 U 1,4-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 50 U Hexachlorobutadiene NA 10 U	. Chlorobenzene		NA NA	10 U
Bromobenzene NA 10 U 2-Chlorotoluene NA 10 U 4-Chlorotoluene NA 10 U 1,3-Dichlorobenzene NA 10 U 1,4-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 50 U Hexachlorobutadiene NA 10 U	Bromoform		NA	10 U
2-Chlorotoluene NA 10 U 4-Chlorotoluene NA 10 U 1,3-Dichlorobenzene NA 10 U 1,4-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 50 U Hexachlorobutadiene NA 10 U	1,2,3-Trichloropropane	·	NA .	. 10 U
4-Chlorotoluene NA 10 U 1,3-Dichlorobenzene NA 10 U 1,4-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 50 U Hexachlorobutadiene NA 10 U	Bromobenzene		NA NA	10 U
1,3-Dichlorobenzene NA 10 U 1,4-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 50 U Hexachlorobutadiene NA 10 U	2-Chlorotoluene .		NA NA	10 U
1,4-Dichlorobenzene NA 10 U 1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 50 U Hexachlorobutadiene NA 10 U	4-Chlorotoluene ·		NA	10 U
1,2-Dichlorobenzene NA 10 U 1,2-Dibromo 3-Chloropropane NA 50 U Hexachlorobutadiene NA 10 U	1,3-Dichlorobenzene		NA	. 10 U
1,2-Dibromo 3-Chloropropane NA 50 U Hexachlorobutadiene NA 10 U	1,4-Dichlorobenzene		NA	10 U
Hexachlorobutadiene NA 10 U	1,2-Dichlorobenzene		NA	10 U
	1,2-Dibromo 3-Chloropropane		NA	50 U
1.2.3-Trichlorobenzene NA 10 U	Hexachlorobutadiene		NA	10 U
	1,2,3-Trichlorobenzene		NA	. 10 U

TABLE 1
SOIL ANALYTICAL RESULTS
AURORA-GUNDERSON PROPERTY
SHORELINE, WASHINGTON

•	MTCA	j	
	Method A		
	Soil Cleanup Levels	SW-12	UST-6
	for Unrestricted	EV15100140-01	EV15100066-01
	Land Uses	10/23/2015	10/9/2015
PAHs (μg/kg)			
Method EPA-8270 SIM			
Naphthalene		20 U	4,600
2-Methylnaphthalene		20 U	6,700
1-Methylnaphthalene		20 U	4,900
Total Naphthalenes	5000	ND	16,200
Benzo(a)anthracene		20 U	160
Chrysene .		20 U	110
Benzo(b)fluoranthene		20 U	20 U
Benzo(k)fluoranthene		20 U	20 U
Benzo(a)pyrene		20 U	20 U
Indeno(1,2,3-cd(pyrene		20 U	20 U .
Dibenz(a,h)anthracene		20 U	、 20 U
cPAH TEQ .	100	ND	17.1
PCBs (mg/kg)	_		
Method EPA-8082	``		
PCB-1016		NA	· 0.10 U
PCB-1221		NA	0. 1 0 U
PCB-1232 .		NA NA	0. 10 U
PCB-1242		NA	. 0.10 U
PCB-1248	·	NA	0.10 U
PCB-1254		NA	0.10 Ų
PCB-1260		NA	0.10 U
PCB-1268		NA	0.10 U
Total PCBs] 1	NA	ND,

⁽a) Cleanup level is 100 mg/kg when benzene is not present; otherwise 30 mg/kg.

U = The compound was not detected at the reported concentration.

Bold = Detected compound.

Box = Exceedance of cleanup level.

NA = Not analyzed.

30-Day Notice to Washington State Department of Ecology of Intent to Decommission



UNDERGROUND STORAGE TANK (UST)

FOR OFFICE USE ONLY			
Site ID #			

DEPARTMENT OF ECOLOGY State of Washington Please th	e appropriate box		f form for inst	ructions)	1310#
ricase - til	o appropriate con	to Insta		Close	
HQ (360)407-7170	/ Central (509)57	75-2490 / Ea	stern (509)32		orthwest (425)649-7000 / Southwest (360)407-6300
SITE INFORMATION		1.4	A 1 8		INFORMATION will be returned to this address)
				Cit	to of Shoreline
Tag or UBI number	P			UST Own	net/Operator 1500 Midvale Ave N
Site Name 19806 - 19	804 Auror	. Ave	N	sh	Address/PO Box oreline WA 98133
Site Physical Addre	SS			City	Zip Code
	e W	4 48	133	* NY1	PASHA Sowers /206-801-248
City	0 = # 1/0 =		p Code	Owner/O	BOWERS & SHORELINEWA. GO
Ken Kettel Site Phone Number	+ PE # 425	1-455-4 123-141	08	Owner/O	Operator Email Address
ANK INFORMATION					
Tank ID	Substance Stored	Capacity	Date Pr Expected	7	Comments:
1	wasteril	3,000 gel	August .		Total of G UST's. Abandoned
2	Waste 0:1	3,000 501	J		Abandand
3	Diesel	3,00051			- Francoura
4	Diesel	3,000,01			
5 8 (6 - Dissel	3,000 501	a 3,000 g	ellan	
) SERVICE PROVIDE	ER INFORMATION -	AND RESIDENCE AND RESIDENCE	opriate boxes		

1) SERVICE PROVIDER INFORMATION - check the appropriate boxes	
PLEASE NOTE: INDIVIDUALS PERFORMING UST PASSED ANOTHER QUALIFYING EXAM APPR	SERVICES MUST BE ICC CERTIFIED OR HAVE ROVED BY THE DEPARTMENT OF ECOLOGY.
☐ Installer ☐ Decommissioner ☐ Site Assessor	Diane Kamacho
Service Provider Company Name DIANE'S TANK REMOVAL	Contact Person 206 · 510 - 9497
Certified Service Provider Name	Dianes Tanka hotmail. 10 m
ICC Certification # 805 7526 - U2 U7	Contact Email Address
2) SERVICE PROVIDER INFORMATION (REQUIRED IF USING MORE TO	HAN ONE PROVIDER) - check the appropriate boxes
☐ Installer ☐ Decommissioner ☐ Site Assessor	
Service Provider Company Name	Contact Person
ertified Service Provider Name	Contact Phone Number

Contact Email Address

ICC Certification #

Underground Storage Tank DecommissioningCertificates



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 Inform	ation		Owner Information						
Site ID Number			UST Own	er/Operator Cil-y	of Shoreline					
(Available from Eco	ology if the tanks are n	egistered)	•	•	•					
Site/Business N	ame <u>Gun</u> a	lerson Proper	Mailing Ad	Idress 17500 Au	dvale Ave H					
Site Address	•	804 Aurora		•	Street					
olle Address	11000 11	DO 1 MATORIE	TANKE 14		P.O. Box					
City/StateS	noceline	₩A	City/State	Shoreline	WA 98133					
Zip Code 981	33 Telep	hone (남25) <u>나(む5 - '</u>	1720 Zip Code	Tele	ephone (706) 80 1-248					
Owners Signat		of me		SHA SOWERS)	,					
otriioio digilat		Tank Closure/Cl								
	785.		Ţ ,							
· •	· - · · · · · · · · · · · · · · · · · ·	Tank Rem	·, · · · · · · · · · · · · · · · · · ·							
_	•) i	· · · · / · · · · · · · · · · · · · · ·	, -	No. 8057526-U					
Supervisor's S		Tram Kar		Date _						
Address 187/	20 Sound Vie	WPI	P.O. Box		i W4 93177					
Street	nonds in4	95070	P.O. Box		ne (24) 511 -9497					
ناه سے	110716-01-1-1-1-1-1-1									
City	nowes 194	State	Zip Code							
City		Slate Site Ch	eck/Site Asse:	ssor Dllan Frazer						
City Certified Site As Address Street		Site Ch	eck/Site Asse: בומליב P.O. Box	ssor D Nan Frazer Telephor						
City Certified Site As Address		Slate Site Ch	eck/Site Asse:	ssor D Nan Frazer Telephor						
City Certified Site As Address Street		Site Ch	P.O. Boy	ssor D Nan Frazer Telephor						
City Certified Site As Address Street	ssessor Lan	Site Ch	P.O. Boy Zip Code	ssor D Nan Frazer Telephor	Contamination Present at the Time of Closure					
City Certified Site As Address Street	Closure Date	State Site Ch Site Ch State State Tank Informati Closure Method Renevel	P.O. Box Zip Code Tank Capacity 3,000	SSOT Dilan Frazer Telephon	Contamination Present at the Time of Closure D					
City Certified Site As Address Street	ssessor Lan	Site Ch	P.O. Box Zip Code Tank Capacity 3,000	Substance Stored GASELIAC Diesel	Contamination Present at the Time of Closure II II Yes No Unknown Check unknown if no obvious contamination was observed					
City Certified Site As Address Street	Closure Date	Site Chay & Associate State State Tank Information Closure Method Removel 11	P.O. Box Zip Code Tank Capacity 3,000 3,000	Substance Stored Gaseline Diesel	Contamination Present at the Time of Closure Yes No Unknown Check unknown if no obvious contamination was observed and sample results have not					
City Certified Site As Address Street City Tank ID 1 2	Closure Date 9/26/11	State Site Ch State State Tank Informati Closure Method Rencevel 11	P.O. Box 2ip Code Tank Capacity 3,000 3,000 3,000	Substance Stored Gaseline Diesel Gaseline Lunknewn (Concate)	Contamination Present at the Time of Closure The Contamination Present at the Time of Closure The Contamination Was No Unknown of no obvious contamination was observed and sample results have not yet been received from					
City Certified Site As Address Street	Closure Date 9/25/15 11 11 11 11 11	State Site Ch State State Tank Informati Closure Method Removel 11 11	P.O. Box Zip Code Tank Capacity 3,000 3,000 3,000 3,000 3,000	Substance Stored Gaseline Linking (Concerte) Gaseline	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.					
City Certified Site As Address Street City Tank ID 1 2	Closure Date 9/26/11	State Site Ch State State Tank Informati Closure Method Rencevel 11	P.O. Box 2ip Code Tank Capacity 3,000 3,000 3,000	Substance Stored Gaseline Diesel Gaseline Lunknewn (Concate)	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.					
City Certified Site As Address Street City Tank ID 1 2	Closure Date 9/25/15 11 11 11 11 11	State Site Ch State State Tank Informati Closure Method Removel 11 11	P.O. Box Zip Code Tank Capacity 3,000 3,000 3,000 3,000 3,000	Substance Stored Gaseline Linking (Concerte) Gaseline	Contamination Present at the Time of Closure D					
City Certified Site As Address Street City Tank ID 1 2	Closure Date 9/25/15 11 11 11 11 11	State Site Ch State State Tank Informati Closure Method Removel 11 11	P.O. Box Zip Code Tank Capacity 3,000 3,000 3,000 3,000 3,000	Substance Stored Gaseline Linking (Concerte) Gaseline	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.					

ECY 020-94 (Rev. 2-06)

TANK DECOMMISSIONING CERTIFICATE

RE: DECOMMISSION UNDERGROUND FUEL STORAGE TANK AT: 19804 & 19806 Aurora Ave North, Shoreline, Washington (Gunderson Property)

This is to certify that Diane's Tank Removal Services, LLC, decommissioned one 300 gallon underground waste oil storage tank on October 9, 2015. The waste oil underground storage tank was pumped, rinsed and removed. The tank was properly decommissioned, pursuant to the codes, rules and guidelines established by local and state law.

Dated: October 20, 2015

Diane M Kamacho – ICC# 8057526-U2

P.O. Box 77738

Seattle, WA 98177

206-510-9497

TANK DECOMMISSIONING CERTIFICATE

RE: DECOMMISSION UNDERGROUND FUEL STORAGE TANKS AT: 19804 & 19806 Aurora Ave North. Shoreline. Washington (Gunderson Property)

This is to certify that Diane's Tank Removal Services, LLC, decommissioned one 3,000 gallon underground fuel storage tank (previously filled with concrete) and one 3,000 gallon underground gasoline storage tank, on October 7, 2015. The gasoline underground storage tank was pumped, rinsed and removed. The concrete filled underground storage tank was also removed. The tanks were properly decommissioned, pursuant to the codes, rules and guidelines established by local and state law.

Dated: October 20, 2015

Diane M Kamacho - ICC# 8057526-U2

P.O. Box 77738

Seattle, WA 98177 206-510-9497

TANK DECOMMISSIONING CERTIFICATE

RE: DECOMMISSION UNDERGROUND FUEL STORAGE TANKS AT: 19804 & 19806 Aurora Ave North, Shoreline, Washington (Gunderson Property)

This is to certify that Diane's Tank Removal Services, LLC, decommissioned one 3,000 gallon underground diesel fuel storage tank and two 3,000 gallon underground gasoline storage tanks on September 28, 2015. The tanks were pumped, rinsed and removed. The tanks were properly decommissioned, pursuant to the codes, rules and guidelines established by local and state law.

Dated: October 20, 2015

Diane M Kamacho - ICC# 8057526-U2

P.O. Box 77738

Seattle, WA 98177 206-510-9497

SOUND TESTING, INC.

PO. BOX 16204 SEATTLE, WA 98116

(206) 932-0206 FAX (206) 937-3848

MARINE CHEMIST CERTIFICATE ACKOY CEDIAL NO

WWW.SOUNDTESTINGINC.COM		SERIAL IV.	X0001
DIANG S TANK RAMOUNI	DIANCE TANK	14	Oct 15
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In the event of changes adver	sely affecting conditions in the above space all work and contact the undersigned Marine	es, or if in any doubt,	
immediately stop a Qualifications: Manipulation of valves or devices tending to alter c	all work and contact the undersigned Marine	Supplies the supplies the second to this se	ortificate will
regules re-increation and a new Certificate for spaces so affected.	All bibing, heating coils, pumps and heating foot	gaskets attached to or contained	within spaces
listed above shall be considered "NOT SAFE" unless otherwise sp	ecifically designated.		
	TANDADD CAFETY DECIGNATIONS		

(These detail the minimum conditions for Safe Entry and Hot Work.) The Marine Chemist may request additional measures if workplace conditions so dictate.

ATMOSPHERE SAFE FOR WORKERS means that in a space (a) the oxygen content is between 19.5% and 22% by volume, and (b) combustible gas is less than 10% of the Lower Explosive Limit, and (c) airborne toxic materials are within permissible concentrations as listed in OSHA's Subpart Z or in ACGIH's current list of Threshold Limit Values.

SAFE FOR HOT WORK means that (a) oxygen within the space is less than 22% by volume; and (b) the combustible gas is less than 10% of the Lower Explosive Limit; and (c) cargo residues within the space will not combust during hot work; and (d) pipes that can deliver hazardous materials to the workspace have been separated, blanked, or tocked out, and nearby hazardous spaces have been evaluated and noted on the certificate.

NOT SAFE FOR HOT WORK: In the compartment or space so designated, hot work is not permitted.

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limitations under	which it was	issued."		
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This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions

SOUND TESTING, INC.

P.O. BOX 16204 SEATTLE, WA 98116

(206) 932-0206 FAX (206) 937-3848

MARINE CHEMIST CERTIFICATE SERIAL NO 46580

Agent SEPTEMPER 29, 20
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ions in the above spaces, or if in any doubt, the undersigned Marine Chemist.
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(These detail the minimum conditions for Safe Entry and Hot Work.) The Marine Chemist may request additional measures it

ATMOSPHERE SAFE FOR WORKERS means that in a space (a) the oxygen content is between 19.5% and 22% by volume, and (b) combustible gas is less than 10% of the Lower Explosive Limit, and (c) airborne toxic materials are within permissible concentrations as listed in OSHA's Subpart Z or in ACGIH's current list of Threshold Limit Values.

SAFE FOR HOT WORK means that (a) oxygen within the space is less than 22% by volume; and (b) the combustible gas is less than 10% of the Lower Explosive Limit; and (c) cargo residues within the space will not combust during hot work; and (d) pipes that can deliver hazardous materials to the workspace have been separated, blanked, or locked out, and nearby hazardous spaces have been evaluated and noted on the certificate.

NOT SAFE FOR HOT WORK. In the compartment or space so designated, hot work is not permitted.

