

UNDERGROUND STORAGE TANK SITE ASSESSMENT REPORT

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PREPARED FOR:

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RGI PROJECT NO. 2017-015K Agreed Order No. 16357

> UNDERGROUND STORAGE TANK SITE ASSESSMENT REPORT ROYSTONE REDEVELOPMENT 631 QUEEN ANNE AVENUE NORTH SEATTLE, WASHINGTON 98109

> > **OCTOBER 1, 2020**

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TABLE OF CONTENTS

1	INTROD	UCTION1							
2	Underground Storage Tank Regulations1								
3	SCOPE OF SERVICES								
4	ANALYTICAL LABORATORY ANALYSES2								
5	UST SIT	E ASSESSMENT & DECOMMISSIONING ACTIVITIES							
	5.1 Disco	OVERY AND ASSESSMENT OF UST PIPING AND DISPENSERS							
	5.2 UST	Decommissioning & Site Assessment							
	5.2.1	Discover of USTs							
	5.2.2	Pre-UST Decommissioning Services							
	5.2.2.1	Permitting & Notifications							
	5.2.2.2	Waste Characterization & Profiling5							
	5.2.2.3	PUNCTURE OF USTA DURING REDEVELOPMENT							
	5.2.3	UST DECOMMISSIONING							
	5.2.4	UST Site Assessment							
	5.2.4.1	OBSERVATIONS							
	5.2.4.2	UST SITE ASSESSMENT SAMPLING & ANALYSES8							
6	WASTE	DISPOSAL							
7	CONCLU	JSIONS							
8	LIMITAT	7IONS11							

LIST OF APPENDICES

-	Property Vicinity Map
-	Property Representation Map
Figure 3	Property Representation with Summary of UST Site Assessment Data
Table 1	Summary of UST Site Assessment Analytical Data
Appendix A	Ecology 30-Day Notice & SFD Permit Documentation
Appendix B	Final Analytical Laboratory Reports
Appendix C	Decommissioning & Disposal Documentation
Appendix D	UST Site Assessment Photographs
Appendix E	UST Site Assessment Checklists



1 INTRODUCTION

The Riley Group, Inc. (RGI) is pleased to present this Underground Storage Tank (UST) Site Assessment Report documenting the decommissioning and removal of three underground storage tanks (USTs) at the Roystone Redevelopment project located at 631 Queen Anne Avenue North in Seattle, Washington (herein referred to as the Property). The general location of the Property is depicted on Figure 1.

The Property is owned by Roystone on Queen Anne, LLC (Roystone) and the Property is identified by King County tax parcel number 38789900425 (Parcel 0425) and occupies approximately 11,070 square feet.

Roystone has entered into Agreed Order No. 16357 with the Washington State Department of Ecology (Ecology) and Chevron Environmental Management Company (CEMC). Under the Agreed Order, Roystone is responsible for the environmental cleanup of the Property and CEMC is responsible for the cleanup of all areas of the Site outside the Property. Remediation work on the Property is currently underway. The location of the Property relative to the Site is displayed on Figure 2.

A description of the Property and Site history, previous investigations and work associated with the Interim Action are described in the *Interim Action Work Plan* (Work Plan) dated August 19, 2020 by RGI. The Interim Action will be described in the forthcoming Interim Action Report.

This UST Site Assessment Report is intended to document the decommissioning, UST Site Assessment, and removal of three USTs and associated fuel system components encountered during the Interim Action. The work has been performed in accordance with applicable UST regulations (WAC 173-360A). The UST decommissioning and Site Assessment work was performed in general accordance with the Work Plan.

2 UNDERGROUND STORAGE TANK REGULATIONS

In Washington State, The Underground Storage Tank Regulations (WAC 173-360A), requires that Site Assessments are necessary to determine if a release has occurred from an UST system (WAC-173-360A-0730).

The activities documented in this report were completed in accordance with Ecology *Guidelines for Site Checks and Site Assessments for USTs* (revised, May 2003) and applicable UST regulations described in WAC 173-360A. RGI also maintained regular communication with Ecology regarding the work associated with the UST Site Assessment.

Soil samples were collected in UST locations where field screening indicated the presence of soil contamination or where contamination was most likely to be present. All soil samples were submitted to an Ecology accredited laboratory for analyses in accordance with WAC 173-340-830 and analyzed in accordance with Model Toxics Control Act (MTCA) Table 830-1. RGI also discussed sample analyses with Ecology prior to submitting samples to the laboratory for analyses.



In locations where releases from USTs or other fuel system components were identified, soil remediation was completed in conjunction with the redevelopment of the Property in accordance with applicable MTCA regulations and RGI's Ecology approved Work Plan. All work associated with remediation of contaminated soil will be documented in the forthcoming *Interim Action Report*.

3 SCOPE OF SERVICES

The scope of services performed for this project consisted of the following tasks:

- Performed UST Site Assessment services associated with the decommissioning of the three abandoned in-place USTs, UST piping, and a former dispenser island.
- Filed a 30-Day Notice for decommissioning of three USTs with Ecology in accordance with UST regulations. Ecology waived the 30-Day notice for all three USTs per RGI's written request.
- Documented the decommissioning (pumping, triple rinsing, inerting, and removal) of three USTs (USTA, UST4A, and UST6B). UST decommissioning was completed by Elk Heights under contract with Pavilion Construction (General Contractor [GC])
- Collected soil samples and samples of any UST contents (product/water) in accordance with applicable regulations and submitted samples to the laboratory for analysis of contaminants of concern (COCs).
- Established a waste profile for waste oil in USTA that was classified as hazardous waste and coordinated disposal of this waste with Waste Management. Proper disposal of petroleum waste was managed by the GC.
- Maintained regular communication with Ecology regarding the schedule, UST Site Assessment process, and sample analyses.
- Prepared this UST Site Assessment Report presenting our observations, findings, and conclusions

4 ANALYTICAL LABORATORY ANALYSES

A total of twenty soil samples, two product samples, and one water sample (obtained from inside UST6B) were submitted to Friedman & Bruya, Inc. (FBI), an Ecology-accredited, third-party analytical laboratory, in connection with the UST Site Assessment. Soil samples were submitted for one or more of the following analyses:

- > Hydrocarbon Identification using Method NWTPH-HCID.
- ➢ Gasoline-range TPH using Method NWTPH-Gx.
- > Diesel- and oil-range TPH using Method NWTPH-Dx.
- > Benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8021B.
- > Volatile Organic Compounds (VOCs) using EPA Method 8260B.



- Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs) using EPA Method 8270C Select Ion Monitoring (SIM).
- > Polychlorinated biphenyls (PCBs) by Method 8280.
- MTCA 5 Metals (A = Arsenic, Cd = Cadmium, Cr = Chromium, Pb = Lead, and Hg = Mercury) in soil using EPA Method 200.8.
- Toxicity Characteristic Leaching Procedure (TCLP) for Lead using EPA Method 200.8 and 40 CFR Part 261.

Product samples, soil samples, and the one water sample collected from inside UST6B are summarized in Table 1. Analytical results pertaining to the UST Site Assessment are displayed on Figure 3. Copies of final analytical laboratory reports are included in Appendix B. Note that some of the laboratory reports also contain samples analytical results associated with the project-wide Interim Action, which are not described in this report.

5 UST SITE ASSESSMENT & DECOMMISSIONING ACTIVITIES

This section describes the assessment and removal of dispensers and suspected product piping and the decommissioning, UST Site Assessment and removal of three USTs (USTA, UST4A, UST6B). The locations of USTs and other fuel system components and UST Site Assessment soil sample locations are displayed on Figure 3. Photographs pertaining to the UST Site Assessment are included in Appendix D. Copies of the UST Site Assessment Checklists are included in Appendix E. It should be noted that the decommissioning of other USTs and fuel system components was conducted by others in the 1990s. Therefore, the potential exists that suspected product pipes discussed in this section were not observed in their original locations and were either disturbed or relocated during excavation activities conducted in the 1990s by others.

5.1 DISCOVERY AND ASSESSMENT OF UST PIPING AND DISPENSERS

On March 25, 2020, RGI identified a pump island directly beneath the asphalt in a location west of the reported location of UST6B on the eastern portion of the Property. Remnants of dispensers 1 and 2 and associated product piping were observed in this location. The dispensers and product piping appeared to be associated with former UST5Ba based on the location of UST5B reported in previous reports. However, it was later determined that the piping was more likely associated with UST6B based on the location of UST6B.

RGI collected soil samples from beneath both dispensers (Disp1-0.5 and Disp2-0.5), beneath product piping in a location where the pipe connected to the dispenser (PP2-UST5B-0.5) and where the pipe entered the reported location of former UST5B (PP1-UST5B-2.5). The only location where soil contained concentrations of COCs above applicable MTCA soil cleanup levels was sample location PP1-UST5B-2.5 where gasoline range TPH was detected at a concentration of 130 mg/kg, which exceeded the MTCA soil cleanup level of 30 mg/kg. This was a location where petroleum contaminated soil (PCS) was previously identified and remediation was planned.



On May 6, 2020, a section of suspected product piping was discovered on the northcentral portion of the Property near former well MW9. The potential exists that this piping was relocated from another portion of the Property during excavation activities conducted by others in the 1990s. Field screening (photoionization detector [PID] and visual/olfactory observations) did not indicate the presence of contamination beneath the pipe. RGI collected one soil sample beneath the pipe at approximately 2 feet below the original grade of the Property (PP1-NPL-2). This sample was submitted to the laboratory for analyses of COCs. No COCs were detected in soil at concentrations above laboratory detection limits.

On May 7, 2020, suspected product piping was discovered on the southwestern portion of the Property near former boring SSI-P5. The piping extended northeast from this location and it appeared this pipe may have been connected to former UST4. RGI identified soil contamination directly beneath the pipe via field screening. One sample of contaminated soil was collected from beneath the pipe at approximately 2 feet bgs (PP1-UST4-1.5) and submitted to the laboratory for analyses of COCs. Gasoline-range TPH was detected at a concentration of 1,200 mg/kg, which exceeds the applicable MTCA soil cleanup level of 30 mg/kg. This contaminated soil was situated in a location where PCS was previously identified and soil remediation was planned.

On June 5, 2020, suspected product piping was discovered on the east-central portion of the Property near former boring DP-3. The piping was situated approximately 16 feet northeast of the location of former UST10 and may have been associated with UST10. However, this could not be confirmed. Field screening did not indicate the presence of contamination beneath the pipe and RGI collected one soil sample from beneath the pipe at approximately 2.5 feet bgs (UST10- PP1-2.5). This sample was submitted to the laboratory for analyses of COCs and no COCs were detected in soil at concentrations above laboratory detection limits.

All product piping and dispenser remnants were later removed from the Property by Marine Vacuum Services, Inc. (Marvac).

5.2 UST DECOMMISSIONING & SITE ASSESSMENT

This section describes the discovery, decommissioning, UST Site Assessment, and disposal of USTs and associated waste pertaining to USTA, UST4A, and UST6B.

5.2.1 DISCOVER OF USTS

On May 11, 2020, a 1,066-gallon diesel UST (UST4A) and a 317-gallon waste oil UST (USTA) were discovered during mass excavation activities on the west-central and central portions of the Property. The USTs did not appear punctured at the time of discovery. However, top of USTA was bent approximately 6 inches inwards on the southwest side of USTA.

On June 2, 2020, a 3,455-gallon gasoline UST (UST6B) was encountered during drilling activities associated with pile installations on the eastern side of the Property. During drilling, soil caved into the borehole, which exposed the south side of the UST and the



UST was not disturbed or punctured. This UST was suspected to be UST6B, which was described in previous investigations as being abandoned in-place. However, previous reports by others indicated UST6B was 8,000-gallons, which was significantly larger than the capacity observed. The reported location of UST6B was also south of the location where the tank was found. Therefore, it was not possible to confirm whether or not this UST was actually UST6B as discussed in previous reports. Samples collected in connection with this UST were labeled with a UST6B prefix.

5.2.2 PRE-UST DECOMMISSIONING SERVICES

It was necessary for several tasks to be completed prior to commencing with UST decommissioning and UST Site Assessment. These tasks are summarized below.

5.2.2.1 PERMITTING & NOTIFICATIONS

Prior to commencing with UST decommissioning, the GC obtained permits from the Seattle Fire Department (SFD) and RGI submitted 30-Day Notice paperwork to Ecology in accordance with applicable regulations and requested that Ecology grant a waiver for the 30 day notice period for all three USTs. This request was granted by Ecology and copies of 30-Day Notices and the SFD permit pertaining to UST4A and USTA are included in Appendix A.

The decommissioning of USTs was managed by the GC. RGI has requested a copy of SFD permit pertaining to UST6B from the GC's subcontractor (Marvac). Marvac has indicated that they do not have a copy of this permit, but have requested one from the SFD and will send it to RGI as soon as they receive it. RGI will send this permit to Ecology once it is received. A copy of the proof of payment for the permit associated with UST6B is included in Appendix A.

5.2.2.2 WASTE CHARACTERIZATION & PROFILING

Prior to UST decommissioning, RGI obtained product/water samples from USTA, UST4A, and UST6B (USTA-Product, UST4A-Product, and UST6B-1). These samples were submitted to the laboratory for analysis in accordance with MTCA Table 830-1 analyses with the exception of the water sample obtained from inside UST6B (UST6B-1). UST6B was previously decommissioned and was filled with controlled density fill (CDF) and only a small amount of water (<2 liters) was present inside this UST. RGI collected one sample of this water, which was submitted to the laboratory for Hydrocarbon Identification (NWTPH-HCID) analysis. Based on a discussion with Ecology, no further analyses were performed on this water sample.

The product sample obtained from UST4A on May 11, 2020 contained diesel-range TPH and xylenes at concentrations exceeding MTCA soil cleanup levels. Based on this analyses, the GC coordinated disposal of product with Marvac.

The product sample obtained from USTA on May 11, 2020 contained benzene, toluene, ethylbenzene, xylenes, tetrachloroethene (PCE), trichloroethene (TCE), naphthalene, carcinogenic polycyclic aromatic hydrocarbons (cPAHs), and lead at concentrations exceeding MTCA soil cleanup levels. Based on the benzene, PCE, and TCE concentrations



present in the waste oil, the waste oil was classified as F002/D018 listed hazardous waste and required disposal as hazardous waste. RGI coordinated disposal of waste oil with Waste Management under Waste Profile No. OR344922. Copies of the hazardous waste profile and associated waste disposal documentation are included in Appendix C.

The water sample obtained from UST6B on June 2, 2020 contained gasoline-range TPH. This small amount of water was disposed of with the CDF that was excavated from inside the UST. The CDF and water were removed from the Property along with the PCS being removed from the Property during the Interim Action.

5.2.2.3 PUNCTURE OF USTA DURING REDEVELOPMENT

On May 21, 2020, USTA was accidentally punctured by the GC's excavation subcontractor during grading activities and approximately 40 gallons of product were released from the southwest side of the UST at a grade approximately 3.5 feet bgs. The oil was viscous and did not migrate vertically more than a few inches. Groundwater was not impacted by this release as groundwater was situated approximately 15 feet below the grade of the release in this location.

RGI quickly stopped the leak by plugging the UST with native clay. Clean soil was quickly placed on and around the area of the release in order to contain the release and absorb the waste oil in preparation for immediate excavation. This soil and product were excavated from an area that was approximately 7 feet wide by 7 feet long and 3 feet deep (or 6.5 feet below the original grade of the Property). The area of the product release was over excavated to 3 feet to ensure all waste oil was removed. The product and soil were placed on plastic and covered with plastic. Approximately 62 tons of hazardous waste soil were generated during the cleanup of the release. A sample of this impacted soil was submitted to the laboratory for required analyses under MTCA Table 830-1. Analytical data indicated that PCE and TCE where present in the soil at concentrations that required disposal as a F002 listed hazardous waste. This soil was subsequently removed from the Property and disposed of in accordance with applicable regulations. The disposal of this soil will be documented in the forthcoming *Interim Action Report*.

The GC retained Marvac on the same day to drain the remaining waste oil into two 55-gallon drums that were stored on the Property.

RGI reported the release to Ms. Jing Song and Mr. Kale Carlson of Ecology on June 21, 2020 at 5:25 pm.

5.2.3 UST DECOMMISSIONING

The GC retained Marvac to provide the equipment necessary to pump product from the USTs, clean the USTs, and remove rinse water used for cleaning. The GC also coordinated with the SFD and marine chemist prior to commencing with decommissioning.

Between May 21 and 22, 2020, approximately 250 gallons of product and rinse water were pumped from UST4A directly into a vacuum truck by Marvac. An additional 275 gallons of waste oil and rinse water was removed from USTA and stored in five 55-gallon drums. UST cleaning consisted of using detergent in conjunction with water and a



pressure washer to remove diesel from inside UST4A and hazardous waste oil from inside USTA. The cleaning of the USTs included removing accumulated sludge/sediment from the internal walls of the USTs.

UST6B was previously decommissioned and filled with CDF. UST6B also contained less than 2 liters of water. Therefore, no pumping or cleaning services were required for this UST other than the removal of CDF. On June 1, 2020, the marine chemist and the SFD inspected USTA and UST4A, after Marvac had completed the pumping and cleaning of both USTs, and determined that both USTs were in acceptable condition to remove from the Property.

On June 8, 2020, the marine chemist and the SFD inspected UST6B and determined that it was acceptable to remove UST6B from the Property. The UST was removed in several pieces using the excavator to tear apart steel. The CDF inside the UST was then excavated and disposed of with PCS being removed during the Interim Action.

All three USTs were transported off-Property for disposal by Marvac. Documentation associated with UST decommissioning is included in Appendix C.

5.2.4 UST Site Assessment

The UST Site Assessment for USTA, UST4A, and UST6B was performed on June 1 and 8, 2020. Mr. Eric Dunham of RGI (Washington State Site Assessor No. 9261523) performed UST Site Assessment activities. Photographs associated with UST Site Assessment activities are included in Appendix D. Copies of UST Site Assessment Checklists are included in Appendix E.

5.2.4.1 OBSERVATIONS

On June 1, 2020, RGI observed the removal of UST4A and USTA from the excavation and closely inspected each UST.

UST4A was a horizontal cylinder shaped UST with single wall steel construction that was 6 feet with a diameter of 5.5 feet and an approximately 1,066 -gallon capacity. UST4A was previously used to store diesel fuel and appeared to be in relatively good condition and no holes were observed in the UST.

USTA was a horizontal cylinder shaped UST with single wall steel construction that was 6 feet long with a diameter of 3 feet and an approximately 317-gallon capacity. An approximately 3 millimeter hole was observed on the bottom eastern side of USTA with black sludge staining on the outside of the tank. An approximately 0.5-inch hole was also observed at the top eastern side of the UST.

On June 8, 2020, RGI observed the removal of UST6B from the excavation. UST6B was a horizontal cylinder shaped UST with single wall steel construction that was 12 feet long with a diameter of 7 feet and an approximately 3,455-gallon capacity. The UST had been filled with CDF prior to discovery and less than two liters of water was present inside the UST.



Apart from the damage done to tear apart the UST, Evidence of corrosion was observed and a 10-inch diameter circular hole was present on the central portion of the bottom of the UST. This is likely where the UST was cut for the purpose of collecting a soil sample at the time the UST was abandoned in place. However, no records pertaining to previous work regarding UST6B were found.

5.2.4.2 UST SITE ASSESSMENT SAMPLING & ANALYSES

This section describes UST Site Assessment sampling and analysis pertaining to the three USTs.

5.2.4.2.1 UST4A

On May 14, 2020, RGI collected a sample of soil surrounding the fill port of UST4A (UST4A-PP-1-2). This sample was submitted to the laboratory for analysis of COCs and no COCs were detected at concentrations above applicable MTCA soil cleanup levels.

On June 1, 2020 RGI screened soil in the UST4A excavation using a PID and visual and olfactory observations. RGI did not observe any evidence of contaminated soil or a release from UST4A. Soil in the excavation consisted of sand with some silt and gravel. Three samples were collected from the bottom, east, and west sides of the UST excavation (UST4A-SA-1B-8.5, UST4A-SA-2E-7, and UST4A-SA-3W-7) and submitted to the laboratory for analyses. No COCs were detected in soil at concentrations exceeding applicable MTCA soil cleanup levels. RGI concluded that no release occurred from UST4A and no further action was necessary in connection with UST4A.

5.2.4.2.2 USTA

On May 22, 2020 USTA was inadvertently punctured as described in Section 6.2.2.3 and soil sample UST-1W-3 was collected from beneath the area of the release after the release was contained and cleanup was completed. Analytical results from this sample indicated that soil contained gasoline- and oil-range TPH at concentrations exceeding the applicable MTCA soil cleanup levels. This contamination was not suspected to be caused by the release due to the punctured UST, but rather from a previous release from USTA. Analytical data obtained from a sample of the stockpiled soil associated with the release due to the puncture was collected on June 2, 2020 indicated that PCE and TCE where present in soil. PCE and TCE were not detected in sample UST-1W-3.

On June 1, 2020 RGI screened soil in the USTA excavation after the UST was removed using a PID and visual and olfactory observations. Field screening indicated the presence of contamination in the excavation. Soil in the excavation consisted of sand with some silt and gravel. Three samples were collected from the west, bottom, and east sides of the UST excavation (USTA-SA-1W-6, USTA-SA-2B-6, and USTA-SA-3E-4.5) and submitted to the laboratory for analyses of COCs. Benzene was detected in soil at concentrations of 0.19 mg/kg and 0.096 mg/kg, which exceeded MTCA soil cleanup level of 0.03 mg/kg. PCE and TCE were not detected in any of these soil samples, which confirmed that the release caused by the puncture of USTA had been cleaned up. RGI concluded that a release of gasoline- and oil-range TPH and benzene occurred to soil in the location of USTA and remediation was required. The cleanup of this contaminated soil was



completed in accordance with MTCA regulations and will be documented in the forthcoming *Interim Action Report*.

5.2.4.2.3 UST6B

On June 8, 2020 RGI screened soil in the UST6B excavation using a PID and visual and olfactory observations. Field screening indicated that PCS was present directly beneath the 10-inch hole in the UST and the surrounding bottom of excavation. No evidence of contamination was observed in the sidewalls of the excavation. Soil in the excavation consisted of sand with some silt and gravel. Four samples were collected from the bottom, west, north, and east sides of the UST excavation (UST6B-SA-1B-13, UST6B-SA-2W-10, UST6B-SA-3N-10, and UST-SA-4E-10) and submitted these samples to the laboratory for analyses. Gasoline-range TPH was detected in soil beneath the UST at a concentration of 1,900 mg/kg, which exceeds the MTCA soil cleanup level of 30 mg/kg. RGI concluded that a release of gasoline-range TPH occurred to soil in the location of UST6B sometime prior to the UST being filled with CDF. The cleanup of this contaminated soil was completed in accordance with MTCA regulations and will be documented in the forthcoming *Interim Action Report*.

6 WASTE DISPOSAL

On May 22, 2020 a total of approximately 250-gallons of diesel product and associated rinse water were removed from the Property by Marvac via pumping wastewater from UST4A directly into a vacuum truck. This wastewater was transported to Marvac's facility in Seattle, Washington for disposal in accordance with applicable regulations. Disposal of petroleum waste was managed by the GC and their subcontractors.

On June 15, 2020, Waste Management removed at total of seven 55-gallon drums from the Property containing 1.47 tons (or 365-gallons) of waste oil and rinse water classified as F002/D018 listed hazardous waste under Waste Profile No. OR344922. Waste Management will handle the disposal of this hazardous waste, which will require treatment by incineration followed by disposal of the ash at a Subtitle C landfill.

Documentation pertaining to disposal of diesel product, hazardous waste oil and associated wastewater is included in Appendix C.

7 CONCLUSIONS

The actions documented in this UST Site Assessment Report support the following conclusions:

A 1,066-gallon diesel UST (UST4A) was encountered on the west central portion of the Property and decommissioned in accordance with applicable regulations. No evidence of a release was observed at UST4A during the UST Site Assessment and the UST appeared to be in good condition. UST Site Assessment analytical data obtained from soil situated in the UST4A excavation indicated that no COCs were present in soil at concentrations exceeding applicable MTCA soil cleanup levels. No further action is necessary in connection with UST4A.