The undersigned acknowledges receipt of this Certificate and understands conditions and limitations under w

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions;

Laboratory Analytical Reports



September 22, 2015

Mr. Dylan Frazer Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020

Dear Mr. Frazer,

On September 21st, 1 sample was received by our laboratory and assigned our laboratory project number EV15090127. The project was identified as your Gunderson UST / 122023.070.071. 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



CLIENT:

CLIENT SAMPLE ID

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

Dylan Frazer

S1-092115

CLIENT CONTACT: **CLIENT PROJECT:**

Gunderson UST / 122023.070.071

ALS SAMPLE#: DATE RECEIVED: COLLECTION DATE:

DATE:

ALS JOB#:

09/21/2015 9/21/2015 8:25:00 AM

9/22/2015

EV15090127

EV15090127-01

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS AN	NALYSIS BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	3900	300	100	MG/KG	09/21/2015	PAB
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	330	25	1	MG/KG	09/21/2015	EBS
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	50	1	MG/KG	09/21/2015	EBS
Lead	EPA-6020	27	0.50	5	MG/KG	09/22/2015	RAL

SURROGATE	METHOD	%REC	ANALYSIS AI DATE	NALYSIS BY
TFT 100X Dilution	NWTPH-GX	3360 GS2	09/21/2015	PAB
C25	NWTPH-DX w/ SGA	94.3	09/21/2015	EBS

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

Diesel range product results biased high due to gasoline range product overlap.

GS2 - Surrogate outside of control limits due to dilution.

Chromatogram indicates that it is likely that sample contains weathered gasoline and weathered diesel.



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

DATE:

9/22/2015

ALS SDG#:

EV15090127

WDOE ACCREDITATION:

C601

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT:

Gunderson UST / 122023.070.071

LABORATORY BLANK RESULTS

MBG-091715S2 - Batch 97181 - Soil by NWTPH-GX

REPORTING

ANALYSIS

ANALYSIS

ANALYTE TPH-Volatile Range (C7-C12)

METHOD **NWTPH-GX** RESULTS QUAL UNITS

MG/KG

LIMITS

DATE 09/17/2015

BY PAB

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

MB-091715S - Batch 97179 - Soil by NWTPH-DX

				REPORTING	ANALYSIS	ANALYSIS	
METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY	
NWTPH-DX	U		MG/KG	25	09/17/2015	EBS	
NWTPH-DX	U		MG/KG	50	09/17/2015	EBS	
	NWTPH-DX	NWTPH-DX U	NWTPH-DX U	NWTPH-DX U MG/KG	NWTPH-DX U MG/KG 25	METHODRESULTSQUALUNITSLIMITSDATENWTPH-DXUMG/KG2509/17/2015	METHOD RESULTS QUAL UNITS LIMITS DATE BY NWTPH-DX U MG/KG 25 09/17/2015 EBS

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

MB-092115S - Batch 97322 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY
Lead	EPA-6020	U		MG/KG	0.10	09/22/2015	RAL

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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

DATE: ALS SDG#:

9/22/2015 EV15090127

Edmonds, WA 98020

WDOE ACCREDITATION:

C601

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT:

Gunderson UST / 122023.070.071

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 97181 - Soil by NWTPH-GX

SPIKED COMPOUND

METHOD

%REC RPD QUAL

4

ANALYSIS DATE

ANALYSIS BY

TPH-Volatile Range (C7-C12) - BS

NWTPH-GX

88.4

09/17/2015

PAB

TPH-Volatile Range (C7-C12) - BSD

NWTPH-GX

85.0

09/17/2015

PAB

ALS Test Batch ID: 97179 - Soil by NWTPH-DX

SPIKED COMPOUND

METHOD

%REC

96.2

ANALYSIS DATE

ANALYSIS BY

RPD QUAL 10

TPH-Diesel Range (C12-C24) - BS TPH-Diesel Range (C12-C24) - BSD

NWTPH-DX NWTPH-DX

106

09/17/2015 09/17/2015 **EBS EBS**

ALS Test Batch ID: 97322 - Soil by EPA-6020

SPIKED COMPOUND

Lead - BS

Lead - BSD

METHOD EPA-6020

EPA-6020

%REC

95.9

97.5

RPD QUAL

2

ANALYSIS

ANALYSIS BY

DATE

09/22/2015 09/22/2015

RAL RAL

APPROVED BY

Laboratory Director

ALS ENVIRONMENTAL Sample Receiving Checklist

Client: Landau Associates ALS Job #: EV/S090/27
Project: <u>Gunderson UST</u> / 122023.070.07/
Received Date: 9/21/15 Received Time: 11:30 a By: 5.
Type of shipping container: Cooler \(\sum_{\text{\color}} \) Box \(\text{\color} \) Other \(\text{\color} \)
Shipped via: FedEx Ground UPS Mail Courier \(\sum \) Hand Delivered FedEx Express Patrick
Were custody seals on outside of sample? If yes, how many? Where? Outside top cooler Custody seal date: 9/21/15 Seal name: Landan
Was Chain of Custody properly filled out (ink, signed, dated, etc.)?
Did all bottles have labels?
Did all bottle labels and tags agree with Chain of Custody?
Were samples received within hold time?
Did all bottles arrive in good condition (unbroken, etc.)?
Was sufficient amount of sample sent for the tests indicated?
Was correct preservation added to samples?
If no, Sample Control added preservative to the following: Sample Number Reagent Analyte So35 high by.
Were VOA vials checked for absence of air bubbles? Bubbles present in sample #:
Temperature of cooler upon receipt: 10.1c on Cold Cool Ambient N/A
Explain any discrepancies:
Was client contacted? Who was called? By whom? Date:
Outcome of call:

LANDAU ASSOCIATES

Seattle/Edmonds (425) 778-0907 Tacoma (253) 926-2493

Spokane (509) 327-9737
Portland (503) 542-1080

Chain-of-Custody Record

	h 1
Date	A/21/15
Page _	of _

Project Contact Dylan Send Results To Dylan	increline, l u Blair Frazer Frazer,	UA /Ch Tim Sy	verson.	zation Kristi 3 No. of	San			27 15	and and and and and and and and and and	 Testing	Param	eter	Turnaround Time Standard Accelerated ASA
Sample I.D. 51 - 69 2115	9/2V15	7ime 0825	Matrix Soil	Containers	×	X	X						Allow water samples to settle, collect aliquot from clear portion NWTPH-Dx - run acid wash silica gel cleanup Analyze for EPH if no specific product identified VOC/BTEX/VPH (soil):
Special Shipment/Handling or Storage Requirements Relinquished by Signature College Frinted Name Company Landau KS Date 9/2/15 Time	mir custes	Received by	rawn (le Shaw) Als	Labor Time 11:3	,		Signa Printe Comp	any	ne	Time _			Method of Shipment Dick Up Received by Signature Printed Name Company Date Time



September 30, 2015

Mr. Dylan Frazer Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020

Dear Mr. Frazer,

On September 29th, 7 samples were received by our laboratory and assigned our laboratory project number EV15090186. The project was identified as your Gunderson USTs / 122023.070.071. 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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT: CLIENT SAMPLE ID BS-1

Gunderson USTs / 122023.070.071

DATE:

9/30/2015

ALS JOB#:

EV15090186

ALS SAMPLE#:

EV15090186-01

C601

DATE RECEIVED: **COLLECTION DATE:**

09/29/2015

WDOE ACCREDITATION:

9/29/2015 12:20:00 PM

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS AN	NALYSIS BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	U	3.0	1	MG/KG	09/30/2015	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	09/30/2015	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	09/30/2015	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	09/30/2015	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	09/30/2015	PAB
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	25	1	MG/KG	09/30/2015	EBS
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	50	1	MG/KG	09/30/2015	EBS
Lead	EPA-6020	2.4	0.50	5	MG/KG	09/30/2015	RAL

SURROGATE	METHOD	%REC	DATE BY	
TFT	NWTPH-GX	77.2	09/30/2015 F	PAB
TFT	EPA-8021	85.1	09/30/2015 F	PAB
C25	NWTPH-DX w/ SGA	93.1	09/30/2015 E	EBS

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



CLIENT: Landau Associates, Inc. DATE:

9/30/2015

130 - 2nd Ave. S.

ALS JOB#:

EV15090186

Edmonds, WA 98020 CLIENT CONTACT:

ALS SAMPLE#: DATE RECEIVED: EV15090186-02 09/29/2015

CLIENT PROJECT:

Dylan Frazer

COLLECTION DATE:

9/29/2015 12:30:00 PM

CLIENT SAMPLE ID SW-1

Gunderson USTs / 122023.070.071

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

				REPORTING	DILUTION	UNITS	ANALYSIS AN	IALYSIS	
ANALYTE	METHOD	RESULT	rs	LIMITS	FACTOR		DATE	BY	
TPH-Volatile Range (C7-C12)	NWTPH-GX	U	-	3.0	1	MG/KG	09/30/2015	PAB	
Benzene	EPA-8021	U		0.030	1	MG/KG	09/30/2015	PAB	
Toluene	EPA-8021	U		0.050	1	MG/KG	09/30/2015	PAB	
Ethylbenzene	EPA-8021	U		0.050	1 7	MG/KG	09/30/2015	PAB	
Xylenes	EPA-8021	U		0.20	1	MG/KG	09/30/2015	PAB	
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U		25	1	MG/KG	09/30/2015	EBS	
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U		50	1	MG/KG	09/30/2015	EBS	
Lead	EPA-6020	7.0		0.50	5	MG/KG	09/30/2015	RAL	

			ANALYSIS AN		
SURROGATE	METHOD	%REC	DATE	BY	
TFT	NWTPH-GX	78.9	09/30/2015	PAB	
TFT .	EPA-8021	85.1	09/30/2015	PAB	
C25	NWTPH-DX w/ SGA	97.9	09/30/2015	EBS	

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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

CLIENT CONTACT:

CLIENT PROJECT: CLIENT SAMPLE ID Dylan Frazer

Gunderson USTs / 122023.070.071 SW-2

DATE:

9/30/2015

ALS JOB#:

EV15090186

ALS SAMPLE#:

EV15090186-03 09/29/2015

DATE RECEIVED: **COLLECTION DATE:**

9/29/2015 12:50:00 PM

WDOE ACCREDITATION:

C601

SAMPLE DATA RESULTS

		O' TIVIT EL	DATIALLEGOLIO				
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS AN DATE	ALYSIS BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	4.2	3.0	1	MG/KG	09/30/2015	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	09/30/2015	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	09/30/2015	PAB
Ethylbenzene	EPA-8021	U	0.050	1 -	MG/KG	09/30/2015	PAB
Xylenes	EPA-8021	0.30	0.20	1 .	MG/KG	09/30/2015	PAB
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	25	1	MG/KG	09/30/2015	EBS
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	50	1	MG/KG	09/30/2015	EBS
Lead	EPA-6020	3.0	0.50	5	MG/KG	09/30/2015	RAL

			,	ANALYSIS ANALYSI		
SURROGATE	METHOD	%REC		DATE	BY	
TFT	NWTPH-GX	84.6		09/30/2015	PAB	
TFT	EPA-8021	90.5		09/30/2015	PAB	
C25	NWTPH-DX w/ SGA	89.7	*	09/30/2015	EBS	

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

Chromatogram indicates that it is likely that sample contains highly weathered gasoline.



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT: Gunderson USTs / 122023.070.071 CLIENT SAMPLE ID SW-3

DATE:

9/30/2015

ALS JOB#:

EV15090186

ALS SAMPLE#:

EV15090186-04

DATE RECEIVED:

09/29/2015

COLLECTION DATE:

9/29/2015 1:00:00 PM

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

			REPORTING	DILUTION	UNITS	ANALYSIS AN	IALYSIS	
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	011110	DATE	BY	
TPH-Volatile Range (C7-C12)	NWTPH-GX	U	3.0	1	MG/KG	09/30/2015	PAB	
Benzene	EPA-8021	U	0.030	1	MG/KG	09/30/2015	PAB	
Toluene	EPA-8021	U	0.050	1	MG/KG	09/30/2015	PAB	
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	09/30/2015	PAB	
Xylenes	EPA-8021	U	0.20	1	MG/KG	09/30/2015	PAB	
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	25	1	MG/KG	09/30/2015	EBS	
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	50	1	MG/KG	09/30/2015	EBS	
Lead	EPA-6020	3.5	0.50	5	MG/KG	09/30/2015	RAL	

			ANALYSIS ANALYSIS
SURROGATE	METHOD	%REC	DATE BY
TFT	NWTPH-GX	87.5	09/30/2015 PAB
TFT	EPA-8021	94.9	09/30/2015 PAB
C25	NWTPH-DX w/ SGA	92.3	09/30/2015 EBS

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



CLIENT: Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

Dylan Frazer

CLIENT CONTACT: CLIENT PROJECT: Gunderson USTs / 122023.070.071

CLIENT SAMPLE ID SW-4 ALS JOB#:

9/30/2015 EV15090186

ALS SAMPLE#:

DATE:

EV15090186-05

DATE RECEIVED:

09/29/2015

COLLECTION DATE:

9/29/2015 1:20:00 PM

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS AN DATE	NALYSIS BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	U	3.0	1	MG/KG	09/30/2015	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	09/30/2015	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	09/30/2015	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	09/30/2015	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	09/30/2015	PAB
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	25	1	MG/KG	09/30/2015	EBS
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	50	1	MG/KG	09/30/2015	EBS
Lead	EPA-6020	2.6	0.50	5	MG/KG	09/30/2015	RAL

			ANALYSIS ANA	LYSIS
SURROGATE	METHOD	%REC	DATE	BY
TFT	NWTPH-GX	92.2	09/30/2015	PAB
TFT	EPA-8021	93.0	09/30/2015	PAB
C25	NWTPH-DX w/ SGA	101	09/30/2015	EBS

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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT: Gunderson USTs / 122023.070.071 CLIENT SAMPLE ID P-1

DATE:

9/30/2015

ALS JOB#:

EV15090186

ALS SAMPLE#:

EV15090186-06

DATE RECEIVED:

09/29/2015

COLLECTION DATE:

9/29/2015 1:30:00 PM

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS AN	NALYSIS BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	U	3.0	1 1	MG/KG	09/30/2015	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	09/30/2015	PAB
Toluene	EPA-8021	U	0.050	1 -	MG/KG	09/30/2015	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	09/30/2015	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	09/30/2015	PAB
TPH-Diesel Range (C12-C24).	NWTPH-DX w/ SGA	U	36	1	MG/KG	09/30/2015	EBS
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	310	50	1	MG/KG	09/30/2015	EBS
Lead	EPA-6020	11	0.50	5	MG/KG	09/30/2015	RAL

			ANALYSIS ANAL	ANALYSIS ANALYSIS		
SURROGATE	METHOD	%REC	DATE	Υ		
TFT	NWTPH-GX	95.8	09/30/2015	PAB		
TFT .	EPA-8021	95.6	09/30/2015	PAB		
C25	NWTPH-DX w/ SGA	101	09/30/2015	EBS		

U - Analyte analyzed for but not detected at level above reporting limit. Chromatogram indicates that it is likely that sample contains lube oil.

Diesel range product reporting limits raised due to motor oil range product overlap.



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

CLIENT CONTACT: Dylan Frazer

CLIENT PROJECT:

Gunderson USTs / 122023.070.071

CLIENT SAMPLE ID SW-5 DATE:

9/30/2015

ALS JOB#:

EV15090186

ALS SAMPLE#:

EV15090186-07

DATE RECEIVED:

09/29/2015

COLLECTION DATE:

9/29/2015 2:30:00 PM

WDOE ACCREDITATION:

C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS AN DATE	NALYSIS BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	U	3.0	1	MG/KG	09/30/2015	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	09/30/2015	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	09/30/2015	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	09/30/2015	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	09/30/2015	PAB
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	25	1	MG/KG	09/30/2015	EBS
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	50	1	MG/KG	09/30/2015	EBS
Lead	EPA-6020	3.0	0.50	5	MG/KG	09/30/2015	RAL

			ANALYSIS AN	IALYSIS
SURROGATE	METHOD	%REC	DATE	BY
TFT	NWTPH-GX	85.3	09/30/2015	PAB
TFT	EPA-8021	90.2	09/30/2015	PAB
C25	NWTPH-DX w/ SGA	104	09/30/2015	EBS

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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

DATE:

9/30/2015

ALS SDG#:

EV15090186

WDOE ACCREDITATION:

C601

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT:

Gunderson USTs / 122023.070.071

LABORATORY BLANK RESULTS

MBG-092815S - Batch 97527 - Soil by NWTPH-GX

					REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	U		MG/KG	3.0	09/29/2015	PAB

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

MB-092815S - Batch 97527 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	QUAL UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY	
Benzene	EPA-8021	U	MG/KG	0.030	09/29/2015	PAB	
Toluene	EPA-8021	U	MG/KG	0.050	09/29/2015	PAB	
Ethylbenzene	EPA-8021	U	MG/KG	0.050	09/29/2015	PAB	
Xylenes	EPA-8021	U	MG/KG	0.20	09/29/2015	PAB	

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

MB-092915S - Batch 97605 - Soil by NWTPH-DX

					REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY	
TPH-Diesel Range (C12-C24)	NWTPH-DX	U		MG/KG	25	09/29/2015	EBS	
TPH-Oil Range (C24-C40)	NWTPH-DX	U		MG/KG	50	09/29/2015	EBS	

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

MB-093015S - Batch 97619 - Soil by EPA-6020

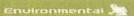
					REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY	
Lead	EPA-6020	U		MG/KG	0.10	09/30/2015	RAL	

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

Page 9

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 ALS Group USA, Corp

PHONE 425-356-2600 FAX 425-356-2626





CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

DATE:

9/30/2015

Edmonds, WA 98020

ALS SDG#: WDOE ACCREDITATION: EV15090186 C601

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT:

Gunderson USTs / 122023.070.071

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 97527 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	DATE ANALYSIS BY
TPH-Volatile Range (C7-C12) - BS	NWTPH-GX	98.8		09/29/2015 PAB
TPH-Volatile Range (C7-C12) - BSD	NWTPH-GX	97.2	2	09/29/2015 PAB

ALS Test Batch ID: 97527 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	84.5		09/29/2015	PAB
Benzene - BSD	EPA-8021	82.0	3	09/29/2015	PAB
Toluene - BS	EPA-8021	87.7		09/29/2015	PAB
Toluene - BSD	EPA-8021	85.7	2	09/29/2015	PAB
Ethylbenzene - BS	EPA-8021	96.3		09/29/2015	PAB
Ethylbenzene - BSD	EPA-8021	93.1	3	09/29/2015	PAB
Xylenes - BS	EPA-8021	95.2		09/29/2015	PAB
Xylenes - BSD	EPA-8021	91.6	4	09/29/2015	PAB

ALS Test Batch ID: 97605 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range (C12-C24) - BS	NWTPH-DX	109		09/30/2015	EBS
TPH-Diesel Range (C12-C24) - BSD	NWTPH-DX	108	1	09/30/2015	EBS

ALS Test Batch ID: 97619 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	DATE	L 1 3 13 B 1
Lead - BS	EPA-6020	100		09/30/2015	RAL
Lead - BSD	EPA-6020	101	0	09/30/2015	RAL

APPROVED BY

Laboratory Director

ALS ENVIRONMENTAL Sample Receiving Checklist

Client: <u>Landan Associates</u> ALS Job#:	EV15090186
Project: Gunderson USTs	·
Received Date: 92915 Received Time: 4:00	Ву: <u>/</u>
Type of shipping container: Cooler Box Other	
Shipped via: FedEx Ground UPS Mail Courier FedEx Express	ALS Hand Delivered
Were custody seals on outside of sample? If yes, how many? Where? The Custody seal date: 42% Seal name: Landon Associates	Yes <u>No N/A</u>
Was Chain of Custody properly filled out (ink, signed, dated, etc.)?	
Did all bottles have labels?	<u> </u>
Did all bottle labels and tags agree with Chain of Custody?	<u>×</u>
Were samples received within hold time?	X — —
Did all bottles arrive in good condition (unbroken, etc.)?	×
Was sufficient amount of sample sent for the tests indicated?	± _ ·_
Was correct preservation added to samples?	<u>x</u> ·
If no, Sample Control added preservative to the following: Sample Number Reagent Analyte	5035 bw kits
Were VOA vials checked for absence of air bubbles? Bubbles present in sample #:	
Temperature of cooler upon receipt: 5.9°C Cold Coo	ol Ambient N/A
Explain any discrepancies:	•
Was client contacted? Who was called? By whom Outcome of call:	n? Date:

EV15090186



X	Seattle/Edmonds (425) 778-0907
	Tacoma (253) 926-2493
	Spokane (509) 327-9737
\Box	Postland (502) 5/2-1020

Chain-of-Custody Record

Date_	9	/29	15		
Page .		1	of	1	

ſ	Project Name GunderSon U	STS	Project No.	12202	3 . 070.	07	,		7		Te	esting	Paramet	ters /
	Project Location/Event Shouling	WAL Cox	Gemat	in Szi	noting			- /	$\overline{}$	$\overline{///}$	$\overline{\mathcal{I}}$	//	77	Turnaround Time
1	Sampler's Name Cellene 1812				7-8				√.	10/	/ /	′ /	/ /	☐ Standard
- [/ Ñ	3			/ /		/ /
-	Project Contact Dylan Frag	yese o	· ·	. "				> /;	د/ کا	V 1//	/ /	/ /	/- /-	/// x-ASAP
1	Send Results To Dylan Frages	Tim S	yverson,	Amhr H	abversa	ን <i>/</i>	\{\bar{\pi}\}	Y &	7 (Q			/ /		' / /
-	Sample I.D.	Date	Time	Matrix	No. of Containers	/ ₹	ᢟ.	The state of	9 /	S A	/ /	/ /·		Observations/Comments
╸┠	BS-1	9/29/15		Soil	4	X	V	X	X		1			
_	Sw-I	1/2///	1230	1	и.	X	$\frac{\Delta}{\mathbf{x}}$	X	1					X Allow water samples to settle, collect aliquot from clear portion
}	5W-2	1	1250		4	X	Y	X	X				_	
1	5W-3	<u> </u>	1300		u	X	X	X	×					NWTPH-Dx - run acid wash silica gel cleanup
;	SW-4		1320		H	X	X	X	X					Analyze for EPH if no specific product
; [0-1		1330		4	X	X	X	×					Identified
, [SW-5	y	1430	<u> </u>	4	X	X	X	X					VOC/BTEX/VPH.(soil):
			_											non-preserved
						<u> </u>								X preserved w/methanol
						ļ								preserved w/sodium bisulfate
ļ			•		ļ		•				_ _			Freeze upon receipt
ļ			-		1			-			_	+ 1	_	Dissolved metal water samples field filtered
ļ				····							_	1	4	Other
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	Special Shipment/Handling or Storage Requirements	on ic	2											Method of Shipment Pick-up
ſ	Relinquished by		Received by					Re	elinq	uished by				Received by
	Signature July 24		Signature 4	X Sa	<u>~</u>			Sig	gnatu	re				Signature
	Printed Name Coone Blair	۷	Printed Name	201	Baga			Pr	inted	Name				Printed Name
	Company Land 2 u Associates Company ALS Date 9/29/15 Time 1455 Date 9/29/15 Time 4:00					Company					Company			
	Date 9/29/15 Time 145	<u>5</u> :	Date	29/15	Time	00	_	•						Date Time



October 1, 2015

Mr. Dylan Frazer Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020

Dear Mr. Frazer,

On September 30th, 3 samples were received by our laboratory and assigned our laboratory project number EV15090191. The project was identified as your Gunderson USTs / 122023.070.071. 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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

CLIENT CONTACT:

CLIENT SAMPLE ID

Dylan Frazer

BS-2

CLIENT PROJECT:

Gunderson USTs / 122023.070.071

WDOE ACCREDITATION:

DATE:

10/1/2015

EV15090191

ALS JOB#: ALS SAMPLE#:

COLLECTION DATE:

EV15090191-01

DATE RECEIVED: 09/30/2015

C601

9/30/2015 8:30:00 AM

SAMPLE DATA RESULTS

		O' 11111 ==	PITTILOULIO			The same of the sa	
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS AN DATE	NALYSIS BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	U	3.0	1	MG/KG	09/30/2015	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	09/30/2015	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	09/30/2015	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	09/30/2015	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	09/30/2015	PAB
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	25	1	MG/KG	09/30/2015	EBS
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	50	1	MG/KG	09/30/2015	EBS
Lead	EPA-6020	2.3	0.50	5	MG/KG	09/30/2015	RAL

SURROGATE	METHOD	%REC	ANALYSIS ANALYSIS DATE BY
TFT	NWTPH-GX	102	09/30/2015 PAB
TFT	EPA-8021	103	09/30/2015 PAB
C25	NWTPH-DX w/ SGA	88.3	09/30/2015 EBS

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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

DATE: ALS JOB#: 10/1/2015 EV15090191

Edmonds, WA 98020

ALS SAMPLE#:

EV15090191-02

CLIENT CONTACT:

Dylan Frazer

DATE RECEIVED:

09/30/2015

CLIENT PROJECT:

Gunderson USTs / 122023.070.071

COLLECTION DATE:

9/30/2015 9:15:00 AM

CLIENT SAMPLE ID

BS-3

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

									-
ANALYTE	METHOD	RESULT	S	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS AN	NALYSIS BY	
TPH-Volatile Range (C7-C12)	NWTPH-GX	U		3.0	1	MG/KG	09/30/2015	PAB	
Benzene	EPA-8021	· U		0.030	1	MG/KG	09/30/2015	PAB	
Toluene	EPA-8021	U		0.050	1	MG/KG	09/30/2015	PAB	
Ethylbenzene	EPA-8021	U		0.050	1	MG/KG	09/30/2015	PAB	
Xylenes	EPA-8021	U		0.20	1	MG/KG	09/30/2015	PAB	
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U		25	1	MG/KG	09/30/2015	EBS	
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U		50	1 -	MG/KG	09/30/2015	EBS	
Lead	EPA-6020	2.1		0.50	5	MG/KG	09/30/2015	RAL	

			ANALYSIS A	NALYSIS
SURROGATE	METHOD	%REC	DATE	ВУ
TFT	NWTPH-GX	101	09/30/2015	PAB
TFT	EPA-8021	99.6	09/30/2015	PAB
C25	NWTPH-DX w/ SGA	96.2	09/30/2015	EBS

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



CLIENT: Landau Associates, Inc.

DATE:

10/1/2015

130 - 2nd Ave. S.

ALS JOB#:

EV15090191

Edmonds, WA 98020

SW-6

ALS SAMPLE#:

EV15090191-03

CLIENT CONTACT: Dylan Frazer

DATE RECEIVED:

09/30/2015

CLIENT PROJECT: CLIENT SAMPLE ID Gunderson USTs / 122023.070.071

COLLECTION DATE:

9/30/2015 9:30:00 AM

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS AN DATE	IALYSIS BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	U	3.0	1	MG/KG	09/30/2015	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	09/30/2015	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	09/30/2015	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	09/30/2015	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	09/30/2015	PAB
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	25	1	MG/KG	09/30/2015	EBS
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	50	1	MG/KG	09/30/2015	EBS
Lead	EPA-6020	4.4	0.50	5	MG/KG	09/30/2015	RAL

			ANALYSIS ANALYS	SIS
SURROGATE	METHOD	%REC	DATE BY	
TFT	NWTPH-GX	104	09/30/2015 PA	AB
TFT	EPA-8021	98.9	09/30/2015 PA	AB
C25	NWTPH-DX w/ SGA	82.3	09/30/2015 EB	BS

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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

ALS SDG#:

DATE:

10/1/2015

Edmonds, WA 98020

WDOE ACCREDITATION:

EV15090191 C601

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT:

Gunderson USTs / 122023.070.071

LABORATORY BLANK RESULTS

MBG-092815S - Batch 97527 - Soil by NWTPH-GX

					REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	U		MG/KG	3.0	09/29/2015	PAB

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

MB-092815S - Batch 97527 - Soil by EPA-8021

ANALYTE Benzene	METHOD EPA-8021	RESULTS	QUAL	UNITS MG/KG	REPORTING LIMITS 0.030	ANALYSIS DATE 09/29/2015	ANALYSIS BY PAB	
Toluene	EPA-8021	U		MG/KG	0.050	09/29/2015	PAB	
Ethylbenzene	EPA-8021	U		MG/KG	0.050	09/29/2015	PAB	
Xylenes	EPA-8021	U		MG/KG	0.20	09/29/2015	PAB	

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

MB-092915S - Batch 97605 - Soil by NWTPH-DX

					REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY	
TPH-Diesel Range (C12-C24)	NWTPH-DX	U		MG/KG	25	09/29/2015	EBS	
TPH-Oil Range (C24-C40)	NWTPH-DX	U		MG/KG	50	09/29/2015	EBS	

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

MB-093015S - Batch 97619 - Soil by EPA-6020

					REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY	
Lead	EPA-6020	U		MG/KG	0.10	09/30/2015	RAL	

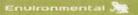
U - Analyte analyzed for but not detected at level above reporting limit.

Page 5

ALS Group USA, Corp

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208

PHONE 425-356-2600 FAX 425-356-2626





CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

ALS SDG#: WDOE ACCREDITATION:

DATE:

10/1/2015 EV15090191

C601

Edmonds, WA 98020 CLIENT CONTACT: Dylan Frazer

CLIENT PROJECT:

Gunderson USTs / 122023.070.071

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 97527 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	DATE ANALYSIS BY
TPH-Volatile Range (C7-C12) - BS	NWTPH-GX	98.8		09/29/2015 PAB
TPH-Volatile Range (C7-C12) - BSD	NWTPH-GX	97.2	2	09/29/2015 PAB

ALS Test Batch ID: 97527 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	ANALYSIS A DATE	ANALYSIS BY
Benzene - BS	EPA-8021	84.5		09/29/2015	PAB
Benzene - BSD	EPA-8021	82.0	3	09/29/2015	PAB
Toluene - BS	EPA-8021	87.7		09/29/2015	PAB
Toluene - BSD	EPA-8021	85.7	2	09/29/2015	PAB
Ethylbenzene - BS	EPA-8021	96.3		09/29/2015	PAB
Ethylbenzene - BSD	EPA-8021	93.1	3	09/29/2015	PAB
Xylenes - BS	EPA-8021	95.2		09/29/2015	PAB
Xylenes - BSD	EPA-8021	91.6	4	09/29/2015	PAB

ALS Test Batch ID: 97605 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range (C12-C24) - BS	NWTPH-DX	109		09/30/2015	EBS
TPH-Diesel Range (C12-C24) - BSD	NWTPH-DX	108	1	09/30/2015	EBS

ALS Test Batch ID: 97619 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	ANALYSIS DATE	ANALYSIS BY
Lead - BS	EPA-6020	100		09/30/2015	RAL
Lead - BSD	EPA-6020	101	0	09/30/2015	RAL

APPROVED BY

Laboratory Director

X	Seattle/Edmonds (425) 778-0907
	Tacoma (253) 926-2493
	Spokane (509) 327-9737
	Portland (503) 542-1080

Chain-of-Custody Record

eV150	9019	t]			
•	Date	9/30	15		 .
	Domo		of	1	

Γ	Project Name Calunderson USIS	Drainet No. 1	22/23	670 070	1			7			Tes	ting	Paran	eters	
	Project Location/Event Storeline, MA	Confession	 	to Pinc	<u> </u>		_ /			7	7		7	7:/	Turnaround Time
	Sampler's Name Clane Black	V · · · · · · ·	î	10			/ ,	/.	\ <u>`</u>				/ /		Standard .
İ			j			/	net/1	(3)∕		/ /	/ /	' /		/ /	☐ Accelerated
	Project Contact Dylan Frazer		1, 4		_		%						/ /		/ / & ASAP
	Send Results To Dylan Frezer: Two Syve	kan india	HALVER	<u> 9n</u> .		<i>\$</i> }	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	V	65° /	/. /				/ /	/ /
	Sample I.D. Date	Time	ļ Matrix (No. of Containers	/₹		of the second	<i>Y</i>	7 <u>/</u>		<u>/</u> .,		//		Observations/Comments ·
1	BS-2 9/30/15	0830	Sil	7	X	X	X	X							X Allow water samples to settle, collect
2	35-3 9/30/15		انه	4	X		X								aliquot from clear portion
3	5N-6 9/30/15	0930	501)	4	X	X	X	X	_	-					XNWTPH-Dx - run acid wash silica gel cleanup
-	· · · · · · · · · · · · · · · · · · ·		!						 -	+			-		Analyze for EPH if no specific product
-			!			<u>. </u>				<u> </u>					identified
			<u> </u>							1				_	VOC/BTEX/VPH (soil):
			<u> </u>				_		-			•	_	_	non-preserved
-			<u>i</u>				-			╂			_	•	preserved w/methanol
-			.				-		-	 					preserved w/sodium bisulfate
ŀ		- '								+-				-	Freeze upon receipt
╌├			· !				-			-				1	Dissolved metal water samples field filtered
ŀ				<u>. </u>			_						-		Other
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	Special Shipment/Handling or Storage Requirements ON iCC														Method of Shipment
Ţ	Relinquished by	Received by			_		Rel	linqu	ished by		•		_		Received by
	Signature W-7 W-	Signature	9	-			Sigr	natur	e						Signature
	Printed Name Celene Blaik	Printed Name	GCIA	<u> </u>			į.		Name						Printed Name
"	Company London Association	CompanyA	12				1		у						Company
	Date 1/30/15 Time 6945	Date 913	٦ _كالإ	ime 121	<u>></u>	_	Dat	:e			Tin	ne			Date Time