- A 317-gallon waste oil UST (USTA) was encountered on the central portion of the Property and decommissioned and removed from the Property in accordance with applicable regulations. During the UST Site Assessment, holes and corrosion were observed on USTA. Field screening indicated the presence of contamination beneath USTA. Analytical data obtained from the contents of USTA (residual product) indicated the presence of benzene, PCE, and TCE. These concentrations classified the waste as a D018/F002 listed hazardous waste. Analytical data obtained from UST Site Assessment soil samples indicated that gasoline- and oilrange TPH and benzene were present in soil beneath USTA at concentrations exceeding applicable MTCA soil cleanup levels. Therefore, a release occurred in the location of USTA. The remediation of contaminated soil associated with USTA has been completed on the Property in accordance with MTCA regulations and will be documented in the forthcoming *Interim Action Report*.
- USTA was inadvertently punctured by the GC's subcontractor during grading activities associate with redevelopment on May 21, 2020. This resulted in a release of approximately 40-gallons of waste oil to soil near the west side of USTA. The release was quickly contained and cleanup up before any significant migration occurred. This release was reported to Ecology on May 21, 2020. Approximately 62 tons of hazardous waste soil were generated during the cleanup of this release. The disposal of hazardous waste soil will be documented in the forthcoming *Interim Action Report*.
- A 3,455-gallon gasoline UST (UST6B), was encountered on the eastern portion of the Property and was previously decommissioned by others (circa 1990). The UST was filled with CDF and contained less than two liters of water. Based on discussions with Ecology, UST6B was decommissioned and removed from the Property in accordance with applicable regulations. During the UST Site Assessment, corrosion was observed on UST6B and a 10-inch circular hole was observed in the central portion of the bottom of UST6B where field screening indicated the presence of contamination. Analytical data obtained from UST Site Assessment soil samples indicated that gasoline-range TPH was present in soil beneath UST6B at concentrations exceeding applicable MTCA soil cleanup levels. A release to soil had likely occurred in this location UST6B sometime prior to the UST being filled with CDF. The remediation of this contaminated soil has been completed on the Property in accordance with MTCA regulations and will be documented in the forthcoming *Interim Action Report*.
- A pump island and four sections of suspected product piping were encountered across the Property. The pipes could not be readily connected to any specific UST. . Analytical data obtained from soil samples in these areas confirmed the presence of PCS on the east and southwest portions of the Property in locations where PCS was known to be present and remediation was planned. USTs and product piping were transported off-Property for disposal by Marvac after decommissioning was completed.



- A total of approximately 1.47 tons (or 685-gallons) of waste oil and rinse water classified as F002/D018 listed hazardous waste were transported off-Property by Waste Management for disposal. The waste will be incinerated and the resulting ash will be transferred to a Subtitle C landfill. A total of approximately 250-gallons of diesel product and associated rinse water were pumped from UST4A directly into a vac truck by Marvac and transported to the Marvac facility in Seattle, Washington for disposal.
- The remediation of all contaminated soil associated with this UST Site Assessment has been completed on the Property during the Interim Action. The work performed during the Interim Action will be documented in detail in the forthcoming Interim Action Report.
- No further action is required pertaining to the decommissioning of USTs and other underground improvements discussed in this report.

RGI recommends submitting a copy of the UST Site Assessment Report to Ecology under Agreed Order 16357.

8 LIMITATIONS

This report is the property of Roystone on Queen Anne, LLC and their authorized representatives and was prepared in a manner consistent with the level of skill and care ordinarily exercised by members of the profession currently practicing in the same locality and under similar conditions. This report is intended for specific application to the Property located at 631 Queen Anne Avenue North in Seattle, Washington. No other warranty, expressed or implied, is made.

The analyses and recommendations presented in this report are based upon data obtained from our review of available information at the time of preparing this report, our soil excavation on the Property, or other noted data sources. Conditional changes may occur through time by natural or human-made process on this or adjacent properties. Additional changes may occur in legislative standards, which may or may not be applicable to this report. These changes, beyond RGI's control, may render this report invalid, partially or wholly. If variations appear evident, RGI should be requested to reevaluate the recommendations in this report.



If you have any questions, or need additional information, please contact us at (425) 415-0551.

Page 12

Sincerely,

THE RILEY GROUP, INC.

Jerry Sawetz Senior Environmental Scientist

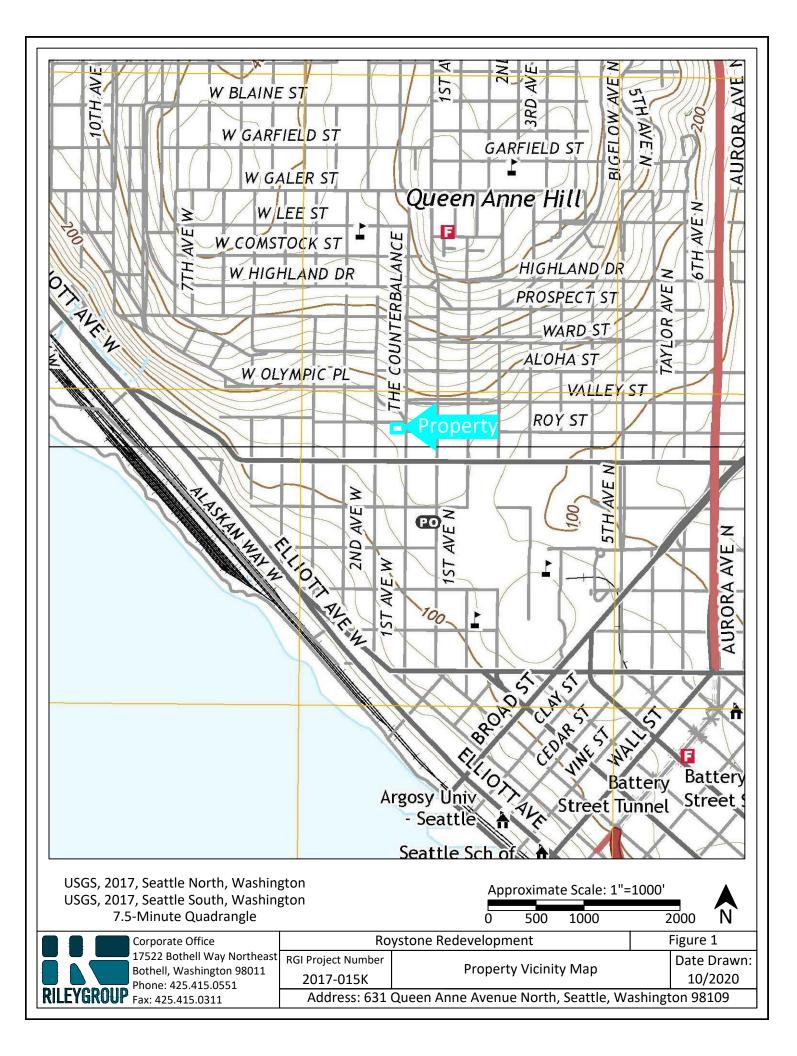
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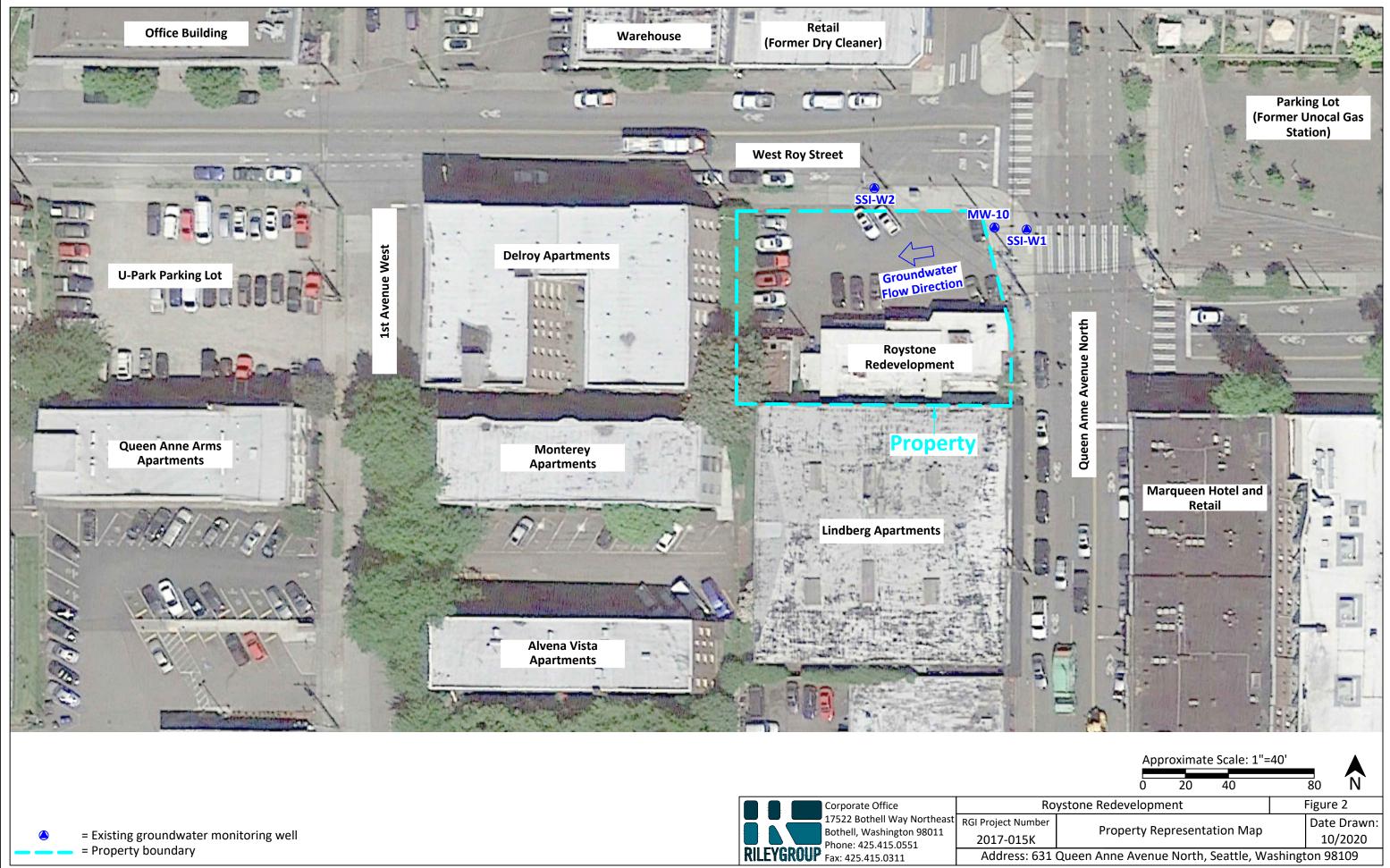
Eric Dunham Staff Geologist