ALS ENVIRONMENTAL Sample Receiving Checklist

Client: (andan	ALS Job #: EV 1509 019)
Project: Gunderson USTS 122023.C	70,071
Received Date: 930 Received Time: 9	45 1210 By: RAS CCN
Type of shipping container: Cooler Box	Other
Shipped via: FedEx Ground UPS Mail FedEx Express	Courier Hand Delivered
Were custody seals on outside of sample? If yes, how many? Where? Where? Seal name: كالماء الماء ا	<u>Yes No N/A</u>
Was Chain of Custody properly filled out (ink, signed, dated,	etc.)?
Did all bottles have labels?	<u> </u>
Did all bottle labels and tags agree with Chain of Custody?	
Were samples received within hold time?	
Did all bottles arrive in good condition (unbroken, etc.)?	CN X X
Was sufficient amount of sample sent for the tests indicated?	
Was correct preservation added to samples?	
If no, Sample Control added preservative to the following: Sample Number Reagent Analyte ———————————————————————————————————	3+ 5035A 100 VC755
Were VOA vials checked for absence of air bubbles? Bubbles present in sample #:	
Temperature of cooler upon receipt: 27-C	Cold Cool Ambient N/A
Explain any discrepancies: #BS-Z MeOH MI VON Prepped.	not fully sealed, Mooth legical
Was client contacted? Who was called?	By whom? Date:
Outcome of call:	



October 9, 2015

Mr. Dylan Frazer Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020

Dear Mr. Frazer,

On October 7th, 8 samples were received by our laboratory and assigned our laboratory project number EV15100043. The project was identified as your Gunderson UST - 122023.070. 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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

CLIENT CONTACT: CLIENT PROJECT: **CLIENT SAMPLE ID** Dylan Frazer

Gunderson UST - 122023.070

BS-4

DATE:

10/9/2015

ALS JOB#:

EV15100043

ALS SAMPLE#:

EV15100043-01

DATE RECEIVED:

10/07/2015

COLLECTION DATE:

10/7/2015 1:00:00 PM

WDOE ACCREDITATION:

C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS AN DATE	NALYSIS BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	U	3.0	1	MG/KG	10/08/2015	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	10/08/2015	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	10/08/2015	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	10/08/2015	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	10/08/2015	PAB
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	25	1	MG/KG	10/08/2015	DLC
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	50	1	MG/KG	10/08/2015	DLC

SURROGATE	METHOD	%REC	ANALYSIS ANALYSIS DATE BY	3
TFT	NWTPH-GX	83.7	10/08/2015 PAB	
TFT	EPA-8021	95.4	10/08/2015 PAB	
C25	NWTPH-DX w/ SGA	97.6	10/08/2015 DLC	

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



CLIENT: Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

CLIENT CONTACT: Dylan Frazer

CLIENT PROJECT: Gunderson UST - 122023.070

CLIENT SAMPLE ID BS-5 WDOE ACCREDITATION: C601

DATE: 10/9/2015

ALS JOB#: EV15100043 EV15100043-02

ALS SAMPLE#: DATE RECEIVED: 10/07/2015

COLLECTION DATE: 10/7/2015 1:10:00 PM

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	NALYSIS BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	U	3.0	1	MG/KG	10/08/2015	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	10/08/2015	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	10/08/2015	PAB
Ethylbenzene	EPA-8021	U	0.050	1 77 77-	MG/KG	10/08/2015	PAB
Xylenes	EPA-8021	U	0.20	. 1	MG/KG	10/08/2015	PAB
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	25	1	MG/KG	10/08/2015	DLC
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	50	1	MG/KG	10/08/2015	DLC
Lead	EPA-6020	5.6	0.50	5	MG/KG	10/08/2015	RAL

			ANALYSIS A		
SURROGATE	METHOD	%REC	DATE	BY	
TFT	NWTPH-GX	78.0	10/08/2015	PAB	
TFT	EPA-8021	86.0	10/08/2015	PAB	
C25	NWTPH-DX w/ SGA	93.4	10/08/2015	DLC	

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



CLIENT: Landau Associates, Inc. DATE:

10/9/2015

130 - 2nd Ave. S.

ALS JOB#:

EV15100043

Edmonds, WA 98020

ALS SAMPLE#:

EV15100043-03

CLIENT CONTACT: Dylan Frazer

DATE RECEIVED:

10/07/2015

CLIENT PROJECT:

Gunderson UST - 122023.070

COLLECTION DATE:

10/7/2015 1:20:00 PM

CLIENT SAMPLE ID SW-7

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS AN DATE	NALYSIS BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	U	3.0	1	MG/KG	10/08/2015	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	10/08/2015	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	10/08/2015	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	10/08/2015	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	10/08/2015	PAB
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	25	1	MG/KG	10/08/2015	DLC
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	50	1	MG/KG	10/08/2015	DLC

SURROGATE	METHOD	%REC	DATE BY
TFT	NWTPH-GX	78.3	10/08/2015 PAB
TFT	EPA-8021	83.6	10/08/2015 PAB
C25	NWTPH-DX w/ SGA	90.5	10/08/2015 DLC

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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT: CLIENT SAMPLE ID

Gunderson UST - 122023.070

SW-8

DATE:

10/9/2015

ALS JOB#:

EV15100043

ALS SAMPLE#:

EV15100043-04

DATE RECEIVED:

10/07/2015

COLLECTION DATE:

10/7/2015 1:30:00 PM

WDOE ACCREDITATION:

C601

SAMPLE DATA RESULTS

			REPORTING	DILUTION	UNITS	ANALYSIS AN	ALYSIS
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR		DATE	BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	U	3.0	1	MG/KG	10/08/2015	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	10/08/2015	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	10/08/2015	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	10/08/2015	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	10/08/2015	PAB
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	25	1	MG/KG	10/08/2015	DLC
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	94	50	1	MG/KG	10/08/2015	DLC

		ANALYSIS AI	ANALYSIS ANALYSIS		
SURROGATE	METHOD	%REC	DATE	BY	
TFT	NWTPH-GX	111	10/08/2015	PAB	
TFT	EPA-8021	118	10/08/2015	PAB	
C25	NWTPH-DX w/ SGA	103	10/08/2015	DLC	

U - Analyte analyzed for but not detected at level above reporting limit. Chromatogram indicates that it is likely that sample contains lube oil.



CLIENT: Landau Associates, Inc. DATE:

10/9/2015

130 - 2nd Ave. S.

ALS JOB#:

EV15100043

Edmonds, WA 98020

ALS SAMPLE#:

EV15100043-05 10/07/2015

CLIENT CONTACT:

Dylan Frazer Gunderson UST - 122023.070

DATE RECEIVED: COLLECTION DATE:

10/7/2015 1:40:00 PM

CLIENT PROJECT: CLIENT SAMPLE ID

SP-1

WDOE ACCREDITATION:

C601

SAMPLE DATA RESULTS

			REPORTING	DILUTION	UNITS	ANALYSIS ANALYSIS	
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR		DATE	BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	U	3.0	1	MG/KG	10/08/2015	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	10/08/2015	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	10/08/2015	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	10/08/2015	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	10/08/2015	PAB
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	25	1	MG/KG	10/08/2015	DLC
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	50	1	MG/KG	10/08/2015	DLC
Lead	EPA-6020	12	0.50	5	MG/KG	10/08/2015	RAL

			ANALYSIS ANAI	LYSIS
SURROGATE	METHOD	%REC	DATE	BY
TFT	NWTPH-GX	102	10/08/2015	PAB
TFT	EPA-8021	110	10/08/2015	PAB
C25	NWTPH-DX w/ SGA	111	10/08/2015	DLC

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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

ALS JOB#:

DATE:

10/9/2015 EV15100043

CLIENT CONTACT:

Edmonds, WA 98020 Dylan Frazer

SP-2

ALS SAMPLE#:

EV15100043-06

CLIENT PROJECT:

DATE RECEIVED: COLLECTION DATE: 10/07/2015

CLIENT SAMPLE ID

Gunderson UST - 122023.070

10/7/2015 1:50:00 PM

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS ANAL DATE B	
TPH-Volatile Range (C7-C12)	NWTPH-GX	U	3.0	1	MG/KG	10/08/2015	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	10/08/2015	PAB
Toluene	EPA-8021	U	0.050	1 ==	MG/KG	10/08/2015	PAB
Ethylbenzene	EPA-8021	U	0.050	1 -	MG/KG	10/08/2015	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	10/08/2015	PAB
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	25	1	MG/KG	10/08/2015	DLC
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	50	1	MG/KG	10/08/2015	DLC

			ANALYSIS ANALYSIS
SURROGATE	METHOD	%REC	DATE BY
TFT	NWTPH-GX	101	10/08/2015 PAB
TFT	EPA-8021	97.9	10/08/2015 PAB
C25	NWTPH-DX w/ SGA	99.8	10/08/2015 DLC

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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

Dylan Frazer

CLIENT CONTACT: CLIENT PROJECT: CLIENT SAMPLE ID

Gunderson UST - 122023.070

SP-3

DATE:

10/9/2015

ALS JOB#:

EV15100043

ALS SAMPLE#:

EV15100043-07

DATE RECEIVED:

10/07/2015

COLLECTION DATE:

10/7/2015 2:00:00 PM

WDOE ACCREDITATION:

C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS AN	IALYSIS BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	U	3.0	1	MG/KG	10/08/2015	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	10/08/2015	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	10/08/2015	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	10/08/2015	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	10/08/2015	PAB
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	25	1	MG/KG	10/08/2015	DLC
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	50	1	MG/KG	10/08/2015	DLC

			ANALYSIS ANALYSIS
SURROGATE	METHOD	%REC	DATE BY
TFT	NWTPH-GX	113	10/08/2015 PAB
TFT '	EPA-8021	109	10/08/2015 PAB
C25	NWTPH-DX w/ SGA	93.2	10/08/2015 DLC

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





CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

CLIENT CONTACT: CLIENT SAMPLE ID Dylan Frazer

Gunderson UST - 122023.070 CLIENT PROJECT: UST-4

DATE:

10/9/2015

ALS JOB#:

EV15100043

ALS SAMPLE#:

EV15100043-08

DATE RECEIVED:

10/07/2015

COLLECTION DATE:

10/7/2015 12:50:00 PM

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

			REPORTING	DILUTION	UNITS	ANALYSIS AN	IALYSIS
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	oo	DATE	BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	2300	300	100	MG/KG	10/08/2015	PAB
Benzene	EPA-8021	U	3.0	100	MG/KG	10/08/2015	PAB
Toluene	EPA-8021	U	5.0	100	MG/KG	10/08/2015	PAB
Ethylbenzene	EPA-8021	U	5.0	100	MG/KG	10/08/2015	PAB
Xylenes	EPA-8021	31	20	100	MG/KG	10/08/2015	PAB
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	U	110	1	MG/KG	10/08/2015	DLC
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	U	50	1	MG/KG	10/08/2015	DLC
Lead	EPA-6020	26	0.50	5	MG/KG	10/08/2015	RAL

				ANALYSIS ANALYSI	
SURROGATE	METHOD	%REC		DATE	BY
TFT 100X Dilution	NWTPH-GX	541 GS2		10/08/2015	PAB
TFT 100X Dilution	EPA-8021	74.0	(6)	10/08/2015	PAB
C25	NWTPH-DX w/ SGA	102		10/08/2015	DLC

U - Analyte analyzed for but not detected at level above reporting limit. GS2 - Surrogate outside of control limits due to dilution.

Diesel range product reporting limits raised due to volatile range product overlap.

Chromatogram indicates that it is likely that sample contains extremely weathered gasoline.



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

ALS SDG#:

10/9/2015

Edmonds, WA 98020

WDOE ACCREDITATION:

DATE:

EV15100043 C601

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT:

Gunderson UST - 122023.070

LABORATORY BLANK RESULTS

MB-100615S3 - Batch 97831 - Soil by NWTPH-GX

					REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	U		MG/KG	3.0	10/06/2015	PAB

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

MB-100615S3 - Batch 97831 - Soil by EPA-8021

					REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY
Benzene	EPA-8021	U		MG/KG	0.030	10/06/2015	PAB
Toluene	EPA-8021	U		MG/KG	0.050	10/06/2015	PAB
Ethylbenzene	EPA-8021	U		MG/KG	0.050	10/06/2015	PAB
Xylenes	EPA-8021	U		MG/KG	0.20	10/06/2015	PAB

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

MB-100615S - Batch 97790 - Soil by NWTPH-DX

					REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY	
TPH-Diesel Range (C12-C24)	NWTPH-DX	U		MG/KG	25	10/06/2015	DLC	
TPH-Oil Range (C24-C40)	NWTPH-DX	U		MG/KG	50	10/06/2015	DLC	

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

MB-100815S - Batch 97882 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	ANALYSIS DATE	ANALYSIS BY
Lead	EPA-6020	U		MG/KG	0.10	10/08/2015	RAL

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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

DATE:

10/9/2015

ALS SDG#: WDOE ACCREDITATION:

EV15100043 C601

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT:

Gunderson UST - 122023.070

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 97831 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range (C7-C12) - BS	NWTPH-GX	81.6		10/06/2015	PAB
TPH-Volatile Range (C7-C12) - BSD	NWTPH-GX	83.0	2	10/06/2015	PAB

ALS Test Batch ID: 97831 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	77.6		10/06/2015	PAB
Benzene - BSD	EPA-8021	82.0	6	10/06/2015	PAB
Toluene - BS	EPA-8021	80.3		10/06/2015	PAB
Toluene - BSD	EPA-8021	83.0	3	10/06/2015	PAB
Ethylbenzene - BS	EPA-8021	78.7		10/06/2015	PAB
Ethylbenzene - BSD	EPA-8021	82.0	4	10/06/2015	PAB
Xylenes - BS	EPA-8021	77.7		10/06/2015	PAB
Xylenes - BSD	EPA-8021	80.8	4	10/06/2015	PAB

ALS Test Batch ID: 97790 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range (C12-C24) - BS	NWTPH-DX	105		10/06/2015	DLC
TPH-Diesel Range (C12-C24) - BSD	NWTPH-DX	101	4	10/06/2015	DLC

ALS Test Batch ID: 97882 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	DATE ANALYSIS BY
Lead - BS	EPA-6020	94.1		10/08/2015 RAL
Lead - BSD	EPA-6020	98.0	4	10/08/2015 RAL

APPROVED BY

Laboratory Director

EV15100043



X	Seattle/Edmonds (425) 778-09
	Tacoma (253) 926-2493
	Spokane (509) 327-9737
	1 (500) 540 4000

Chain-of-Custody Record

Date_	10/7/15	_
Page) of /	

Project Location/Event						*	- /	///		Test	ting Paramete	Turnaround Time
Sampler's Name Dyw Project Contact Dww	Farrer, A.					/<) 5†/\	<u></u>	//,	//		☐ Standard ☐ Accelerated ☑ ASA-1
Send Results To Drew Sample I.D.	Date	Time	Matrix .	No. of Container	s /	1 th 3 1	THE STATE OF THE S	\$ \$\$				Observations/Comments
BS-4	10/15	1300	Soil	4	×	X	×	X				X Allow water samples to settle, collect
BS-55 SU-7		13to			メメ	X	X	-	-	-		aliquot from clear portion
Sw- 8		1330			X	X		X				✓ NWTPH-Dx - run acid wash silica gel cleanup
SP- 1		1343			1	X	X	X				Analyze for EPH if no specific product
SP-2		1350			×	X	1	x		=		identified
52-3		1400	1		X	X		X				7 .
USCH		1250	CONCHOE	1	X	X	х	X				VOC/BTEX/VPH (soil):
7		1410										
					+							Freeze upon receipt
					_				-	-		Dissolved metal water samples field filtered
					_							Other SAUZ UNLUS SAME RL
					-	-						Postrina Feed us
												EVENTED PID READURES ON
					1							US-4- OSED (WHED MARNAL FIRS, CAN
Special Shipment/Handling or Storage Requirements	1 (00th	D7 (N	<u> </u>									Method of Aus P/U WARDLAND IS,
Relinquished by		Received by	1111				Re	elinquishe	d by (Received by
ignature		Signature _	Alba	\sim		_	Sig	gnature			(4)	Signature
rinted Name Dyn Fire		Printed Name	Rick	Bago			Pr	inted Name			***	Printed Name
company LADON		Company	HLS			_	Co	mpany				Company
Date 10/115 Tim	ne 1650	Date	-7-15	Time/	6:3	0	Da	ite		Time	e	Date Time

WHITE COPY - Project File

YELLOW COPY - Laboratory

INK COPY - Client Representative

12/201



October 13, 2015

Mr. Dylan Frazer Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020

Dear Mr. Frazer,

On October 12th, 1 sample was received by our laboratory and assigned our laboratory project number EV15100066. The project was identified as your Gunderson UST / 122023.070.071. 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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

CLIENT CONTACT: CLIENT PROJECT:

CLIENT SAMPLE ID

Dylan Frazer

Gunderson UST / 122023.070.071

UST-6

DATE:

10/13/2015

ALS JOB#:

EV15100066

ALS SAMPLE#:

EV15100066-01

DATE RECEIVED: 10/12/2015 **COLLECTION DATE:**

10/9/2015 3:45:00 PM

WDOE ACCREDITATION:

C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS AND DATE	NALYSIS BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	480	30	10	MG/KG	10/12/2015	PAB
Benzene	EPA-8021	0.92	0.30	10	MG/KG	10/12/2015	PAB
Toluene	EPA-8021	7.0	0.50	10	MG/KG	10/12/2015	PAB
Ethylbenzene	EPA-8021	5.7	0.50	10	MG/KG	10/12/2015	PAB
Xylenes	EPA-8021	39	2.0	10	MG/KG	10/12/2015	PAB
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	ND	. 87	1	MG/KG	10/12/2015	DLC
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	4700	500	10	MG/KG	10/12/2015	DLC
Dichlorodifluoromethane	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
Chloromethane	EPA-8260	ND	10.	1	UG/KG	10/12/2015	DLC
Vinyl Chloride	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
Bromomethane	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
Chloroethane	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
Carbon Tetrachloride	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
Trichlorofluoromethane	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
1,1-Dichloroethene	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
Methylene Chloride	EPA-8260	ND	20	1	UG/KG	10/12/2015	DLC
Methyl T-Butyl Ether	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
Trans-1,2-Dichloroethene	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
1,1-Dichloroethane	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
Cis-1,2-Dichloroethene	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
2,2-Dichloropropane	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
Bromochloromethane	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
Chloroform	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
1,1,1-Trichloroethane	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
1,1-Dichloropropene	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
1,2-Dichloroethane	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
Trichloroethene	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
1,2-Dichloropropane	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
Dibromomethane	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
Bromodichloromethane	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
Trans-1,3-Dichloropropene	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
Cis-1,3-Dichloropropene	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
1,1,2-Trichloroethane	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
1,3-Dichloropropane	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
Tetrachloroethylene	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
Dibromochloromethane	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC
1,2-Dibromoethane	EPA-8260	ND	5.0	1	UG/KG	10/12/2015	DLC
Chlorobenzene	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC

Page 2

ALS Group USA, Corp

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208

PHONE 425-356-2600 FAX 425-356-2626





CLIENT:

CLIENT SAMPLE ID

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

Dylan Frazer

CLIENT CONTACT:

CLIENT PROJECT: Gunderson UST / 122023.070.071 UST-6

DATE:

10/13/2015

ALS JOB#:

EV15100066

ALS SAMPLE#:

EV15100066-01 10/12/2015

DATE RECEIVED: **COLLECTION DATE:**

10/9/2015 3:45:00 PM

WDOE ACCREDITATION:

C601

SAMPLE DATA RESULTS

Manager and Company of the Company		SAMELL	DATA RESOLTS					
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION	UNITS	ANALYSIS AN	NALYSIS BY	
1,1,1,2-Tetrachloroethane	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC	
Bromoform	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC	
1,1,2,2-Tetrachloroethane	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC	
1,2,3-Trichloropropane	EPA-8260	ND	10 ,	1	UG/KG	10/12/2015	DLC	
Bromobenzene	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC	
2-Chlorotoluene	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC	
4-Chlorotoluene	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC	
1,3-Dichlorobenzene	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC	
1,4-Dichlorobenzene	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC	
1,2-Dichlorobenzene	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC	
1,2-Dibromo 3-Chloropropane	EPA-8260	ND	50	1	UG/KG	10/12/2015	DLC	
1,2,4-Trichlorobenzene	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC	
Hexachlorobutadiene	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC	
1,2,3-Trichlorobenzene	EPA-8260	ND	10	1	UG/KG	10/12/2015	DLC	
Naphthalene	EPA-8270 SIM	4600	1000	50	UG/KG	10/13/2015	GAP	
2-Methylnaphthalene	EPA-8270 SIM	6700	1000	50	UG/KG	10/13/2015	GAP	
1-Methylnaphthalene	EPA-8270 SIM	4900	1000	50	UG/KG	10/13/2015	GAP	
Benzo[A]Anthracene	EPA-8270 SIM	160	20	1.	UG/KG	10/12/2015	GAP	
Chrysene	EPA-8270 SIM	110	20	1	UG/KG	10/12/2015	GAP	
Benzo[B]Fluoranthene	EPA-8270 SIM	ND	20	1	UG/KG	10/12/2015	GAP	
Benzo[K]Fluoranthene	EPA-8270 SIM	ND	20	1	UG/KG	10/12/2015	GAP	
Benzo[A]Pyrene	EPA-8270 SIM	ND	20	1	UG/KG	10/12/2015	GAP	
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	ND	20	1	UG/KG	10/12/2015	GAP	
Dibenz[A,H]Anthracene	EPA-8270 SIM	ND	20	1	UG/KG	10/12/2015	GAP	
PCB-1016	EPA-8082	ND	0.10	1	MG/KG	10/12/2015	GAP	
PCB-1221	EPA-8082	ND	0.10	1	MG/KG	10/12/2015	GAP	
PCB-1232	EPA-8082	ND	0.10	1	MG/KG	10/12/2015	GAP	
PCB-1242	EPA-8082	ND	0.10	. 1	MG/KG	10/12/2015	GAP	
PCB-1248	EPA-8082	ND	0.10	1	MG/KG	10/12/2015	GAP	
PCB-1254	EPA-8082	ND	0.10	1	MG/KG	10/12/2015	GAP	
PCB-1260	EPA-8082	ND	0.10	1	MG/KG	10/12/2015	GAP	
PCB-1268	EPA-8082	ND	0.10	1	MG/KG	10/12/2015	GAP	
Lead	EPA-6020	67	0.50	5	MG/KG	10/12/2015	RAL	

			ANALYSIS ANALYS	IS
SURROGATE	METHOD	%REC	DATE BY	
TFT 10X Dilution	NWTPH-GX	130	10/12/2015 PAI	В
TFT 10X Dilution	EPA-8021	101	10/12/2015 PAI	В
C25	NWTPH-DX w/ SGA	123	10/12/2015 DLG	C

Page 3

ALS Group USA, Corp

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208

PHONE 425-356-2600

FAX 425-356-2626

Environmental 🎘



CLIENT:

CLIENT CONTACT:

CLIENT SAMPLE ID

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

Dylan Frazer

CLIENT PROJECT: Gunderson UST / 122023.070.071

UST-6

ALS JOB#:

DATE:

10/13/2015 EV15100066

ALS SAMPLE#:

EV15100066-01

DATE RECEIVED:

10/12/2015

COLLECTION DATE:

10/9/2015 3:45:00 PM

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

			ANALYSIS ANALYS	SIS
SURROGATE	METHOD	%REC	DATE BY	
C25 10X Dilution	NWTPH-DX w/ SGA	138 DS2	10/12/2015 DL	_C
1,2-Dichloroethane-d4	EPA-8260	106	10/12/2015 DL	_C
4-Bromofluorobenzene	EPA-8260	103	10/12/2015 DL	_C
Terphenyl-d14	EPA-8270 SIM	107	10/12/2015 GA	AP
Terphenyl-d14 50X Dilution	EPA-8270 SIM	112	10/13/2015 GA	AP.
TCMX	EPA-8082	60.8	10/12/2015 GA	AP.
DCB	EPA-8082	61.3	10/12/2015 GA	AP

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

DS2 - Due to high dilution factor surrogate results should be considered uncontrolled.

Chromatogram indicates that it is likely that sample contains weathered gasoline and lube oil.

Diesel range reporting limit raised due to volatile and motor oil range product overlap.



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

DATE:

10/13/2015

ALS SDG#:

EV15100066

WDOE ACCREDITATION:

C601

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT:

Gunderson UST / 122023.070.071

LABORATORY BLANK RESULTS

MBG-100915S - Batch 97930 - Soil by NWTPH-GX

					REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY	
TPH-Volatile Range (C7-C12)	NWTPH-GX	U		MG/KG	3.0	10/09/2015	PAB	

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

MB-100915S - Batch 97930 - Soil by EPA-8021

					REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY
Benzene	EPA-8021	U		MG/KG	0.030	10/09/2015	PAB
Toluene	EPA-8021	U		MG/KG	0.050	10/09/2015	PAB
Ethylbenzene	EPA-8021	U		MG/KG	0.050	10/09/2015	PAB
Xylenes	EPA-8021	U		MG/KG	0.20	10/09/2015	PAB

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

MB-100915S - Batch 97952 - Soil by NWTPH-DX

					REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY	
TPH-Diesel Range (C12-C24)	NWTPH-DX	U		MG/KG	87	10/09/2015	DLC	
TPH-Oil Range (C24-C40)	NWTPH-DX	U		MG/KG	50	10/09/2015	DLC	

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

MB-101215S - Batch 97977 - Soil by EPA-8260

					REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY
Dichlorodifluoromethane	EPA-8260	U		UG/KG	10	10/12/2015	DLC
Chloromethane	EPA-8260	U		UG/KG	10	10/12/2015	DLC
Vinyl Chloride	EPA-8260	U		UG/KG	10	10/12/2015	DLC
Bromomethane	EPA-8260	U		UG/KG	10	10/12/2015	DLC
Chloroethane	EPA-8260	U		UG/KG	10	10/12/2015	DLC
Carbon Tetrachloride	EPA-8260	U		UG/KG	10	10/12/2015	DLC
Trichlorofluoromethane	EPA-8260	U		UG/KG	10	10/12/2015	DLC
1,1-Dichloroethene	EPA-8260	U		UG/KG	10	10/12/2015	DLC
Methylene Chloride	EPA-8260	U		UG/KG	20	10/12/2015	DLC
Methyl T-Butyl Ether	EPA-8260	U		UG/KG	10	10/12/2015	DLC
Trans-1,2-Dichloroethene	EPA-8260	U		UG/KG	10	10/12/2015	DLC
1,1-Dichloroethane	EPA-8260	U		UG/KG	10	10/12/2015	DLC
Cis-1,2-Dichloroethene	EPA-8260	U		UG/KG	10	10/12/2015	DLC
2,2-Dichloropropane	EPA-8260	U		UG/KG	10	10/12/2015	DLC
Bromochloromethane	EPA-8260	U		UG/KG	- 10	10/12/2015	DLC
Chloroform	EPA-8260	U		UG/KG	10	10/12/2015	DLC

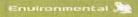
Page 5

ALS Group USA, Corp

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208

PHONE 425-356-2600

FAX 425-356-2626





CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

DATE: ALS SDG#: 10/13/2015

Edmonds, WA 98020

WDOE ACCREDITATION:

EV15100066 C601

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT:

Gunderson UST / 122023.070.071

(A) [10] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1		LABORATO	ORY BLANK RESULT	rs			
MB-101215S - Batch 97977	7 - Soil by EPA-82	60					
1,1,1-Trichloroethane	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
1,1-Dichloropropene	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
1,2-Dichloroethane	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
Trichloroethene	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
1,2-Dichloropropane	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
Dibromomethane	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
Bromodichloromethane	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
Trans-1,3-Dichloropropene	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
Toluene	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
Cis-1,3-Dichloropropene	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
1,1,2-Trichloroethane	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
1,3-Dichloropropane	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
Tetrachloroethylene	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
Dibromochloromethane	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
1,2-Dibromoethane	EPA-8260	U	UG/KG	5.0	10/12/2015	DLC	
Chlorobenzene	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
1,1,1,2-Tetrachloroethane	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
Bromoform	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
1,1,2,2-Tetrachloroethane	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
1,2,3-Trichloropropane	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
Bromobenzene	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
2-Chlorotoluene	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
4-Chlorotoluene	EPA-8260	·U	UG/KG	10	10/12/2015	DLC	
1,3-Dichlorobenzene	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
1,4-Dichlorobenzene	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
1,2-Dichlorobenzene	EPA-8260	U	UG/KG	10	10/12/2015	DLC	
1,2-Dibromo 3-Chloropropane	EPA-8260	U	UG/KG	50	10/12/2015	DLC	
1,2,4-Trichlorobenzene	EPA-8260	U	UG/KG	10	10/12/2015	DLC	

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

MB-100915S - Batch 97998 - Soil by EPA-8270 SIM

					REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY	
Naphthalene	EPA-8270 SIM	U		UG/KG	20	10/12/2015	GAP	
2-Methylnaphthalene	EPA-8270 SIM	U		UG/KG	20	10/12/2015	GAP	
1-Methylnaphthalene	EPA-8270 SIM	Ü		UG/KG	20	10/12/2015	GAP	
Benzo[A]Anthracene	EPA-8270 SIM	U		UG/KG	20	10/12/2015	GAP	
Chrysene	EPA-8270 SIM	U		UG/KG	20	10/12/2015	GAP	
Benzo[B]Fluoranthene	EPA-8270 SIM	U		UG/KG	20	10/12/2015	GAP	

UG/KG

UG/KG

Page 6

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208

EPA-8260

EPA-8260

U

U

PHONE 425-356-2600 FAX 425-356-2626

10

10

DLC

DLC

10/12/2015

10/12/2015

ALS Group USA, Corp



1,2,3-Trichlorobenzene

Hexachlorobutadiene



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

DATE: ALS SDG#: 10/13/2015

WDOE ACCREDITATION:

EV15100066 C601

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT: GL

Gunderson UST / 122023.070.071

		LABORAT	ORY BLANK RESULT	S			
MB-100915S - Batch 97	998 - Soil by EPA-827	O SIM					
Benzo[K]Fluoranthene	EPA-8270 SIM	U	UG/KG	20	10/12/2015	GAP	1.0
Benzo[A]Pyrene	EPA-8270 SIM	U	UG/KG	20	10/12/2015	GAP	
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	UG/KG	20	10/12/2015	GAP	- 1
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	UG/KG	20	10/12/2015	GAP	
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	UG/KG	20	10/12/2015	GAP	- 1

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

MBLK-262978 - Batch R262978 - Soil by EPA-8082

ANALYTE	METHOD	RESULTS	QUAL	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY	
PCB-1016	EPA-8082	U		MG/KG	0.10	10/12/2015	GAP	
PCB-1221	EPA-8082	U		MG/KG	0.10	10/12/2015	GAP	
PCB-1232	EPA-8082	U		MG/KG	0.10	10/12/2015	GAP	
PCB-1242	EPA-8082	U		MG/KG	0.10	10/12/2015	GAP	
PCB-1248	EPA-8082	U		MG/KG	0.10	10/12/2015	GAP	
PCB-1254	EPA-8082	U		MG/KG	0.10	10/12/2015	GAP	
PCB-1260	EPA-8082	U		MG/KG	0.10	10/12/2015	GAP	
PCB-1268	EPA-8082	U		MG/KG	0.10	10/12/2015	GAP	