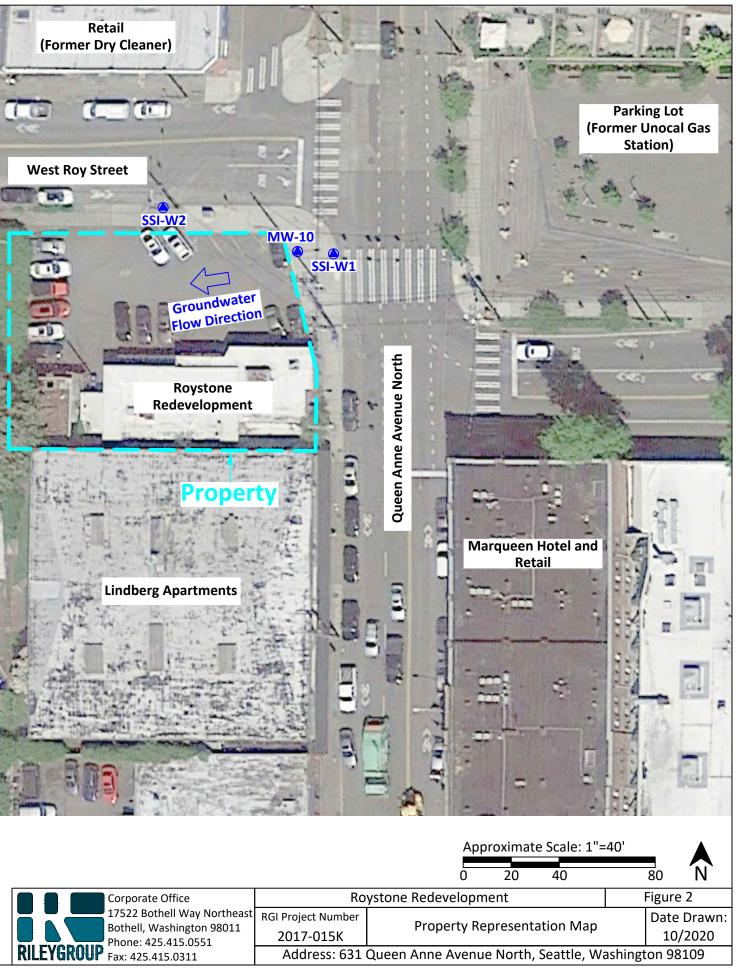
heh

Paul D. Riley, LG, LHG Principal









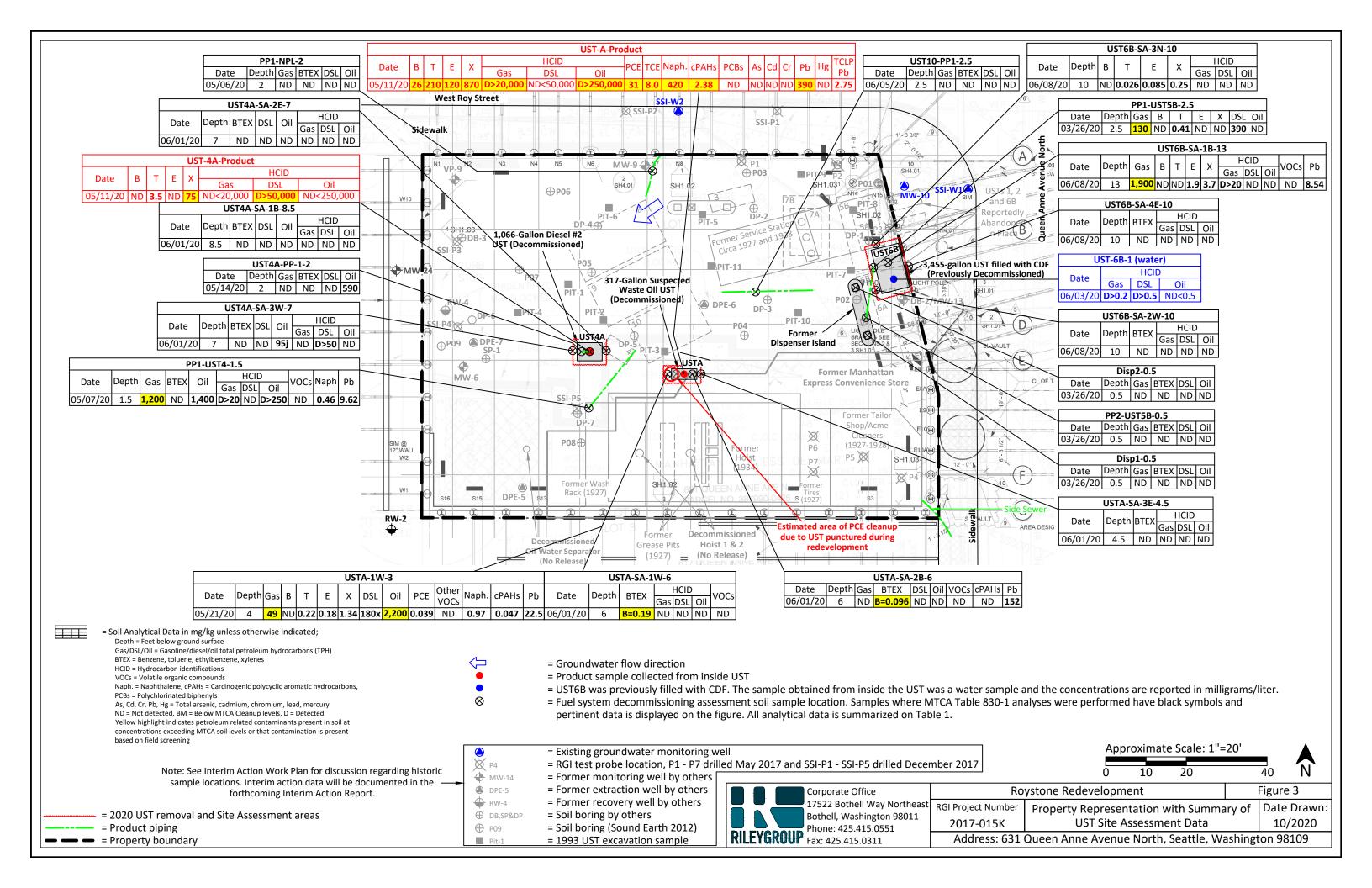


Table 1. Summary of UST Site Assessment Analytical Data

D n Anno LLC (Arnold's/Ea co Sonvico Station No. 211577)

Roystone on Qu	een Anno	e, LLC (Arn	old's/Fori	mer Texac	o Service	Station I	No. 21157	7)																					
631 Queen Anne	e Avenue	North, Sea	attle, Was	shington 9	98109																								
The Riley Group,	ne Riley Group, Inc. Project No. 2017-015K Task 7A																												
Sample	Sample	Sample	Gasoline		BTE	X		Diesel TPH	Oil TPH		HCID		PCE	TCE	Hexane	МТВЕ	EDC	EDB	Other	Other	Nanh	cPAHs	PCBs		Т	otal Meta	als		TCLP ⁷
Number	Depth	Date	ТРН	В	Т	E	Х	Diesei IPH		Gasoline	Diesel	Heavy Oil	PCE	ICE	пехапе	IVITE	EDC	EDB	HVOCs	VOC s ⁴	Naph.	СРАПЗ	PCDS	As	Cd	Cr	Pb	Hg	Pb
	USTA (317-Gallon Suspected Waste Oil UST)																												
UST-A-Product ⁹		05/11/20		26	210	120	870			D>20,000	ND<50,000	D>250,000	31	8.0	70	ND<10	ND<10	ND<10		ND	420	2.38	ND<2	ND<1	ND<1	ND<1	390	ND<1	2.75
USTA-1W-3 ¹³	4	05/21/20	49	ND<0.03	0.22	0.18	1.34	180x	2,200				0.039	ND<0.02	ND<0.25	ND<0.05	ND<0.05	ND<0.05		ND	0.97	0.047					22.5		
USTA-SA-1W-6	6	06/01/20		0.19	ND<0.05	ND<0.05	5 ND<0.15			ND<20	ND<50	ND<250	ND<0.025	ND<0.02	ND<0.25	ND<0.05	ND<0.05	ND<0.05		ND	ND<0.05								
USTA-SA-2B-6	6	06/01/20	ND<5	0.096	ND<0.05	ND<0.05	5 ND<0.15	ND<50	ND<250				ND<0.025	ND<0.02	ND<0.25	ND<0.05	ND<0.05	ND<0.05		ND	ND<0.05	ND<0.05					152		
USTA-SA-3E-4.5	4.5	06/01/20		ND<0.02	ND<0.02	ND<0.02	2 ND<0.06			ND<20	ND<50	ND<250																	
USTA-SP-1-S ¹¹		06/02/20	1,400	0.51	6.0	5.5	38	8,100 x	33,000				0.61	0.14			ND<0.05		ND										
	UST4A (1,066-Gallon Diesel UST)																												
UST-4A-Product ⁹		05/11/20		ND<0.2	3.5	ND<0.2	75			ND<20,000	D>50,000	ND<250,000																	
UST4A-PP-1-2	2	05/14/20	ND<5	ND<0.02			2 ND<0.06	ND<50	590																		t	ł	í
UST4A-SA-1B-8.5	8.5	06/01/20		ND<0.02	ND<0.02		2 ND<0.06	ND<50	ND<250	ND<20	ND<50	ND<250																	
UST4A-SA-2E-7	7	06/01/20		ND<0.02	ND<0.02		2 ND<0.06	ND<50	ND<250	ND<20	ND<50	ND<250																	
UST4A-SA-3W-7	7	06/01/20		ND<0.02	ND<0.02	ND<0.02	2 ND<0.06	ND<50	95 j	ND<20	D>50	ND<250																	
							•			•		UST6B (3,45	5-Gallon Ga	soline US	т)												·		
UST6B-1 ¹⁰		06/03/20								D>0.2	D>0.5 x	ND<0.5																	
UST6B-SA-1B-13	13	06/08/20	1,900	ND<0.03	ND<0.05	1.9	3.7			D>20	ND<50	ND<250			ND<0.25	ND<0.05	ND<0.05	ND<0.05			ND<0.05						8.54		
UST6B-SA-2W-10	10	06/08/20		ND<0.02	ND<0.02	ND<0.02	2 ND<0.06			ND<20	ND<50	ND<250																	
UST6B-SA-3N-10	10	06/08/20		ND<0.02	0.026	0.085	0.25			ND<20	ND<50	ND<250																	
UST6B-SA-4E-10	10	06/08/20		ND<0.02	ND<0.02	ND<0.02	2 ND<0.06			ND<20	ND<50	ND<250																	
												UST Pip	ing and Disp	pensers															
UST10-PP1-2.5	2.5	06/05/20	ND<5	ND<0.02	ND<0.02	ND<0.02	2 ND<0.06	ND<50	ND<250																				
PP1-UST4-1.5	1.5	05/07/20	1,200	ND<0.03	ND<0.05	ND<0.05	5 ND<0.15		1,400	D>20	ND<50	D>250			ND<0.25	ND<0.05	ND<0.05	ND<0.05			0.46						9.62		
PP1-NPL-2	2	05/06/20	ND<5	ND<0.02	ND<0.02	ND<0.02	2 ND<0.06	ND<50	ND<250																				
PP1-UST5B-2.5	2.5	03/26/20	130	ND<0.02j	0.41	ND<0.1	ND<0.3	390	ND<250																				
PP2-UST5B-0.5	0.5	03/26/20	ND<5	ND<0.02	ND<0.02	ND<0.02	2 ND<0.06	ND<50	ND<250																				
Disp 1-0.5 ¹²	0.5	03/26/20	ND<5	ND<0.02	ND<0.02	ND<0.02	2 ND<0.06	ND<50	ND<250																				
Disp 2-0.5 ¹²	0.5	03/26/20	ND<5	ND<0.02	ND<0.02	ND<0.02	2 ND<0.06	ND<50	ND<250																				
MTCA Method A for Unrestrie		•	100/30 ¹	0.03	7	6	9	2,0	000	100/30 ¹	2,	000	0.05	0.03		0.1	0.05 ⁵	0.05 ⁵	Analyte Specific	Analyte Specific	5	0.1 ⁶	1	20	2	19/ 2,000 ²	250	2	5
MTCA Method B for Unrestric		•													480														

Notes:

All results and detection limits are given in milligrams per kilogram (mg/kg); equivalent to parts per million (ppm) unless otherwise indicated.

Sample Depth = Soil sample depth interval in feet below ground surface (bgs) prior to the start of construction.

Gasoline TPH (total petroleum hydrocarbons) determined using Northwest Test Method NWTPH-Gx.

BTEX (benzene, toluene, ethylbenzene, and xylenes) determined using EPA Test Method 8021B or 8260D.

Diesel and Oil TPH (total petroleum hydrocarbons) determined using Northwest Test Method NWTPH-Dx.

Gasoline, Diesel, and Oil HCID (hydrocarbon identification) determined using Northwest Test Method NWTPH-HCID.

Naph. (naphthalene) determined using EPA Test Method 8260D.

PCE (tetrachloroethene), TCE (trichloroethene), Hexane, MTBE (methyl t-butyl ether), EDC (1,2-dichloroethane), eDB (1,2-dibromoethane), and other VOCs (volatile organic compounds) determined using EPA Test Method 8260D.

cPAHs (carcinogenic polycyclic aromatic hydrocarbons) determined using EPA Test Method 8270D SIM.

PCBs (polychlorinated biphenyls) determined using EPA Test Method 8082A.

Total Metals (As = arsenic, Cd = cadmium, Cr = chromium, Pb = lead, Hg = mercury) determined using EPA Method 6020B.

TCLP Pb (toxicity characteristic leaching procedure lead) determined using EPA Method 6020B and 1311.

x = The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

D = Detected at a concentration above the analytical detection limit.

ND = Not detected at a concentration above the analytical detection limit.

---- = Not analyzed or not applicable.

Table 1. Summary of Soil Analytical Results for Underground Storage Tanks

Roystone on Queen Anne, LLC (Arnold's/Former Texaco Service Station No. 211577)

631 Queen Anne Avenue North, Seattle, Washington 98109

The Riley Group, Inc. Project No. 2017-015K Task 7A

Notes continued:

Washington State Department of Ecology (Ecology) Model Toxics Control Act (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses (WAC 173-340-900, Table 740-1). MTCA Method B Soil Screening Levels from Ecology's Cleanup Level and Risk Calculation (CLARC) database.