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

MB-101215S - Batch 97964 - Soil by EPA-6020

					REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY	
Lead	EPA-6020	U		MG/KG	0.10	10/12/2015	RAL	

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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

DATE:

10/13/2015

ALS SDG#:

EV15100066

WDOE ACCREDITATION:

C601

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT:

Gunderson UST / 122023.070.071

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 97930 - Soil by NWTPH-GX

SPIKED COMPOUND METHOD

%REC RPD QUAL

ANALYSIS DATE

ANALYSIS BY

TPH-Volatile Range (C7-C12) - BS TPH-Volatile Range (C7-C12) - BSD **NWTPH-GX**

NWTPH-GX

87.3 87.8 10/09/2015 10/09/2015

ANIAI VOIC

PAB PAB

ANAL VOIC DV

ALS Test Batch ID: 97930 - Soil by EPA-8021

METHOD	%REC	RPD	QUAL	DATE	ANALYSIS BY
EPA-8021	80.5			10/09/2015	PAB
EPA-8021	81.0	1		10/09/2015	PAB
EPA-8021	85.4			10/09/2015	PAB
EPA-8021	86.0	1		10/09/2015	PAB
EPA-8021	85.3			10/09/2015	PAB
EPA-8021	86.2	1		10/09/2015	PAB
EPA-8021	85.2			10/09/2015	PAB
EPA-8021	86.1	1		10/09/2015	PAB
	EPA-8021 EPA-8021 EPA-8021 EPA-8021 EPA-8021 EPA-8021	EPA-8021 80.5 EPA-8021 81.0 EPA-8021 85.4 EPA-8021 86.0 EPA-8021 85.3 EPA-8021 86.2 EPA-8021 85.2	EPA-8021 80.5 EPA-8021 81.0 1 EPA-8021 85.4 EPA-8021 86.0 1 EPA-8021 85.3 EPA-8021 86.2 1 EPA-8021 85.2	EPA-8021 80.5 EPA-8021 81.0 1 EPA-8021 85.4 EPA-8021 86.0 1 EPA-8021 85.3 EPA-8021 86.2 1 EPA-8021 85.2	EPA-8021 80.5 10/09/2015 EPA-8021 81.0 1 10/09/2015 EPA-8021 85.4 10/09/2015 EPA-8021 86.0 1 10/09/2015 EPA-8021 85.3 10/09/2015 EPA-8021 86.2 1 10/09/2015 EPA-8021 85.2 10/09/2015

ALS Test Batch ID: 97952 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range (C12-C24) - BS	NWTPH-DX	105		10/09/2015	DLC
TPH-Diesel Range (C12-C24) - BSD	NWTPH-DX	115	9	10/09/2015	DLC

ALS Test Batch ID: 97977 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	105			10/12/2015	DLC
1,1-Dichloroethene - BSD	EPA-8260	101	4		10/12/2015	DLC
Trichloroethene - BS	EPA-8260	102			10/12/2015	DLC
Trichloroethene - BSD	EPA-8260	100	2		10/12/2015	DLC
Toluene - BS	EPA-8260	96.1			10/12/2015	DLC
Toluene - BSD	EPA-8260	93.3	3		10/12/2015	DLC
Chlorobenzene - BS	EPA-8260	91.4			10/12/2015	DLC
Chlorobenzene - BSD	EPA-8260	93.2	2		10/12/2015	DLC

ALS Test Batch ID: 97998 - Soil by EPA-8270 SIM

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	DATE	ANALYSIS BY
Naphthalene - BS	EPA-8270 SIM	105		10/12/2015	GAP
Naphthalene - BSD	EPA-8270 SIM	75.9	32	10/12/2015	GAP
Benzo[G,H,I]Perylene - BS	EPA-8270 SIM	129		10/12/2015	GAP

Page 8

ALS Group USA, Corp

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208

PHONE 425-356-2600 FAX 425-356-2626

Environmental 🗦

www.alsglobal.com



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

WDOE ACCREDITATION:

10/13/2015

ALS SDG#:

DATE:

EV15100066

C601

CLIENT CONTACT: Dylan Frazer

CLIENT PROJECT:

Gunderson UST / 122023.070.071

LABORATORY CONTROL SAMPLE RESULTS

CDIVED COMPOUND	METHOD	%REC RPD QUAL		IIAI	ANALYSIS DATE	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	KPD Q	UAL	DAIL	
Benzo[G,H,I]Perylene - BSD	EPA-8270 SIM	92.0	34		10/12/2015	GAP

ALS Test Batch ID: R262978 - Soil by EPA-8082

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY	
PCB-1016 - BS	EPA-8082	132			10/12/2015	GAP	
PCB-1016 - BSD	EPA-8082	132	0		10/12/2015	GAP	
PCB-1260 - BS	EPA-8082	158		SQ1	10/12/2015	GAP	
PCB-1260 - BSD	EPA-8082	158	0	SQ1	10/12/2015	GAP	

SQ1 - Spike outside of control limits with a high bias. Associated compounds non-detect. No corrective action taken.

ALS Test Batch ID: 97964 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	DATE	
Lead - BS	EPA-6020	102		10/12/2015 RAL	
Lead - BSD	EPA-6020	104	2	10/12/2015 RAL	

APPROVED BY

Laboratory Director

LANDAU ASSOCIATES

Seattle/Edmonds (425) 778-0907

☐ Tacoma (253) 926-2493 ☐ Spokane (509) 327-9737 ☐ Portland (503) 542-1080

Chain-of-Custody Record

d Date 10/09/2015

																<u> </u>
Project Name GUNDERSON								[.			7	[esti	ing l	Para	mete	rs
Project Location/Event SHOPEL	INE WA	+ /CHA	ract er	GOTAS	SAM	IPLE	5/	/	. 7	7		₁ ,/	7		. T	/// Turnaround Time
Sampler's Name MATT M	ORONE	Y				-			/ ,	/ ;	[26]	"	Ϊ,	/::	/ /	/ / Turnaround Time ☐ Standard
Project Contact DYLAN, F	PAZET	<u>.</u>	<u> </u>			1		/ /		Λ				\$4 7		Accelerated
Send Results To STLAN FR	475D	- /vus	a South	oile. Cuus	- т2	/.	h	0	Ki i			/ \5/			/ `/	/ / / B ASAD
Send Results To Trans Pa	nece je	THAT DIAC	10,00			# C	Z / 2		1/2	}}	A.	16		ďχ	J. 4.	/ /
Sample I.D.	Date	Time	Matrix	No. of Containers	105	/2	1/2				/ <u>\`</u> .	\$		<u>/-</u>	7 4	Observations/Comments
V57-6	10/09/15	1545	SOIL	4	×	*	×	X	× .	<u> </u>	4 7	()	1	2		V.
											٠.					X Allow water samples to settle, collect aliquot from clear portion
	-	-		<u> </u>				•	.		_ _	_	\perp			✓ NWTPH-Dx - run acid wash silica gel cleanup
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ua.			<u> </u>		•	. •	•		+	+	-	+	_		$-\!$	Analyze for EPH if no specific product identified
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·		_	<u> </u>			-			+	•	-	+-		-+	•	VOC/BTEX/VPH (soil):
											+		+		-	non-preserved
			<u>-</u>							\top			-	-	\dashv	preserved w/methanol
A September 1							•		-	\exists					٦.	preserved w/sodium bisulfate
							-									Freeze upon receipt
								·				,,				Dissolved metal water samples field filtered
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Special Shipment/Handling or Storage Requirements		• *	; .	- :							٠					Method of Shipment Rick of
Relinquished by		Received by	110	1.2		İ	Re	linqui	shed	by						Received by
Signature M M		Signature	FA (Dog	<u> </u>	·.		Sigi	nature	· · ·	· · ·			_		-, -	Signature
Printed Name MATT MORON	<u> </u>	Printed Name _	Kick L	Sagan	•	_	Prir	nted N	ame :	• '.	•					Printed Name
Company LANDAU ASSOCIAT		Company	المنا	, 			Cor	mpany	<u>. </u>	<u> </u>						Company
Date 10/09/2015 Time 161	5 ::	Date	6-15	Time <u>4:5</u>	<u>5 i</u>	()	Dat	te	· _		`٦	Time	<u></u>			Date Time :

ALS ENVIRONMENTAL Sample Receiving Checklist

Client: Landan Associates ALS Job#: EV15100066
Project: Gunderson UST
Received Date: 10/15 Received Time: 9:55 AM By: 4B Type of shipping container: Cooler X Box Other
Type of shipping container: Cooler X Box Other
Shipped via: FedEx Ground UPS Mail Courier ALS Hand Delivered FedEx Express
Were custody seals on outside of sample? If yes, how many? Custody seal date: 10/1/5 Seal name: Landan
Was Chain of Custody properly filled out (ink, signed, dated, etc.)?
Did all bottles have labels?
Did all bottle labels and tags agree with Chain of Custody?
Were samples received within hold time?
Did all bottles arrive in good condition (unbroken, etc.)?
Was sufficient amount of sample sent for the tests indicated?
Was correct preservation added to samples?
If no, Sample Control added preservative to the following: Sample Number Reagent Analyte
Were VOA vials checked for absence of air bubbles? Bubbles present in sample #:
Temperature of cooler upon receipt: 5.4° c Cold Cool Ambient N/A
Explain any discrepancies:
Was client contacted? Who was called? By whom? Date:
Outcome of call:



October 22, 2015

Mr. Dylan Frazer Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020

Dear Mr. Frazer,

On October 16th, 4 samples were received by our laboratory and assigned our laboratory project number EV15100104. The project was identified as your Gunderson UST / #122023.070.071. 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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

CLIENT CONTACT: CLIENT PROJECT:

Dylan Frazer

Gunderson UST / #122023.070.071

CLIENT SAMPLE ID **SW-9** DATE:

10/22/2015

ALS JOB#:

EV15100104

ALS SAMPLE#:

EV15100104-01

DATE RECEIVED:

10/16/2015

COLLECTION DATE:

10/16/2015 12:20:00 PM

WDOE ACCREDITATION:

C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION	UNITS	ANALYSIS A DATE	NALYSIS BY	
TPH-Volatile Range (C7-C12)	NWTPH-GX	ND	20	1	MG/KG	10/19/2015	PAB	
Benzene	EPA-8021	ND	0.030	1	MG/KG	10/19/2015	PAB	
Toluene	EPA-8021	ND	0.050	1	MG/KG	10/19/2015	PAB	
Ethylbenzene	EPA-8021	ND	0.050	1	MG/KG	10/19/2015	PAB	
Xylenes	EPA-8021	ND	0.20	1	MG/KG	10/19/2015	PAB	
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	150	25	1	MG/KG	10/16/2015	DLC	
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	16000	1000	20	MG/KG	10/19/2015	DLC	
Naphthalene	EPA-8270 SIM	51	20	1	UG/KG	10/19/2015	GAP	
2-Methylnaphthalene	EPA-8270 SIM	81	20	1	UG/KG	10/19/2015	GAP	
1-Methylnaphthalene	EPA-8270 SIM	99	20	1	UG/KG	10/19/2015	GAP	
Benzo[A]Anthracene	EPA-8270 SIM	29	20	1	UG/KG	10/19/2015	GAP	
Chrysene	EPA-8270 SIM	88	20	1	UG/KG	10/19/2015	GAP	
Benzo[B]Fluoranthene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP	
Benzo[K]Fluoranthene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP	
Benzo[A]Pyrene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP	
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP	
Dibenz[A,H]Anthracene	EPA-8270 SIM	ND	20	. 1	UG/KG	10/19/2015	GAP	
Lead	EPA-6020	6.8	0.50	5	MG/KG	10/22/2015	RAL	

			AITAL I DIO AI	THE ! OIL
SURROGATE	METHOD	%REC	DATE	BY
TFT	NWTPH-GX	77.4	10/19/2015	PAB
TFT	EPA-8021	70.6	10/19/2015	PAB
C25	NWTPH-DX w/ SGA	119	10/16/2015	DLC
C25 20X Dilution	NWTPH-DX w/ SGA	174 GS2	10/19/2015	DLC
Terphenyl-d14	EPA-8270 SIM	99.6	 10/19/2015	GAP
				_

U - Analyte analyzed for but not detected at level above reporting limit. GS2 - Surrogate outside of control limits due to dilution.

Gasoline range reporting limit raised due to semivolatile range product overlap.

Chromatogram indicates that it is likely that sample contains weathered diesel 1 and lube oil.



CLIENT: Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

CLIENT CONTACT: Dylan Frazer

CLIENT PROJECT: Gunderson UST / #122023.070.071

CLIENT SAMPLE ID BS-6 DATE:

10/22/2015

ALS JOB#:

EV15100104

ALS SAMPLE#:

EV15100104-02

DATE RECEIVED:

10/16/2015

COLLECTION DATE:

10/16/2015 12:40:00 PM

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	ND	3.0	1	MG/KG	10/16/2015	PAB
Benzene	EPA-8021	ND	. 0.030	1	MG/KG	10/16/2015	PAB
Toluene	EPA-8021	ND	0.050	1	MG/KG	10/16/2015	PAB
Ethylbenzene	EPA-8021	ND	0.050	1	MG/KG	10/16/2015	PAB
Xylenes	EPA-8021	ND	0.20	1	MG/KG	10/16/2015	PAB
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	ND	25	1	MG/KG	10/16/2015	DLC
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	ND	50	1	MG/KG	10/16/2015	DLC
Naphthalene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP
2-Methylnaphthalene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP
1-Methylnaphthalene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP
Benzo[A]Anthracene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP
Chrysene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP
Benzo[B]Fluoranthene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP
Benzo[K]Fluoranthene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP
Benzo[A]Pyrene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	ND	20	1	ŲG/KG	10/19/2015	GAP
Lead	EPA-6020	15	0.50	5	MG/KG	10/22/2015	RAL

SURROGATE			ANALYSIS ANALYSI		
	METHOD	%REC	DATE	BY	
TFT	NWTPH-GX	104	10/16/2015	PAB	
TFT	EPA-8021	95.1	10/16/2015	PAB	
C25	NWTPH-DX w/ SGA	121	10/16/2015	DLC	
Terphenyl-d14	EPA-8270 SIM	99.9	10/19/2015	GAP	

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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

ALS JOB#:

10/22/2015

Edmonds, WA 98020

ALS SAMPLE#:

DATE:

EV15100104 EV15100104-03

CLIENT CONTACT:

Dylan Frazer

DATE RECEIVED:

10/16/2015

CLIENT PROJECT:

Gunderson UST / #122023.070.071

COLLECTION DATE:

10/16/2015 1:00:00 PM

CLIENT SAMPLE ID

SW-10

WDOE ACCREDITATION:

C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	15	3.0	1	MG/KG	10/16/2015	PAB
Benzene	EPA-8021	ND	0.030	1	MG/KG	10/16/2015	PAB
Toluene	EPA-8021	ND	0.050	1	MG/KG	10/16/2015	PAB
Ethylbenzene	EPA-8021	0.058	0.050	1	MG/KG	10/16/2015	PAB
Xylenes	EPA-8021	0.34	0.20	1	MG/KG	10/16/2015	PAB
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	ND	25	1	MG/KG	10/16/2015	DLC
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	420	50	1	MG/KG	10/16/2015	DLC
Naphthalene	EPA-8270 SIM	33	20	1	UG/KG	10/19/2015	GAP
2-Methylnaphthalene	EPA-8270 SIM	64	20	1	UG/KG	10/19/2015	GAP
1-Methylnaphthalene	EPA-8270 SIM	44	20	1	UG/KG	10/19/2015	GAP
Benzo[A]Anthracene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP
Chrysene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP
Benzo[B]Fluoranthene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP
Benzo[K]Fluoranthene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP
Benzo[A]Pyrene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	ND	20	1 -	UG/KG	10/19/2015	GAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP GAP
Lead	EPA-6020	14	0.50	5	MG/KG	10/22/2015	RAL

			ANALYSIS A	NALYSIS
SURROGATE	METHOD	%REC	DATE	BY
TFT	NWTPH-GX	102	10/16/2015	PAB
TFT	EPA-8021	96.1	10/16/2015	PAB
C25	NWTPH-DX w/ SGA	132	10/16/2015	DLC
Terphenyl-d14	EPA-8270 SIM	101	10/19/2015	GAP

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

Chromatogram indicates that it is likely that sample contains highly weathered gasoline and lube oil.