¹ The higher cleanup level is allowed if no benzene is present in the gasoline mixture and the total concentration of toluene, ethylbenzene and xylenes is less than 1% of the gasoline mixture.

The higher cleanup level is allowed if no hexavalent chromium (CrVI) is present in the sample.

No MTCA Method A Cleanup Level has been established. Therefore, the applicable MTCA Method B Standard Formula Value obtained from CLARC is referenced.

⁴ Petroleum-related VOCs (for example, isopropylbenzene) are factored into the MTCA Method A TPH Cleanup Levels calculations and were not evaluated separately. MTCA TPH cleanup levels are sufficient for assessing these compounds. ⁵ The cleanup level is less than the method detection limit. Therefore, the detection limit is referenced.

⁵ The toxicity of the cPAH mixture is compared to the MTCA Method A Soil Cleanup Level for benzo(a)pyrene using the toxicity equivalency methodology described in WAC 173-340-708(8).

⁷ TCLP = Toxicity Characteristic Leaching Potential. Utilized for determining if the lead observed in USTA was classified as hazardous waste. Results and detection limits are given in milligrams per liter (mg/L).

³ Soil sample was collected from soil surrounding the fill port of UST4A

⁹ Product sample collected from inside the UST.

¹⁰ UST6B was filled with controlled density fill and no product was present. Less than 2 liters of water were present in UST6B and the sample consists of water inside the UST6B (concentration is reported in micrograms/liter).

¹ Soil stockpile sample that was analyzed to characterize soil for disposal in location after USTA was inadvertently punctured during redevelopment.

¹² Samples were obtained from beneath remnants of dispenser associated with a dispenser island encountered on the east side of the Property.

¹³ The actual depth of this sample was 4 feet below the original grade of the Property.

Bold results indicate concentrations (if any) above laboratory detection limits.

Bold and yellow highlighted results indicate concentrations (if any) that exceed MTCA Method A or B Soil Cleanup Levels.

APPENDIX A

ECOLOGY 30-DAY NOTICE & SFD PERMIT DOCUMENTATION





30-DAY NOTICE FOR UNDERGROUND STORAGE TANK SYSTEMS

UST ID #:	
County:	King

This form provides Ecology 30-days' advanced notice for projects, as required by Chapter 173-360A WAC. Instructions are on the back page.

Please 🗸 the a	opropriate box:	🗌 Intent to	Install 🔳 In	itent to Close	Change-in-Service						
	I. SITE INFC	RMATION			er/Operator Information						
Tag or UBI # (if applicable):			Owner/Operator Na							
UST ID # (if ap	plicable):			Business Name: Ro	bystone on Queen Anne LLC						
Site Name:	Roystone Rec	levelopment			06 Maynard Ave S #104						
Site Address:	631 Queen A	Anne Ave No	rth	_{City:} Seattle	State: WA Zip:98104						
_{City:} Seatt	le, Washingto	n		Phone: 425-793-9	9088						
Phone: Not	Applicable (ur	nder constru	ction)	_{Email:} pleung@v	ibrantcities.com						
				vice Provider(s)							
	Check the appropriate boxes. If more than one service provider is required for this project, fill out both sections.										
Note: Individuals performing UST services MUST be ICC-certified or have passed another qualifying exam approved by the Department of Ecology.											
1) 🗌 Ins	1) Installer Decommissioner Site Assessor										
Company Nan	ne:Rivers Edge I	Environmental	Services, Inc.	Certification Type: UST Decommissioning							
Service Provic	ler _{Name:} Dan	Kuhn		Cert. No.: 9291718 Exp. Date: 10/8/21							
Provider Phor	_{ne:} 206-962-0	323		Provider Email: dkuhn@rivers.city							
2) 🗌 Ins	taller 🗌 De	commissioner	Site Asses	sor							
Company Nan	_{ne:} The Riley	Group, Inc.		Certification Type: WA State							
Service Provic	ler _{Name:} Eric	Dunham		Cert. No.: 926152	23 Exp. Date: 7/24/21						
Provider Phor	ne: 425-415-0	551 x303		Provider Email: ed	unham@riley-group.com						
		IV. 1	TANK AND/OR PI	PING INFORMATIO	N						
Tank ID	Τανκ Capacity	Substance Stored	PIPING INSTALLATION OR REPLACEMENT ONLY (Y/N)	Date Project is Expected to Begin	Comments						
UST4A	1066	Petroleum	Ν	5/12/20							
USTA	317	Unknown	Ν	5/12/20]						
					30 day notice Waived. Kale Carlson Department of Ecology UST Inspector 5/11/2020						

30-DAY NOTICE FOR UNDERGROUND STORAGE TANK SYSTEMS

GENERAL INSTRUCTIONS

Under WAC 173-360A-0300, 173-360A-0810 and 173-360A-0820, owners and/or operators are required to notify the Department of Ecology (Ecology) **at least 30 days prior** to beginning underground storage tank (UST) and/or piping installation, decommissioning, or change-in-service projects by mailing this notice to the address below. A separate form must be used for each project type (e.g. install, removal). Once this form is received by Ecology, it is date-stamped and returned to the owner/operator listed on the form. Installation and decommissioning projects cannot begin within the first 30 days after the date stamped on this form <u>unless the wait-period has been waived</u> by a regional Ecology UST inspector. If a project cannot meet the deadlines described below, an additional 30-Day Notice may be required.

Department of Ecology Underground Storage Tank Section PO Box 47655 Olympia, WA 98504-7655

SITE AND OWNER/OPERATOR INFORMATION

Fill in the site/owner information completely. The contact person listed on this form <u>must</u> confirm the exact date an installation or decommissioning project will begin by contacting the regional UST inspector **at least 3 business days** before proceeding.

INSTALLATION/REPLACEMENT OF TANK AND/OR PIPING

Installation projects must begin within 90 days of the date stamped on this notice. Complete the Tank Information section by assigning Tank ID numbers that have not previously been used at the facility. Once processed, this form allows a one-time drop of product for UST system testing purposes only. The fuel drop is not required to occur within the 90-day period. Once your tank(s) store more than one inch of product, leak detection equipment and monitoring must be in place.

To receive additional deliveries and operate the new tanks/piping, you must submit the <u>Business License application</u>, <u>UST</u> <u>Addendum</u>, and the tank/piping Manufacturer's Installation Checklists to the Department of Revenue (DOR) within 30 days of completing the installation. This activates the mailing of your Business License with tank endorsement(s) from DOR and the facility compliance tag from Ecology.

If <u>only</u> piping is being installed or replaced piping, the ICC-certified installer must certify the installation by completing the <u>Retrofit/Repair Checklist</u> with the Manufacturer's Installation Checklist and submitting it to the owner/operator. The form packet must be submitted by the owner/operator to Ecology **within 30 days** of completing the piping installation.

PERMANENT CLOSURE OF TANK AND/OR PIPING

Decommissioning projects must be completed within 90 days after the date stamped on this returned notice. Complete the Tank Information section using Tank ID numbers listed on the Business License. Use the Comments box to include additional information, such as the date when product was removed from both the piping and the tank to less than one inch.

Contact your local fire marshal and planning department prior to tank closure to procure any permits required by county or other local jurisdictions. Compliance with the State Environmental Policy Act (SEPA) Rules, Chapter 197-11 WAC may also apply.

A site assessment is required at the time of closure. If contamination is <u>not</u> discovered, a site assessment report must be submitted to the above address **within 30 days**. If contamination <u>is</u> discovered or confirmed, it must be reported to the appropriate Ecology regional office **within 24 hours** and a site characterization report must be submitted to the above address **within 90 days**.

The following are some examples of tanks that are exempt from the UST regulations.

- Farm or residential tanks, 1,100 gallons or less, used to store motor fuel for personal or farm use only. The fuel must be used for farm purposes and cannot be for resale.
- Tanks used for storing heating oil that is used solely for the purpose of heating the premises.
- ✤ Tanks with a capacity of 110 gallons or less.
- Emergency overflow tanks, catch basins, or sumps.

If you need this document in a format for the visually impaired, call Toxics Cleanup Program at (360) 407-7170. Persons with hearing loss can call 711 for Washington Relay Service. Persons with speech disability, call (877) 833-6341.



30-DAY NOTICE FOR UNDERGROUND STORAGE TANK SYSTEMS

This form provides Ecology 30-days' advanced notice for projects, as required

by Chapter 173-360A WAC. Instructions are on the back page.

UST ID #: 100599

County: King

RECEIVED

MAR 0 6 2020

Please ✓ the a	appropriate box:	Intent to	o Install	Intent to Close	Change-in-Service - NWRO						
	I. SITE INFO	RMATION		II. Own	er/Operator Information						
Tag or UBI #	(if applicable):		*	Owner/Operator Na	ame: Pui Leung						
UST ID # (if a	pplicable): 1005	599	I.	Business Name: Ro	bystone on Queen Anne LLC						
Site Name: F	Roystone Rede	evelopment		Mailing Address: 6(06 Maynard Ave S #104						
Site Address:	631 Queen A	Anne Ave N		City: Seattle	State: WA Zip: 98104						
City: Seattl	e, Washington	98109		Phone: 425-793-	9088						
Phone: Not	Applicable (va	acant)		Email: pleung@v	vibrantcities.com						
	III. CERTIFIED SERVICE PROVIDER(S) Check the appropriate boxes. If more than one service provider is required for this project, fill out both sections.										
	Note: Individuals performing UST services MUST be ICC-certified or have passed another qualifying exam approved by the Department of Ecology.										
1) 🗌 Ins	staller 🛛 📕 De	commissioner	Site Asse	essor							
Company Na	me: Rivers Edge	Environmenta	l Services, Inc.	Certification Type: L	JST Decommissioning						
Service Provid	^{der Name:} Dan I	Kuhn		Cert. No.: 9291718 Exp. Date: 10/8/21							
Provider Pho	^{ne:} 206-962-03	23	2	Provider Email: dku	hn@rivers.city						
2) 🗌 Ins	staller 🗌 Deo	commissioner	Site Asse	essor							
Company Nai	me: The Riley	Group, In	C.	Certification Type: WA State Site Assessment							
Service Provid	der Name: Loga	an Chinn		Cert. No.: 8868032 Exp. Date: 1/15/2022							
Provider Pho	ne:425-415-0)551 x 303	3	Provider Email: Ichinn@riley-group.com							
		IV. 1	Tank and/or F	PIPING INFORMATION	1						
			PIPING								
TANK ID	ΤΑΝΚ CAPACITY	SUBSTANCE STORED	INSTALLATION O REPLACEMENT ONLY (Y/N)	R DATE PROJECT IS EXPECTED TO BEGIN	COMMENTS						
6B	8,000 gallon		Ν	3/24/20	UST 6B was reportedly						
	e actual capacity of s 3,455-gallons	the UST6 <u>B</u>			decommissioned and closed in place in the 1990's. However,						
<u>9/2</u>	5/20 Jun Hil				no official record exists. UST 6B						
				n - 1	will be decommissioned and removed in accordance with						
					applicable UST regulations.						
				2-0-0							
				DO - Day No	otice Walved!						
				a certo ale	1 3/1/						

the dept. of coology usi impector.

30-DAY NOTICE

FOR UNDERGROUND STORAGE TANK SYSTEMS

RECEIVED

GENERAL INSTRUCTIONS

Under WAC 173-360A-0300, 173-360A-0810 and 173-360A-0820, owners and/or operators are required to notify the Department of Ecology (Ecology) **at least 30 days prior** to beginning underground storage tank (UST) and/or piping installation, decommissioning, or change-in-service projects by mailing this notice to the address below. A separate form must be used for each project type (e.g. install, removal). Once this form is received by Ecology, it is date-stamped and returned to the owner/operator listed on the form. Installation and decommissioning projects cannot begin within the first 30 days after the date stamped on this form <u>unless the wait-period has been waived</u> by a regional Ecology UST inspector. If a project cannot meet the deadlines described below, an additional 30-Day Notice may be required.

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SITE AND OWNER/OPERATOR INFORMATION

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INSTALLATION/REPLACEMENT OF TANK AND/OR PIPING

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To receive additional deliveries and operate the new tanks/piping, you must submit the <u>Business License application</u>, <u>UST</u> <u>Addendum</u>, and the tank/piping Manufacturer's Installation Checklists to the Department of Revenue (DOR) within 30 days of completing the installation. This activates the mailing of your Business License with tank endorsement(s) from DOR and the facility compliance tag from Ecology.

If <u>only</u> piping is being installed or replaced piping, the ICC-certified installer must certify the installation by completing the <u>Retrofit/Repair Checklist</u> with the Manufacturer's Installation Checklist and submitting it to the owner/operator. The form packet must be submitted by the owner/operator to Ecology within 30 days of completing the piping installation.

PERMANENT CLOSURE OF TANK AND/OR PIPING

Decommissioning projects must be completed within 90 days after the date stamped on this returned notice. Complete the Tank Information section using Tank ID numbers listed on the Business License. Use the Comments box to include additional information, such as the date when product was removed from both the piping and the tank to less than one inch.

Contact your local fire marshal and planning department prior to tank closure to procure any permits required by county or other local jurisdictions. Compliance with the State Environmental Policy Act (SEPA) Rules, Chapter 197-11 WAC may also apply.

A site assessment is required at the time of closure. If contamination is <u>not</u> discovered, a site assessment report must be submitted to the above address **within 30 days**. If contamination <u>is</u> discovered or confirmed, it must be reported to the appropriate Ecology regional office **within 24 hours** and a site characterization report must be submitted to the above address **within 90 days**.

The following are some examples of tanks that are exempt from the UST regulations.

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- * Tanks used for storing heating oil that is used solely for the purpose of heating the premises.
- Tanks with a capacity of 110 gallons or less.
- Emergency overflow tanks, catch basins, or sumps.

If you need this document in a format for the visually impaired, call Toxics Cleanup Program at (360) 407-7170. Persons with hearing loss can call 711 for Washington Relay Service. Persons with speech disability, call (877) 833-6341.

From:	Carlson, Kale (ECY)
To:	Jerry Sawetz; Song, Jing (ECY)
Subject:	RE: Roystone Redevelopment UST6B Waiver and Decommissioning of USTA and UST4A (Agreed Order No 16357)
Date:	Tuesday, June 2, 2020 2:26:15 PM
Attachments:	image001.png image002.jpg image004.jpg

Yes Jerry, that is perfectly fine. We know that this is a big job with many wild cards in the mix. Please keep us up to date when there is a plan.

I will archive this email with the 30-day notice as proof of notification.

Thank you, Kale Carlson Underground Storage Tank Inspector Washington State Department of Ecology p: (425) 649-7290 |cell: (425) 417-6319 | e: KACA461@ecy.wa.gov

From: Jerry Sawetz <JSawetz@Riley-Group.com>
Sent: Tuesday, June 2, 2020 1:34 PM
To: Carlson, Kale (ECY) <KACA461@ECY.WA.GOV>; Song, Jing (ECY) <JISO461@ECY.WA.GOV>
Subject: Roystone Redevelopment UST6B Waiver and Decommissioning of USTA and UST4A (Agreed
Order No 16357)

THIS EMAIL ORIGINATED FROM OUTSIDE THE WASHINGTON STATE EMAIL SYSTEM - Take caution not to open attachments or links unless you know the sender AND were expecting the attachment or the link

Hi Jing & Kale,

It appears that we found what we suspect is UST6B (8,000-gallon diesel UST) on the eastern portion of the property near the property boundary. Previous reports indicate that this UST was abandoned in place, but we plan to go through the standard decommissioning/site assessment process as previously discussed. The top of the UST is approximately 6 feet below current ground surface and the general contractor will not be in a position to expose the UST until sometime next week. We also have not coordinated the schedule for the decommissioning. We previously requested a waiver for decommissioning UST6B and the approval is attached. Is it acceptable for us to use the attached 30-day notice waiver and notify both of you when we confirm the decommissioning schedule?

Also, we completed the decommissioning/site assessment of USTA and UST4A yesterday. No significant evidence of contamination was observed in either of the UST excavations based on field screening. However, soil beneath UST4A was potentially contaminated and we are waiting on analytical results to confirm. Please let me know if you have any questions.

Thanks, Jerry Sawetz | Senior Environmental Scientist | The Riley Group, Inc. Office: 425-415-0551 | Fax: 425-415-0311 | Cell: 425-301-1227

From: Carlson, Kale (ECY) [mailto:KACA461@ECY.WA.GOV]
Sent: Monday, March 09, 2020 2:48 PM
To: Jerry Sawetz <<u>JSawetz@Riley-Group.com</u>>
Subject: RE: Roystone Redevelopment UST (Agreed Order No 16357)

Hi Jerry,

Looks good. Your 30-day notice has been waived. Just a reminder, during the project the correct certificate holders need to be onsite during their respectful parts of their jobs.

Again, just shoot me a heads up on what day the tank will be pulled out of ground when you know.

Thank you and good luck with your project. Be safe. **Kale Carlson Underground Storage Tank Inspector Washington State Department of Ecology p:** (425) 649-7290 |cell: (425) 417-6319| **e:** <u>KACA461@ecy.wa.gov</u>

From: Jerry Sawetz <<u>JSawetz@Riley-Group.com</u>>
Sent: Friday, March 6, 2020 3:20 PM
To: Carlson, Kale (ECY) <<u>KACA461@ECY.WA.GOV</u>>
Cc: Song, Jing (ECY) <<u>JISO461@ECY.WA.GOV</u>>
Subject: RE: Roystone Redevelopment UST (Agreed Order No 16357)

THIS EMAIL ORIGINATED FROM OUTSIDE THE WASHINGTON STATE EMAIL SYSTEM - Take caution not to open attachments or links unless you know the sender AND were expecting the attachment or the link

Hi Kale,

Attached is the 30-day notice form for the Roystone Development project. We do not know the exact date for this work yet, but estimate it will be in about 2 to 3 weeks. Please let us know if you need any additional information from us and I will update you when we have the date confirmed for the UST decommissioning.

Thanks,

Jerry Sawetz | Senior Environmental Scientist | The Riley Group, Inc. Office: 425-415-0551 | Fax: 425-415-0311 | Cell: 425-301-1227

From: Carlson, Kale (ECY) [mailto:KACA461@ECY.WA.GOV]
Sent: Wednesday, March 04, 2020 3:48 PM
To: Jerry Sawetz <<u>JSawetz@Riley-Group.com</u>>
Cc: Song, Jing (ECY) <<u>JISO461@ECY.WA.GOV</u>>
Subject: RE: Roystone Redevelopment UST (Agreed Order No 16357)

Hi Jerry,

We will still need you to fill out the 30 day notice form for "intent to close" and send it to me (email works). I will give it a look over, waive the notice, and I will make a copy for you and keep one for myself.

UST ID # 100599

Please follow the rules under permanent closure of tank and/or piping and "Individuals performing UST services MUST be ICC-certified or have passed another qualifying exam approved by the Department of Ecology."

We should be able to accomplish all of this within a timely manner as to not delay the project and all I ask is to please keep me informed of when the tank will be pulled out of the ground.

30 Day notice <u>https://fortress.wa.gov/ecy/publications/SummaryPages/ECY02095.html</u>

If you have any other questions please fill free to call or email.

Thank you,

Kale Carlson Underground Storage Tank Inspector Toxics Cleanup Program, Northwest Regional Office p: (425) 649-7290 |cell: (425) 417-6319 |fax: (425) 649-7098 | e: KACA461@ecy.wa.gov | www.ecy.wa.gov Washington State Department of Ecology 3190 160th Ave SE | Bellevue, Washington 98008-5452 ecylogo-wide-color-small-transp



From: Jerry Sawetz <<u>JSawetz@Riley-Group.com</u>>
Sent: Wednesday, March 4, 2020 3:08 PM
To: Carlson, Kale (ECY) <<u>KACA461@ECY.WA.GOV</u>>
Cc: Song, Jing (ECY) <<u>JISO461@ECY.WA.GOV</u>>
Subject: Roystone Redevelopment UST (Agreed Order No 16357)

THIS EMAIL ORIGINATED FROM OUTSIDE THE WASHINGTON STATE EMAIL SYSTEM - Take caution not to open attachments or links unless you know the sender AND were expecting the attachment or the link

Hi Kale,

We have a project located at 631 Queen Anne Ave N in Seattle that is under an Agreed Order with Ecology and Jing Song is the project manager. We have a 6,000-gallon UST that was reportedly closed in place during remediation in the 1990's. However, the UST is not registered with Ecology and Jing indicated that we need to complete the permanent closure requirement. Jing suggested I contact you to request that the 30 day notice period be waived. This project has already been delayed due to city permitting issues and we would like to avoid any further delays. Would you please let me know what paperwork we need to submit to Ecology to bypass the 30 day waiting period for decommissioning, assessment, and removal of this UST? Construction is scheduled to begin in the location of the UST in approximately 3 weeks and we would like to have all the necessary paperwork to Ecology well before then and complete the decommissioning, assessment, and removal of the UST at that time to avoid construction delays. Please feel free to call me if you would like to discuss and I appreciate your assistance with this matter.

Thanks,

Jerry Sawetz | Senior Environmental Scientist | jsawetz@riley-group.com Office: 425-415-0551 | Fax: 425-415-0311 | Cell: 425-301-1227

17522 Bothell Way NE Bothell, Washington 98011 *Dynamic firm. Creative solutions.*

This communication (including any attachments) may contain privileged or confidential information intended for a specific individual and purpose, and is protected by law. If you are not the intended recipient, you should delete this communication and/or shred the materials and any attachments and are hereby notified that any disclosure, copying, or distribution of this communication, or the taking of any action based on it, is strictly prohibited.

		Mon, 06/01/2020
		@ 10:00
Your Seattle		e in the
Fire Department		
-	PLICATION FOR TEMPORARY F	PERMIT
Code 7908 Comm	nercial Tank Removal/Decomn	nissioning / /
Permit Fee: \$288.00 TO BE COMPLETED BY PERMIT APPLICANT	T Tank(s) must be removed fr	Date Issued:
BUSINESS NAME: Marine Vacuu	Im Service Inc.	
MAILING ADDRESS: PO Box 242	63	SUITE:
crry: Seattle	STATE: WA	ZIP: 98124
JOBSITE ADDRESS: 631 Queen A	Ann Ave N	· · · · ·
CONTACT PERSON: Tom Myler	PHONE NUMBER:	(206) 953-3907
Number of Tank(s): 2 Ta	nk Size(s): Approx 500	Aboveground tank
Product(s) Previously Contained:	Petroleum	Underground tank
Removal (Marine Chemist inspection)	and certificate required for all tanks regard	dless of size or contents)
	nist certificate required for tanks previously	
Hot work being conducted:	No 🗌 Yes (If yes, a sepa	arate hot work permit is required)
ermit applications may be submitted in pers	son weekdays from 8:00 a.m. to 4:30 p.m., or	mailed to:
Seattle Fire Department	To pay with a Visa or Master Card, email t	
Fire Marshal's Office – Permits 220 Third Ave S, 2 nd Floor	THEN CALL US TO CONFIRM RECEIPT AND Tel: (206) 386-1450	MAKE PAYMENT.
	161. (200) 380-1430	
Seattle, WA 98104-2608	E-mail: permits@seattle.gov	
	E-mail: <u>permits@seattle.gov</u> 4 hours prior to needed inspection tim	e to arrange for an appointment.
Call 206-386-1450, at least 24		
Call 206-386-1450, at least 24 TANKS MAY BE REMOVED	4 hours prior to needed inspection tim D/DECOMMISSIONED ONLY AFTER FIF	
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Tom Myler

From:permits@seattle.govSent:Friday, June 5, 2020 2:39 PMTo:Tom MylerSubject:[Seattle Fire Department] Online Payment Confirmation

Hello TOM MYLER,

The following payment for \$288.00 was successfully processed on 6/5/2020 2:38:32 PM

Your receipt number is 00018646060520.

Your authorization number is 615083.

This email will serve as your receipt.