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

CLIENT CONTACT: Dylan

Dylan Frazer

CLIENT PROJECT: Gunderson UST / #122023.070.071
CLIENT SAMPLE ID SW-11

DATE:

10/22/2015

ALS JOB#:

EV15100104

ALS SAMPLE#:

EV15100104-04

DATE RECEIVED:

10/16/2015

COLLECTION DATE:

10/16/2015 1:10:00 PM

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

Market Home and the search wealth		SAIVII LL	DATA NEGULIO		CALL SHEET STREET			
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS AN DATE	ALYSIS BY	
TPH-Volatile Range (C7-C12)	NWTPH-GX	ND	3.0	1	MG/KG	10/16/2015	PAB	
Benzene	EPA-8021	ND	0.030	1	MG/KG	10/16/2015	PAB	
Toluene	EPA-8021	ND	0.050	1	MG/KG	10/16/2015	PAB	
Ethylbenzene	EPA-8021	ND	0.050	1	MG/KG	10/16/2015	PAB	
Xylenes	EPA-8021	ND	0.20	1	MG/KG	10/16/2015	PAB	
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	ND	25	1	MG/KG	10/16/2015	DLC	
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	ND	50	1	MG/KG	10/16/2015	DLC	
Naphthalene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP	
2-Methylnaphthalene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP	
1-Methylnaphthalene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP	
Benzo[A]Anthracene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP	
Chrysene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP	
Benzo[B]Fluoranthene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP	
Benzo[K]Fluoranthene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP	
Benzo[A]Pyrene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP	
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP	
Dibenz[A,H]Anthracene	EPA-8270 SIM	ND	20	1	UG/KG	10/19/2015	GAP	
Lead	EPA-6020	14	0.50	5	MG/KG	10/22/2015	RAL	

			ANALYSIS ANALYSIS		
SURROGATE	METHOD	%REC	DATE	BY	
TFT	NWTPH-GX	101	10/16/2015	PAB	
TFT	EPA-8021	93.9	10/16/2015	PAB	
C25	NWTPH-DX w/ SGA	140	10/16/2015	DLC	
Terphenyl-d14	EPA-8270 SIM	121	10/19/2015	GAP	

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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

DATE:

10/22/2015

ALS SDG#:

EV15100104

WDOE ACCREDITATION:

C601

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT:

Gunderson UST / #122023.070.071

LABORATORY BLANK RESULTS

MBG-100915S - Batch 97930 - Soil by NWTPH-GX

					REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	U		MG/KG	3.0	10/09/2015	PAB

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

MB-100915S - Batch 97930 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	ANALYSIS BY
Benzene	EPA-8021	U		MG/KG	0.030	10/09/2015	PAB
Toluene	EPA-8021	U		MG/KG	0.050	10/09/2015	PAB
Ethylbenzene	EPA-8021	U		MG/KG	0.050	10/09/2015	PAB
Xylenes	EPA-8021	U		MG/KG	0.20	10/09/2015	PAB

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

MB-101415S - Batch 98074 - Soil by NWTPH-DX

					REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY	
TPH-Diesel Range (C12-C24)	NWTPH-DX	U		MG/KG	25	10/14/2015	DLC	
TPH-Oil Range (C24-C40)	NWTPH-DX	U		MG/KG	50	10/14/2015	DLC	

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

MB-101915S - Batch 98167 - Soil by EPA-8270 SIM

				REPORTING	ANALYSIS	ANALYSIS
METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY
EPA-8270 SIM	U		UG/KG	20	10/19/2015	GAP
EPA-8270 SIM	U		UG/KG	20	10/19/2015	GAP
EPA-8270 SIM	U		UG/KG	20	10/19/2015	GAP
EPA-8270 SIM	U		UG/KG	20	10/19/2015	GAP
EPA-8270 SIM	U		UG/KG	20	10/19/2015	GAP
EPA-8270 SIM	U		UG/KG	20	10/19/2015	GAP
EPA-8270 SIM	U		UG/KG	20	10/19/2015	GAP
EPA-8270 SIM	U		UG/KG	20	10/19/2015	GAP
EPA-8270 SIM	U		UG/KG	20	10/19/2015	GAP
EPA-8270 SIM	U		UG/KG	20	10/19/2015	GAP
EPA-8270 SIM	U		UG/KG	20	10/19/2015	GAP
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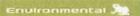
U - Analyte analyzed for but not detected at level above reporting limit.

Page 6

ALS Group USA, Corp

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208

PHONE 425-356-2600 FAX 425-356-2626





CLIENT:

ANALYTE

Lead

Landau Associates, Inc.

130 - 2nd Ave. S.

ALS SDG#:

10/22/2015

Edmonds, WA 98020

WDOE ACCREDITATION:

EV15100104 C601

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT:

Gunderson UST / #122023.070.071

LABORATORY BLANK RESULTS

MB-101915S - Batch 98198 - Soil by EPA-6020

METHOD EPA-6020

RESULTS QUAL UNITS

MG/KG

REPORTING LIMITS

0.10

DATE:

ANALYSIS ANALYSIS

DATE BY 10/22/2015 RAL

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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

ALS SDG#:

10/22/2015

Edmonds, WA 98020

EV15100104

WDOE ACCREDITATION:

DATE:

C601

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT:

Gunderson UST / #122023.070.071

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 97930 - Soil by NWTPH-GX

ANALYSIS **ANALYSIS BY**

SPIKED COMPOUND

METHOD **NWTPH-GX** %REC RPD QUAL DATE

TPH-Volatile Range (C7-C12) - BS TPH-Volatile Range (C7-C12) - BSD

87.3 NWTPH-GX 87.8 10/09/2015 10/09/2015

ANAI VOIC

PAB PAB

ANAL VOIC DV

ALS Test Batch ID: 97930 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	DATE	ANALYSIS BY
Benzene - BS	EPA-8021	80.5		10/09/2015	PAB
Benzene - BSD	EPA-8021	81.0	1	10/09/2015	PAB
Toluene - BS	EPA-8021	85.4		10/09/2015	PAB
Toluene - BSD	EPA-8021	86.0	1	10/09/2015	PAB
Ethylbenzene - BS	EPA-8021	85.3		10/09/2015	PAB
Ethylbenzene - BSD	EPA-8021	86.2	1	10/09/2015	PAB
Xylenes - BS	EPA-8021	85.2		10/09/2015	PAB
Xylenes - BSD	EPA-8021	86.1	1	10/09/2015	PAB

ALS Test Batch ID: 98074 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range (C12-C24) - BS	NWTPH-DX	92.4		10/14/2015	DLC
TPH-Diesel Range (C12-C24) - BSD	NWTPH-DX	98.2	6	10/14/2015	DLC

ALS Test Batch ID: 98167 - Soil by EPA-8270 SIM

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	ANALYSIS DATE	ANALYSIS BY
Naphthalene - BS	EPA-8270 SIM	127		10/19/2015	GAP
Naphthalene - BSD	EPA-8270 SIM	81.5	44	10/19/2015	GAP
Benzo[G,H,I]Perylene - BS	EPA-8270 SIM	107		10/19/2015	GAP
Benzo[G,H,I]Perylene - BSD	EPA-8270 SIM	77.7	32	10/19/2015	GAP

ALS Test Batch ID: 98198 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	ANALYSIS DATE	ANALYSIS BY
Lead - BS	EPA-6020	101		10/22/2015	RAL
Lead - BSD	EPA-6020	102	1	10/22/2015	RAL

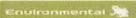
Page 8

ALS Group USA, Corp

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208

PHONE 425-356-2600

FAX 425-356-2626





APPROVED BY

Laboratory Director

EVI5100104:



-	Seattle/Edmonds (4	125)	778-0907
_			

☐ Tacoma (253) 926-2493

Spokane (509) 327-9737 Portland (503) 542-1080

Chain-of-Custody Record

														
Project Name GUNPERSON UST	roject No. L	22023	,c7c.0	71		į	<u> </u>		,,	T	esting	Param	eters	1
Project Location/Event Succession NE, WA	le antig	LIM ACICI	N CAME	LE	\$								/ /	Turnaround Time
Project Location/Event	CBIL	<u> </u>			_	/ ,	/ ,	Ι.	/	/ /				/ / ☐ Standard
Sampler's Name MATT MORENTEY			.								/3/		/ /	Accelerated
Project Contact DYLAN FRARER				_	/.	/4	'/ _' O	⁄ડ		/\ <u>\</u>	14	/ /	/ /	//
Send Results To D. FRANKER, T. SYVERY	W. K.	HULTZ	<u> </u>	10	1/		1/-	! /		Z/ 1		/ /	//	· /
			No. of Containers	BA	/E		19	\?\	9(/5	7 /	//	/ /	Observations/Comments
Sample I.D. Date	Time	Matrix	Contagners	//	<u>ر ا</u> ر	Y -1	7	<u> </u>	الح	X	(\neg	
	1220	<u> </u>		X			\Rightarrow		$\overrightarrow{\lambda}$		+			X Allow water samples to settle, collect aliquot from clear portion
	1740	1 -11	4		\Im		$\overrightarrow{\mathbf{x}}$		X	$\overline{\mathbf{x}}$				XNWTPH-Dx - run acid wash silica gel cleanup
	1300	100	ü	X		\Im		又	又	×				MWIPH-DX - Tull acid wash since get dedinap
Sii-11 10/16/15	1510	501						İ						Analyze for EPH if no specific product
						\neg								identified
														VOC/BTEX/VPH (soil):
	- ,													non-preserved
												ļļ		preserved w/methanol
							_							preserved w/sodium bisulfate
				<u> </u>										Freeze upon receipt
			<u> </u>	<u> </u>	ļ					-		 -		Dissolved metal water samples field filtered
	<u> </u>		<u> </u>	_						-				Other
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Special Shipment/Handling or Storage Requirements					_									Method of Shipment
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Relinquished by Signature	Signature		· · · · · · · · · · · · · · · · · · ·			Sig	gnatui	re	_					Signature
Printed Name Mr. Marane	Printed Nam	Rid	Beg	_		Pr	inted	Nam	e					Printed Name
Company LANDAY ASSOCIATES INC	Company _	925 1				Co	ompar	7 y						Company
Date 10116/15 Time 1400	Date	0/16/15	Time	<u> </u>	2	Da	ate _				Time _			Date Time

ALS ENVIRONMENTAL Sample Receiving Checklist

Client: Landan Associates ALSI	Job#: EV15	100104
Project: Gunduson		
Received Date: 10/16/15 Received Time: 2.50	By: <u>γ2</u> Δ	>
Type of shipping container: Cooler Z Box Other	her	
Shipped via: FedEx Ground UPS Mail C FedEx Express	ourier Als Han	d Delivered
Were custody seals on outside of sample? If yes, how many? Where? Custody seal date: Seal name:	<u>Yes</u> <u>1</u>	<u>No</u> <u>N/A</u>
Was Chain of Custody properly filled out (ink, signed, dated, etc.)?	X _	 ,
Did all bottles have labels?	<u>X</u> _	
Did all bottle labels and tags agree with Chain of Custody?	<u> </u>	
Were samples received within hold time?	<u>x</u> _	
Did all bottles arrive in good condition (unbroken, etc.)?	<u> </u>	— , ——
Was sufficient amount of sample sent for the tests indicated?	<u>x</u> _	
Was correct preservation added to samples?	<u>X</u>	<u> </u>
If no, Sample Control added preservative to the following: Sample Number Reagent Analyte ———————————————————————————————————	Per 503	5 low Kit
Were VOA vials checked for absence of air bubbles? Bubbles present in sample #:	 -	<u>X</u>
Temperature of cooler upon receipt: 13.5°C Cold	Cool Ambien	t N/A
Explain any discrepancies:		······································
Was client contacted? Who was called? By	whom?	
Outcome of call:	· · · · · · · · · · · · · · · · · · ·	



October 27, 2015

Mr. Dylan Frazer Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020

Dear Mr. Frazer,

On October 23rd, 1 sample was received by our laboratory and assigned our laboratory project number EV15100140. The project was identified as your Gunderson UST / #122023.070.071. 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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

CLIENT CONTACT: CLIENT PROJECT:

Dylan Frazer

Gunderson UST / #122023.070.071

SW-12 CLIENT SAMPLE ID

DATE:

10/27/2015

ALS JOB#:

EV15100140

ALS SAMPLE#:

EV15100140-01

DATE RECEIVED:

10/23/2015

COLLECTION DATE:

10/23/2015 8:15:00 AM

WDOE ACCREDITATION:

C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS AI DATE	NALYSIS
TPH-Volatile Range (C7-C12)	NWTPH-GX	ND	3.0	1	MG/KG	10/23/2015	PAB
Benzene	EPA-8021	ND	0.030	1	MG/KG	10/23/2015	PAB
Toluene	EPA-8021	ND	0.050	1	MG/KG	10/23/2015	PAB
Ethylbenzene	EPA-8021	ND	0.050	1	MG/KG	10/23/2015	PAB
Xylenes	EPA-8021	ND	0.20	1	MG/KG	10/23/2015	PAB
TPH-Diesel Range (C12-C24)	NWTPH-DX w/ SGA	ND	25	1	MG/KG	10/23/2015	DLC
TPH-Oil Range (C24-C40)	NWTPH-DX w/ SGA	350	50	1	MG/KG	10/23/2015	DLC
Naphthalene	EPA-8270 SIM	ND	20	1	UG/KG	10/23/2015	GAP
2-Methylnaphthalene	EPA-8270 SIM	ND	20	1	UG/KG	10/23/2015	GAP
1-Methylnaphthalene	EPA-8270 SIM	ND	20	1	UG/KG	10/23/2015	GAP
Benzo[A]Anthracene	EPA-8270 SIM	ND	20	1	UG/KG	10/23/2015	GAP
Chrysene	EPA-8270 SIM	ND	20	1	UG/KG	10/23/2015	GAP
Benzo[B]Fluoranthene	EPA-8270 SIM	ND	20	1	UG/KG	10/23/2015	GAP
Benzo[K]Fluoranthene	EPA-8270 SIM	ND	20	1	UG/KG	10/23/2015	GAP
Benzo[A]Pyrene	EPA-8270 SIM	ND	20	1	UG/KG	10/23/2015	GAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	ND	20	1	UG/KG	10/23/2015	GAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	ND	20	1	UG/KG	10/23/2015	GAP
Lead	EPA-6020	46	0.50	5	MG/KG	10/26/2015	RAL

SURROGATE	METHOD	%REC	ANALYSIS ANA DATE	ALYSIS BY
TFT	NWTPH-GX	117	10/23/2015	PAB
TFT	EPA-8021	122	10/23/2015	PAB
C25	NWTPH-DX w/ SGA	99.5	10/23/2015	DLC
Terphenyl-d14	EPA-8270 SIM	114	10/23/2015	GAP

U - Analyte analyzed for but not detected at level above reporting limit. Chromatogram indicates that it is likely that sample contains lube oil.



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

WDOE ACCREDITATION:

10/27/2015

Edmonds, WA 98020

ALS SDG#:

DATE:

EV15100140

C601

CLIENT CONTACT:

CLIENT PROJECT:

Dylan Frazer

Gunderson UST / #122023.070.071

LABORATORY BLANK RESULTS

MBG-101915S - Batch 98173 - Soil by NWTPH-GX

					REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY
TPH-Volatile Range (C7-C12)	NWTPH-GX	U		MG/KG	3.0	10/19/2015	PAB

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

MB-101915S - Batch 98173 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	QUAL	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY	
Benzene	EPA-8021	U		MG/KG	0.030	10/19/2015	PAB	
Toluene	EPA-8021	U		MG/KG	0.050	10/19/2015	PAB	
Ethylbenzene	EPA-8021	U		MG/KG	0.050	10/19/2015	PAB	
Xylenes	EPA-8021	U		MG/KG	0.20	10/19/2015	PAB	

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

MB-102215S - Batch 98303 - Soil by NWTPH-DX

					REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY	
TPH-Diesel Range (C12-C24)	NWTPH-DX	U		MG/KG	25	10/22/2015	DLC	
TPH-Oil Range (C24-C40)	NWTPH-DX	U		MG/KG	50	10/22/2015	DLC	

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

MB-101915S - Batch 98167 - Soil by EPA-8270 SIM

ANALYTE	METHOD	RESULTS	QUAL	UNITS		REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	U		UG/KG		20	10/19/2015	GAP
2-Methylnaphthalene	EPA-8270 SIM	U		UG/KG		20	10/19/2015	GAP
1-Methylnaphthalene	EPA-8270 SIM	U		UG/KG		20	10/19/2015	GAP
Benzo[A]Anthracene	EPA-8270 SIM	U		UG/KG		20	10/19/2015	GAP
Chrysene	EPA-8270 SIM	U		UG/KG		20	10/19/2015	GAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U		UG/KG	8	20	10/19/2015	GAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U		UG/KG		20	10/19/2015	GAP
Benzo[A]Pyrene	EPA-8270 SIM	U		UG/KG		20	10/19/2015	GAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U		UG/KG		20	10/19/2015	GAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U		UG/KG		20	10/19/2015	GAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U		UG/KG		20	10/19/2015	GAP

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

Page 3

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208

PHONE 425-356-2600

FAX 425-356-2626



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

ALS SDG#: WDOE ACCREDITATION: 10/27/2015 EV15100140

Edmonds, WA 98020

C601

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT:

Gunderson UST / #122023.070.071

LABORATORY BLANK RESULTS

MB-102615S - Batch 98371 - Soil by EPA-6020

ANALYTE Lead

METHOD EPA-6020

RESULTS QUAL UNITS MG/KG REPORTING

DATE:

ANALYSIS ANALYSIS

LIMITS 0.10

DATE BY 10/26/2015 RAL

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



CLIENT:

Landau Associates, Inc.

130 - 2nd Ave. S.

Edmonds, WA 98020

DATE:

10/27/2015

ALS SDG#:

EV15100140

WDOE ACCREDITATION:

C601

CLIENT CONTACT:

Dylan Frazer

CLIENT PROJECT:

Gunderson UST / #122023.070.071

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 98173 - Soil by NWTPH-GX

SPIKED COMPOUND METHOD

%REC RPD QUAL

ANALYSIS DATE 10/19/2015 ANALYSIS BY

TPH-Volatile Range (C7-C12) - BS TPH-Volatile Range (C7-C12) - BSD NWTPH-GX NWTPH-GX 86.7 86.7 0

10/19/2015

PAB PAB

ALS Test Batch ID: 98173 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	89.3		10/19/2015	PAB
Benzene - BSD	EPA-8021	89.2	0	10/19/2015	PAB
Toluene - BS	EPA-8021	91.8		10/19/2015	PAB
Toluene - BSD	EPA-8021	91.6	0	10/19/2015	PAB
Ethylbenzene - BS	EPA-8021	101		10/19/2015	PAB
Ethylbenzene - BSD	EPA-8021	100	1	10/19/2015	PAB
Xylenes - BS	EPA-8021	98.8		10/19/2015	PAB
Xylenes - BSD	EPA-8021	98.3	1	10/19/2015	PAB

ALS Test Batch ID: 98303 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range (C12-C24) - BS	NWTPH-DX	99.3		10/22/2015	DLC
TPH-Diesel Range (C12-C24) - BSD	NWTPH-DX	100	1	10/22/2015	DLC

ALS Test Batch ID: 98167 - Soil by EPA-8270 SIM

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY	
Naphthalene - BS	EPA-8270 SIM	127			10/19/2015	GAP	
Naphthalene - BSD	EPA-8270 SIM	81.5	44		10/19/2015	GAP	
Benzo[G,H,I]Perylene - BS	EPA-8270 SIM	107			10/19/2015	GAP	
Benzo[G,H,I]Perylene - BSD	EPA-8270 SIM	77.7	32		10/19/2015	GAP	

ALS Test Batch ID: 98371 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	ANALYSIS DATE	ANALYSIS BY
Lead - BS	EPA-6020	98.4		10/26/2015	RAL
Lead - BSD	EPA-6020	2.01	2	10/26/2015	RAL

Page 5

ALS Group USA, Corp

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208

PHONE 425-356-2600

FAX 425-356-2626



APPROVED BY

Laboratory Director

ALS ENVIRONMENTAL Sample Receiving Checklist

Client: Landan Associates ALS Job#: EV15100140
Project: Gunderson
Received Date: 10 215 Received Time: 11:20 By: 26
Type of shipping container: Cooler Box Other
Shipped via: FedEx Ground UPS Mail Courier ALS Hand Delivered FedEx Express
Were custody seals on outside of sample? If yes, how many? Where? To Custody seal date: 19216 Seal name: Landa Ascada
Was Chain of Custody properly filled out (ink, signed, dated, etc.)?
Did all bottles have labels?
Did all bottle labels and tags agree with Chain of Custody?
Were samples received within hold time?
Did all bottles arrive in good condition (unbroken, etc.)?
Was sufficient amount of sample sent for the tests indicated?
Was correct preservation added to samples?
If no, Sample Control added preservative to the following: Sample Number Reagent Analyte
Were VOA vials checked for absence of air bubbles?
Temperature of cooler upon receipt: 66 c Cold Cool Ambient N/A Explain any discrepancies:
Was client contacted? Who was called? By whom? Date:
Outcome of call:

EV15100140



Seattle/Edmonds (425) 778-0907 Tacoma (253) 926-2493
Tacoma (253) 926-2493
Spokane (509) 327-9737
Portland (503) 542-1080

Chain-of-Custody Record

Date	/ / 2 - 2 -	115	
Page			

Project Name Council Sampler's Name Colone Project Contact Dylan 5 Send Results To D. Frazek	ne with / Cov Bizir Mazer T. Syverson	hematica , K. 81	1 Samp	071 245			9 3	Testing	Parameter	Turnaround Time Standard Accelerated
Sample 1.D. 5 _W - 1 _Q	Date Time 10/23/15 081		Containers	XX	XX	X	XX			Observations/Comments X Allow water samples to settle, collect aliquot from clear portion
										NWTPH-Dx - run acid wash silica gel cleanup
The second secon						1		·		Analyze for EPH if no specific product identified VOC/BTEX/VPH (soil):
						•				non-preserved preserved w/methanol
*								1		preserved w/sodium bisulfate Freeze upon receipt Dissolved metal water samples field filtered
							-			Other
Special Shipment/Handling or Storage Requirements	ON	ice						<u> </u>		Method of Shipment PICK up 5
Relinquished by Signature A D D Block Printed Name Colesse Block Company Conday Associate Date 10/23/15 Time 08	Receive Signature Printed N Company Date	Ine Also	Rick Bo		Signa Printe Comp	quished ture d Name any	·	Time		Received by Signature Printed Name Company Date Time

Washington State Department of Ecology Underground Storage Tank Closure and Site Assessment Notice



UNDERGROUND STORAGE TANK Closure and Site Assessment Notice

FOR OFFICE USE ON	LY
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 Inforn	nation		Owner Info	ormation
Site ID Numbe			UST Own	ner/Operator Cit.	y of Shoreline
	cology if the tanks are				
Site/Business I		derson Proper	Mailing A	ddress 17500 A	idvale Ave H
Site Address_	100 :	Street 1804 Aurora	Ave M.		Street
City/State	horeline	WA	City/State	Shoreline	P.O. Box WA 98133
Zip Code 98	133 Telep	phone (425) 485-	9720 Zip Code	Te	lephone (704) 80 1-248
Owners Signa	ture /	t ms	(NYTA	SHA SOWERS)	
	1	Tank Closure/C		/	
Service Compa	ny Diane	s Tank Rem			
		Kamache			n No. 8057526-U
Supervisor's	Signature	Viam Kar	noth.	Date	10-20-2015
Address187	20 Sound Vi	. 01	PO. Box	77738 Seatt	He WA 98177
Ctores	TO Store VI	CD FI			
Street			P.O. Box	×	
Street	monds W4	9 8020 State	P.O. Box	x Telepho	one (ZU) 510 -9497
Street Ed City	monds W4	9 8020 State	P.O. Box	ssor Dilla Frazer	one (ZU) 510 -9497
Certified Site A Address Street	monds W4	State Site Ch	P.O. Box	Telepho ssor Dilla Frazer Telepho	one (ZU) 510 -9497
Certified Site A	monds W4	9 8020 State	P.O. Box Zip Code Liates P.O. Box Zip Code	Telepho ssor Dilla Frazer Telepho	one (ZU) 510 -9497
Certified Site A Address Street	monds W4	State Site Ch State State Tank Informati Closure Method	P.O. Box Zip Code Liates P.O. Box Zip Code	Telepho ssor Dilla Frazer Telepho	one (ZG) _510 -9497
City Certified Site A Address Street	monds W4	State Site Ch State State Tank Informati	P.O. Box Zip Code eck/Site Assertiates P.O. Box Zip Code	Telepho	one (ZC) 510 -9497 Contamination Present at the Time of Closure Yes No Unknown
City Certified Site A Address Street	monds W4	State Site Ch State State Tank Informati Closure Method	P.O. Box Zip Code P.O. Box Zip Code Zip Code Tank Capacity	Telepho ssor Dilla Frazer Telepho Telepho Substance Stored	one ()
Certified Site A Address Street City Tank ID 1 2 3	Closure Date	State Site Ch A ssoc State Tank Informati Closure Method Removal	P.O. Box Zip Code P.O. Box Zip Code Zip Code Zip Code Zip Code	Telepho	Contamination Present at the Time of Closure Yes No Unknown Check unknown if no obvious contamination was observed and sample results have not
Certified Site A Address Street City Tank ID 1 2 3	Closure Date 9/28/15	State Site Ch A ssoci	P.O. Box Zip Code P.O. Box Zip Code P.O. Box Zip Code Zip Code Zip Code Zip Code Zip Code Zip Code Zip Code Zip Code Zip Code Zip Code Zip Code Zip Code Zip Code	Telepho SSOT Dilla Frazer Telepho Substance Stored Gasolina Diesal Gasolina UnKnown (Conark)	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
Certified Site A Address Street City Tank ID 1 2 3	Closure Date	State Site Ch State State Tank Informati Closure Method Removal	P.O. Box Zip Code P.O. Box Zip Code P.O. Box Zip Code Tank Capacity 3,000 3,000 3,000	Substance Stored Gasoline Diesel Gasoline	Contamination Present at the Time of Closure Yes No Unknown Check unknown if no obvious contamination was observed and sample results have not

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) ECY 020-94 (Rev. 2-06)

Washington State Department of Ecology Underground Storage Tank Site Assessment Checklist

UST ID #:	
County:	

SITE CHECK/SITE ASSESSMENT CHECKLIST

FOR UNDERGROUND STORAGE TANKS

This checklist certifies that site check or site assessment activities were performed in accordance with Chapter 173-360 WAC. Instructions are found on the last page.

L State of	Washington								
		IST FACILITY	II. OWNER/OPER	ATOR INFORMATION					
Faci	lity Compliance Tag#	: n/a	Owner/Operator Name: City of Shoreline						
UST	ID#: n/a		Business Name: n/a						
Site	Name: Aurora Gund	erson Property	Address: 17500 Midvale Av	enue N					
Site	Address: 19804 and	19806 Aurora Avenue N	City: Shoreline	State: WA Zip: 98133					
City	: Shoreline		Phone: 206-801-2482						
Pho	ne: n/a		Email:						
		III. CERTIFIED	SITE ASSESSOR						
Sen	vice Provider Name: I	Dylan Frazer	Company Name: Landau As	sociates					
Cell	Phone: n/a	Email: dfrazer@landauinc.com	Address: 130 2 nd Avenue So	uth					
Cert	tification #: 8036209.	Exp. Date: 10/13/17	City: Edmonds	State: WA Zip: 98020					
		IV. TANK I	NFORMATION						
	TANK ID	TANK CAPACITY	LAST SUBSTANCE STORED	DATE SITE CHECK OR ASSESSMENT CONDUCTED					
	UST-1	2,000	Gasoline	9/28/15					
	UST-2	2,800	Diesel 9/28/15						
	UST-3	2,800	Gasoline	9/28/15					
	UST-4	2,800	Gasoline	10/7/15					
	UST-5	3,000	Gasoline	10/7/15					
	UST-6	300	Waste Oil 10/9/15						
	V	. Reason for Conducting Site	CHECK/SITE ASSESSMENT (che	eck one)					
⊠	Release investigatio	n following permanent UST system	n closure (i.e. tank removal or o	closure-in-place).					
	Release investigatio	n following a failed tank and/or lin	e tightness test.						
	☐ Release investigation following discovery of contaminated soil and/or groundwater.								
	Release investigatio	n directed by Ecology to determine	if the UST system is the source	ce of offsite impacts.					
	•	rgoing a "change-in-service", which a non-regulated substance (e.g. wa		gulated substance (e.g.					
	Directed by Ecology	for UST system permanently close	d or abandoned before 12/22,	/1988					

	Other (describe):			
VI. CHECKLIST				
•	The site assessor must check each of the following items and include it in the report. Sections referenced below can be found in the Ecology publication Guidance for Site Checks and Site Assessments for Underground Storage Tanks.	YES	NO	
1.	The location of the UST site is shown on a vicinity map.	⊠		
2.	A brief summary of information obtained during the site inspection is provided (Section 3.2)	⊠		
3.	A summary of UST system data is provided (Section 3.1)	×		
4.	The soils characteristics at the UST site are described. (Section 5.2)	⊠		
5.	Is there any apparent groundwater in the tank excavation?		☒	
6.	A brief description of the surrounding land use is provided. (Section 3.1)	×		
7.	The name and address of the laboratory used to perform analyses is provided. The methods used to collect and analyze the samples, including the number and types of samples collected, are also documented in the report. The data from the laboratory is appended to the report.			
8.	The following items are provided in one or more sketches:			
	Location and ID number for all field samples collected	\boxtimes		
	If applicable, groundwater samples are distinguished from soil samples		\boxtimes	
	Location of samples collected from stockpiled excavated soil	⊠		
	Tank and piping locations and limits of excavation pit	\boxtimes		
	Adjacent structures and streets	⊠		
	Approximate locations of any on-site and nearby utilities	⊠		
9.	If sampling procedures are different from those specified in the guidance, has justification for using these alternative sampling procedures been provided? (Section 3.4)			
10	. A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method, and detection limit for that method. Any sample exceeding MTCA Method A cleanup standards are highlighted or bolded.			
11	. Any factors that may have compromised the quality of the data or validity of the results are described.	×		
12	. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred. The requirements for reporting confirmed releases can be found in WAC 173-360-372.	M		
VII. REQUIRED SIGNATURES				
Signature acknowledges the Site Check or Site Assessment complies with UST regulations WAC 173-360-360 through -395.				
Dy	rlan Frazer Dy h	5		
Pri	Print or Type Name Signature of Certified Site Assessor Date			

SITE CHECK/SITE ASSESSMENT CHECKLIST

FOR UNDERGROUND STORAGE TANKS

Instructions

This checklist must accompany the results of a Site Check Report, which is performed if a release of petroleum or other regulated substance is suspected. It is also required to accompany a Site Assessment Report, which is required following the permanent closure or "change-in-service" of an underground storage tank system. This form is required to be filled out whether or not contamination is found. This checklist is to be completed by the Site Assessor and submitted within thirty days of completing these activities to the following address:

Dept. of Ecology UST Section PO Box 47655 Olympia, WA 98504-7655

- I./II. UST Facility and Owner/Operator Information: Fill out these sections completely. If you do not know your UST ID number, include the facility compliance tag number.
- III. Service Provider Information: It is the responsibility of the ICC-certified Site Assessor to ensure that sampling and documentation procedures are completed in accordance with Ecology's Guidance for Site Checks and Site Assessment for Underground Storage Tanks.
- IV. Tank Information: Use the same Tank identification numbers listed on the facility's Business License which is based on the most recent UST Addendum on file with Ecology. List the last substance stored in each tank, the tank sizes and the date the site check or site assessment was completed.
- V. Required Signature: The Site Assessor signature certifies these procedures were followed.

All confirmed releases must be reported to Ecology by the owner within 24 hours and by service providers within 72 hours of discovery. A Site Characterization Report must be submitted to Ecology within 90 days after confirming a release.

Further questions? Please contact your regional office below and ask for a tank inspector to assist you.

Regional Office	Counties Served		
Central (509) 575-2490	Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima		
Eastern (509) 329-3400	Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman		
HQ (360) 407-7170	Federal facilities in Western Washington		
Northwest (425) 649-7000	Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom		
Southwest (360) 407-6300	Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum		

or find a complete list of UST inspectors at:
www.ecy.wa.gov/programs/tcp/ust-lust/people.html