TRANSACTION DETAIL

MARINE VACUUM SERVICES PERMIT CODE 7908 631 QUEEN ANNE AVE N Amount Charged : \$288.00

BILLING ADDRESS

TOM MYLER

PO BOX 24263

SEATTLE, WA 98124

Phone: 206-953-3907

BILLING INFORMATION

Card Name: TOM MYLER

Payment: VS, xxxxxxxx8546, 01/2025

APPENDIX B

FINAL ANALYTICAL LABORATORY REPORTS



ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

April 1, 2020

Jerry Sawetz, Project Manager The Riley Group, Inc. 17522 Bothell Way NE Bothell, WA 98011

Dear Mr Sawetz:

Included are the results from the testing of material submitted on March 26, 2020 from the Roystone 2017-015, F&BI 003422 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Cale

Michael Erdahl Project Manager

Enclosures c: Logan Chinn TRG0401R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 26, 2020 by Friedman & Bruya, Inc. from the The Riley Group Roystone 2017-015, F&BI 003422 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>The Riley Group</u>
003422 -01	PP1-UST5B-2.5
003422 -02	PP2-UST5B-0.5
003422 -03	Disp 1-0.5
003422 -04	Disp 2-0.5

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/20 Date Received: 03/26/20 Project: Roystone 2017-015, F&BI 003422 Date Extracted: 03/26/20 Date Analyzed: 03/27/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (<u>% Recovery</u>) (Limit 50-150)
PP1-UST5B-2.5 003422-01 1/5	<0.02 j	0.41	<0.1	<0.3	130	94
PP2-UST5B-0.5 003422-02	< 0.02	< 0.02	< 0.02	< 0.06	<5	89
$\underset{003422-03}{\text{Disp 1-0.5}}$	< 0.02	< 0.02	< 0.02	< 0.06	<5	91
$\begin{array}{c} {\rm Disp\ 2-0.5}_{003422\text{-}04}\end{array}$	< 0.02	< 0.02	< 0.02	<0.06	<5	92
Method Blank 00-661 MB2	< 0.02	< 0.02	< 0.02	< 0.06	<5	90

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/20 Date Received: 03/26/20 Project: Roystone 2017-015, F&BI 003422 Date Extracted: 03/26/20 Date Analyzed: 03/26/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sumorato

<u>Sample ID</u> Laboratory ID	Diesel Range (C10-C25)	Motor Oil Range (C25-C36)	Surrogate (<u>% Recovery)</u> (Limit 53-144)
PP1-UST5B-2.5 003422-01	390	<250	85
PP2-UST5B-0.5 003422-02	<50	<250	87
$\underset{003422\text{-}03}{\text{Disp 1-}0.5}$	<50	<250	93
$\underset{003422-04}{\text{Disp }2-0.5}$	<50	<250	89
Method Blank ^{00-754 MB}	<50	<250	83

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/20 Date Received: 03/26/20 Project: Roystone 2017-015, F&BI 003422

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 003327-04 (Duplicate)

	Reporting	Sample Result	Duplicate Result	RPD
Analyte	Units	(Wet Wt)	(Wet Wt)	(Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

		Percent		
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	104	69-120
Toluene	mg/kg (ppm)	0.5	104	70-117
Ethylbenzene	mg/kg (ppm)	0.5	103	65 - 123
Xylenes	mg/kg (ppm)	1.5	108	66-120
Gasoline	mg/kg (ppm)	20	100	71-131

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/20 Date Received: 03/26/20 Project: Roystone 2017-015, F&BI 003422

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code:	003420-01 (Matri	x Spike)					
			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	116	110	64-133	5
Laboratory Code:	Laboratory Contr	rol Samp	le				
			Percent	t			
	Reporting	Spike	Recover	y Accep	tance		
Analyte	Units	Level	LCS	Crit	eria		
Diesel Extended	mg/kg (ppm)	5,000	106	58-1	147		

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

 ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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Sample ID	Lab ID	Date Sampled	Tïme Sampled	Sample Type	# of Jars	استساع	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082]	Notes	
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PP2-USTSB-0.5	02 1		8:15	1	<u> </u>	$\left X \right $	\times	X									-		
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Seattle, WA 98119-2029	Relinquished by:							0											
Ph. (206) 285-8282	Received by:		V														<u> </u>	L	

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

May 13, 2020

Jerry Sawetz, Project Manager The Riley Group, Inc. 17522 Bothell Way NE Bothell, WA 98011

Dear Mr Sawetz:

Included are the results from the testing of material submitted on May 7, 2020 from the Roystone Redevelopment 2017-015k, F&BI 005087 project. There are 15 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Mingta Lin, Eric Dunham TRG0513R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 7, 2020 by Friedman & Bruya, Inc. from the The Riley Group Roystone Redevelopment 2017-015k, F&BI 005087 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>The Riley Group</u>
005087 -01	WPL-1S-8
005087 -02	PP1-NPL-2
005087 -03	WPL-2S-8
005087 -04	WPL-3S-8
005087 -05	PP1-UST4-1.5

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/13/20 Date Received: 05/07/20 Project: Roystone Redevelopment 2017-015k, F&BI 005087 Date Extracted: 05/07/20 Date Analyzed: 05/07/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID

Results Reported on a Dry Weight Basis Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate <u>(% Recovery)</u> (Limit 48-168)
PP1-UST4-1.5 005087-05 05-07-20 14:41	D	ND	D	88
Method Blank ^{00-1034 MB}	ND	ND	ND	106

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/13/20 Date Received: 05/07/20 Project: Roystone Redevelopment 2017-015k, F&BI 005087 Date Extracted: 05/07/20 Date Analyzed: 05/08/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (<u>% Recovery</u>) (Limit 50-150)
PP1-UST4-1.5 005087-05 1/10	1,200	131
Method Blank 00-877 MB	<5	93

ENVIRONMENTAL CHEMISTS

Date of Report: 05/13/20 Date Received: 05/07/20 Project: Roystone Redevelopment 2017-015k, F&BI 005087 Date Extracted: 05/07/20 Date Analyzed: 05/08/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (<u>% Recovery</u>) (Limit 50-150)
WPL-1S-8 005087-01	< 0.02	< 0.02	< 0.02	<0.06	<5	82
PP1-NPL-2 005087-02	< 0.02	< 0.02	< 0.02	< 0.06	<5	84
WPL-2S-8 005087-03	< 0.02	< 0.02	< 0.02	< 0.06	<5	84
WPL-3S-8 005087-04	< 0.02	< 0.02	< 0.02	<0.06	<5	84
Method Blank 00-877 MB	< 0.02	< 0.02	< 0.02	<0.06	<5	84

ENVIRONMENTAL CHEMISTS

Date of Report: 05/13/20 Date Received: 05/07/20 Project: Roystone Redevelopment 2017-015k, F&BI 005087 Date Extracted: 05/07/20 Date Analyzed: 05/07/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

<u>Sample ID</u> Laboratory ID	Diesel Range (C10-C25)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	Surrogate <u>(% Recovery)</u> (Limit 53-144)
WPL-1S-8 005087-01	<50	<250	92
PP1-NPL-2 005087-02	<50	<250	98
WPL-2S-8 005087-03	<50	750	92
WPL-3S-8 005087-04	<50	<250	81
Method Blank ^{00-1031 MB}	<50	<250	83

ENVIRONMENTAL CHEMISTS

Date of Report: 05/13/20 Date Received: 05/07/20 Project: Roystone Redevelopment 2017-015k, F&BI 005087 Date Extracted: 05/07/20 Date Analyzed: 05/07/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL USING METHOD NWTPH-Dx

<u>Sample ID</u> Laboratory ID	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	Surrogate <u>(% Recovery)</u> (Limit 53-144)	
$\begin{array}{c} \text{PP1-UST4-1.5} \\ _{005087-05} \end{array}$	1,400	91	
Method Blank ^{00-1031 MB}	<50	83	

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	PP1-UST4-1.5	Client:	The Riley Group
Date Received:	05/07/20	Project:	Roystone Redevelopment 2017-015k
Date Extracted:	05/08/20	Lab ID:	005087-05
Date Analyzed:	05/08/20	Data File:	005087-05.034
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Onits: Analyte:	mg/kg (ppm) Dry Weight Concentration mg/kg (ppm)	Operator:	SP

Lead

9.62

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	The Riley Group
Date Received:	NA	Project:	Roystone Redevelopment 2017-015k
Date Extracted:	05/08/20	Lab ID:	I0-263 mb
Date Analyzed:	05/08/20	Data File:	I0-263 mb.032
Matrix:	Soil	Instrument:	ICPMS2
Units: Analyte: Lead	mg/kg (ppm) Dry Weight Concentration mg/kg (ppm) <1	Operator:	SP

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	PP1-UST4- 05/07/20 05/07/20 05/09/20 Soil mg/kg (ppn	1.5 n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone Redevelopment 2017-015k 005087-05 050891.D GCMS4 MS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 100 100 103	Lower Limit: 62 55 65	Upper Limit: 145 145 139
Compounds:		Concentration mg/kg (ppm)		
Hexane		< 0.25		
Methyl t-butyl ethe		< 0.05		
1,2-Dichloroethane	(EDC)	< 0.05		
Benzene		< 0.03		
Toluene		< 0.05		
1,2-Dibromoethane	e (EDB)	< 0.05		
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		0.46		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blan Not Applica 05/07/20 05/07/20 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone Redevelopment 2017-015k 00-994 mb 050709.D GCMS4 MS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz Compounds:	ene	% Recovery: 104 112 100 Concentration mg/kg (ppm)	Lower Limit: 62 55 65	Upper Limit: 145 145 139
Hexane Methyl t-butyl etho 1,2-Dichloroethane Benzene Toluene 1,2-Dibromoethane Ethylbenzene m,p-Xylene o-Xylene Naphthalene	e (EDC)	<0.25 <0.05 <0.03 <0.05 <0.05 <0.05 <0.05 <0.1 <0.05 <0.05		

ENVIRONMENTAL CHEMISTS

Date of Report: 05/13/20 Date Received: 05/07/20 Project: Roystone Redevelopment 2017-015k, F&BI 005087

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 005087-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	97	69-120
Toluene	mg/kg (ppm)	0.5	97	70-117
Ethylbenzene	mg/kg (ppm)	0.5	96	65 - 123
Xylenes	mg/kg (ppm)	1.5	101	66-120
Gasoline	mg/kg (ppm)	20	100	71-131

ENVIRONMENTAL CHEMISTS

Date of Report: 05/13/20 Date Received: 05/07/20 Project: Roystone Redevelopment 2017-015k, F&BI 005087

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code:	005072-01 (Matri	x Spike)					
			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	46,000	180 b	100 b	64-133	57 b
	0041 /						
Laboratory Code:	Laboratory Contr	rol Samp	le				
Laboratory Code:	Laboratory Contr	ol Samp	le Percent	i			
Laboratory Code:	Laboratory Contr Reporting	ol Samp Spike			tance		
Laboratory Code: Analyte	_	-	Percent				

ENVIRONMENTAL CHEMISTS

Date of Report: 05/13/20 Date Received: 05/07/20 Project: Roystone Redevelopment 2017-015k, F&BI 005087

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 005087-05 x5 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Lead	mg/kg (ppm)	50	9.05	91	95	75 - 125	4

Laboratory Code: Laboratory Control Sample

Laboratory Co	Jue. Laboratory Com	and Sample	Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Lead	mg/kg (ppm)	50	103	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 05/13/20 Date Received: 05/07/20 Project: Roystone Redevelopment 2017-015k, F&BI 005087

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 005019-02 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	\mathbf{MS}	MSD	Criteria	(Limit 20)
Hexane	mg/kg (ppm)	2.5	< 0.25	63	71	10-137	12
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	< 0.05	92	100	21 - 145	8
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	< 0.05	88	96	12 - 160	9
Benzene	mg/kg (ppm)	2.5	< 0.03	89	95	29 - 129	7
Toluene	mg/kg (ppm)	2.5	< 0.05	76	81	35 - 130	6
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	< 0.05	84	90	28-142	7
Ethylbenzene	mg/kg (ppm)	2.5	< 0.05	78	84	32 - 137	7
m,p-Xylene	mg/kg (ppm)	5	< 0.1	81	88	34 - 136	8
o-Xylene	mg/kg (ppm)	2.5	< 0.05	81	89	33 - 134	9
Naphthalene	mg/kg (ppm)	2.5	< 0.05	76	85	14 - 157	11

Laboratory Code: Laboratory Control Sample

	I I I I I I I		Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Hexane	mg/kg (ppm)	2.5	94	43 - 142
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	108	60 - 123
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	102	56 - 135
Benzene	mg/kg (ppm)	2.5	104	68-114
Toluene	mg/kg (ppm)	2.5	89	66 - 126
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	96	74 - 132
Ethylbenzene	mg/kg (ppm)	2.5	92	64 - 123
m,p-Xylene	mg/kg (ppm)	5	96	78 - 122
o-Xylene	mg/kg (ppm)	2.5	97	77 - 124
Naphthalene	mg/kg (ppm)	2.5	90	63-140

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Report To Jerry	Sametz		SAMPI	LERS (sign	ature)	9	' <	$\overline{\mathcal{I}}$		_					14. ar 14	Tage	#	AUZ
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City, State, ZIP PhoneE	Jsawetz Q nail edinhan e	riley-grap.	REMAR ASA Project	RKS Lon Specific RI	P1-U s? - Y1	/ \$ T ¹ es_/	1-1.9 No		I	NVC	DICE	TO			□ Arc	SAN chive her_	APLE DIS samples Dispose a	POSAL
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Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	1	VOCs EPA 8260	1	PCBs EPA 8082	r	T				Notes
WPL-15-8	OI A.E	5/5	1530	SOIL	5	Х	X	X								<u> </u>	(x)-pe	· <u>Js</u> Had ne
PPI-NPL-2	02	5/6	1300			· ,		X		_			· ·			<u> </u>	<u> </u>	170 ME
WPL-25-8	03	5/6	1500			X	刻	$\frac{1}{\lambda}$								<u> </u>		
WPL-35-8	04	5/6	1515					X	-									
PP1- VST4-1.5	DS V	517	1200	V	V	$\overline{\mathbf{x}}$	8		X	7			R	(\mathcal{R})			ASA	
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Friedman & Bruya, Inc.	Relinquished by:	M		Ere T	Junk				¢,		P2;	12.		TMP			<u>DATE</u> 517-	140
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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

May 14, 2020

Jerry Sawetz, Project Manager The Riley Group, Inc. 17522 Bothell Way NE Bothell, WA 98011

Dear Mr Sawetz:

Included are the results from the testing of material submitted on May 11, 2020 from the Roystone 2017-015K, F&BI 005122 project. There are 23 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Eric Dunham, Mingta Lin TRG0514R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 11, 2020 by Friedman & Bruya, Inc. from the The Riley Group Roystone 2017-015K, F&BI 005122 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>The Riley Group</u>
005122 -01	UST-4A-Product
005122 -02	UST-A-Product

An 8270E internal standard failed the acceptance criteria for sample UST-A-Product. The sample was diluted and reanalyzed with acceptable results. Both data sets were reported.

The 8260D laboratory control sample exceeded the acceptance criteria for 2,2dichloropropane. The compound was not detected, therefore the data were acceptable.

All other quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/14/20 Date Received: 05/11/20 Project: Roystone 2017-015K, F&BI 005122 Date Extracted: 05/11/20 Date Analyzed: 05/11/20

RESULTS FROM THE ANALYSIS OF SOIL/PRODUCT SAMPLES FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate <u>(% Recovery)</u> (Limit 53-144)
UST-4A-Product 005122-01 1/10	ND	D	ND	ip
UST-A-Product 005122-02 1/10	D	ND	D	94
Method Blank ^{00-1043 MB}	ND	ND	ND	93

ND - Material not detected at or above 20,000 mg/kg gas, 50,000 mg/kg diesel and 250,000 mg/kg heavy oil.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/14/20 Date Received: 05/11/20 Project: Roystone 2017-015K, F&BI 005122 Date Extracted: 05/11/20 Date Analyzed: 05/12/20

RESULTS FROM THE ANALYSIS OF SOIL/PRODUCT SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING METHOD 8021B

Ethyl Total Surrogate Sample ID Benzene Toluene Benzene Xylenes (% Recovery) Laboratory ID (Limit 50-150) **UST-4A-Product** < 0.23.5< 0.27593 005122-01 Method Blank < 0.02 < 0.02 < 0.02 < 0.06 85 00-880 MB

Results Reported as mg/kg (ppm)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	UST-A-Product 05/11/20 05/12/20 05/12/20 Soil/Product mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone 2017-015K 005122-02 005122-02.037 ICPMS2 SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	<1		
Cadmium	<1		
Chromium	<1		
Lead	409 ve		
Mercury	<1		

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix:	UST-A-Product 05/11/20 05/12/20 05/13/20 Soil/Product	Client: Project: Lab ID: Data File: Instrument:	The Riley Group Roystone 2017-015K 005122-02 x10 005122-02 x10.048 ICPMS2 SD
Units:	mg/kg (ppm)	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		

Lead

390

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank NA 05/12/20 05/12/20 Soil/Product mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone 2017-015K I0-270 mb2 I0-270 mb2.036 ICPMS2 SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	<1		
Cadmium	<1		
Chromium	<1		
Lead	<1		
Mercury	<1		

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	UST-A-Product	Client:	The Riley Group
Date Received:	05/11/20	Project:	Roystone 2017-015K
Date Extracted:	05/12/20	Lab ID:	005122-02
Date Analyzed:	05/13/20 12:19:32	Data File:	005122-02.046
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP
Analyte:	Concentration mg/L (ppm)	TCLP Lin	nit
Lead	2.75	5.0	

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID:	Method Blank	Client:	The Riley Group
Date Received:	Not Applicable	Project:	Roystone 2017-015K
Date Extracted:	05/12/20	Lab ID:	I0-273 mb
Date Analyzed:	05/13/20 11:46:04	Data File:	I0-273 mb.039
Matrix:	Soil/Solid	Instrument:	ICPMS2
Units:	mg/L (ppm)	Operator:	SP
Analyte:	Concentration mg/L (ppm)	TCLP Lin	nit
Lead	<1	5.0	

8

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	UST-A-Proc 05/11/20 05/12/20 05/13/20 Soil/Product mg/kg (ppm	t	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone 2017-015K 005122-02 1/200 051310.D GCMS9 MS	
a			Lower	Upper	
Surrogates:	14	% Recovery:	Limit:	Limit:	
1,2-Dichloroethane Toluene-d8	-04	$\begin{array}{c} 103 \\ 105 \end{array}$	$50\\50$	$\begin{array}{c} 150 \\ 150 \end{array}$	
4-Bromofluorobenz	ono	$103 \\ 104$	50 50	150 150	
4-Dromonuorobenz	ene		50	100	
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluorome	thane	<100	1,3-Dich	loropropane	<10
Chloromethane		<100	Tetrachl	oroethene	31
Vinyl chloride		<10	Dibromo	ochloromethane	<10
Bromomethane		<100		omoethane (EDB)	<10
Chloroethane		<100	Chlorobe	enzene	<10
Trichlorofluoromet	hane	<100	Ethylber		120
Acetone		<1,000		Cetrachloroethane	<10
1,1-Dichloroethene		<10	m,p-Xyle		600
Hexane		70	o-Xylene	9	270
Methylene chloride		<100	Styrene		<10
Methyl t-butyl ethe		<10		vlbenzene	41
trans-1,2-Dichloroe		<10	Bromofo		<10
1,1-Dichloroethane		<10	n-Propy		100
2,2-Dichloropropan		<10	Bromobe		<10
cis-1,2-Dichloroeth	ene	<10		imethylbenzene	320
Chloroform		<10		etrachloroethane	<10
2-Butanone (MEK)		<100		ichloropropane	<10
1,2-Dichloroethane		<10	2-Chloro		<10
1,1,1-Trichloroetha		<10	4-Chloro		<10 <10
1,1-Dichloropropen Carbon tetrachlorid		<10 <10		ylbenzene imethylbenzene	1,100
Benzene	le	<10 26		lbenzene	40
Trichloroethene		8.0		pyltoluene	40 64
1,2-Dichloropropan	Δ	<10		lorobenzene	<10
Bromodichlorometh		<10		lorobenzene	<10
Dibromomethane	lane	<10		lorobenzene	<10
4-Methyl-2-pentane	one	<100		omo-3-chloropropane	<100
cis-1,3-Dichloropro		<10		ichlorobenzene	<50
Toluene	F	210		orobutadiene	<50
trans-1,3-Dichlorop	propene	<10	Naphtha		420
1,1,2-Trichloroetha		<10	_	ichlorobenzene	<50
2-Hexanone		<100			

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Date Received:NotDate Extracted:05/1Date Analyzed:05/1Matrix:Soil	hod Blank Applicable 2/20 2/20 /Product kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone 2017-015K 00-1010 mb 051210.D GCMS4 MS	
		Lower	Upper	
Surrogates:	% Recovery:	Limit:	Limit:	
1,2-Dichloroethane-d4	102	62	145	
Toluene-d8	105	55	145	
4-Bromofluorobenzene	100	65	139	
Compounds:	Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	e <0.5	1,3-Dich	loropropane	< 0.05
Chloromethane	< 0.5		loroethene	< 0.025
Vinyl chloride	< 0.05	Dibromo	ochloromethane	< 0.05
Bromomethane	< 0.5	1,2-Dibr	omoethane (EDB)	< 0.05
Chloroethane	< 0.5	Chlorob	enzene	< 0.05
Trichlorofluoromethane	< 0.5	Ethylber		< 0.05
Acetone	<5	1,1,1,2-7	Tetrachloroethane	< 0.05
1,1-Dichloroethene	< 0.05	m,p-Xyle		< 0.1
Hexane	< 0.25	o-Xylene	e	< 0.05
Methylene chloride	< 0.5	Styrene		< 0.05
Methyl t-butyl ether (M			lbenzene	< 0.05
trans-1,2-Dichloroethene		Bromofo		< 0.05
1,1-Dichloroethane	< 0.05		lbenzene	< 0.05
2,2-Dichloropropane	< 0.05	Bromobe		< 0.05
cis-1,2-Dichloroethene	< 0.05		imethylbenzene	< 0.05
Chloroform	< 0.05		Tetrachloroethane	< 0.05
2-Butanone (MEK)	<0.5		ichloropropane	< 0.05
1,2-Dichloroethane (EDC		2-Chloro		<0.05
1,1,1-Trichloroethane	<0.05	4-Chloro		<0.05
1,1-Dichloropropene Carbon tetrachloride	<0.05		ylbenzene imethylbenzene	<0.05
Benzene	<0.05 <0.03			$< 0.05 \\ < 0.05$
Trichloroethene	<0.03	-	vlbenzene pyltoluene	<0.05
1,2-Dichloropropane	<0.02		lorobenzene	<0.05
Bromodichloromethane	< 0.05		lorobenzene	<0.05
Dibromomethane	<0.05	,	lorobenzene	<0.05
4-Methyl-2-pentanone	<0.05		omo-3-chloropropane	<0.05
cis-1,3-Dichloropropene	< 0.05		ichlorobenzene	<0.25
Toluene	< 0.05		orobutadiene	<0.25
trans-1,3-Dichloroproper		Naphtha		< 0.05
1,1,2-Trichloroethane	< 0.05	-	ichlorobenzene	< 0.25
2-Hexanone	<0.5	-,-,		

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	UST-A-Proc 05/11/20 05/12/20 05/12/20 Soil/Product mg/kg (ppm	t	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone 2017-015K 005122-02 1/750 051206.D GCMS6 VM
Surrogates: Anthracene-d10 Benzo(a)anthracen	e-d12	% Recovery: 92 114	Lower Limit: 31 24	Upper Limit: 163 168
Compounds:		Concentration mg/kg (ppm)		
Benz(a)anthracene		2.8		
Chrysene		7.3		
Benzo(a)pyrene		$1.6~\mathrm{J}$		
Benzo(b)fluoranthe		<1.5 J		
Benzo(k)fluoranthe		<1.5 J		
Indeno(1,2,3-cd)pyr		1.5 J		
Dibenz(a,h)anthrac	ene	<1.5 J		

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	UST-A-Proc 05/11/20 05/12/20 05/12/20 Soil/Product mg/kg (ppm	t	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone 2017-015K 005122-02 1/7500 051205.D GCMS6 VM
Surrogates: Anthracene-d10 Benzo(a)anthracen	e-d12	% Recovery: 115 d 131 d	Lower Limit: 31 24	Upper Limit: 163 168
Compounds:		Concentration mg/kg (ppm)		
Benz(a)anthracene		<15		
Chrysene		<15		
Benzo(a)pyrene		<15		
Benzo(b)fluoranthe	ene	<15		
Benzo(k)fluoranthe		<15		
Indeno(1,2,3-cd)py		<15		
Dibenz(a,h)anthrac	eene	<15		

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 05/12/20 05/12/20 Soil/Produc mg/kg (ppm	t	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone 2017-015K 00-1073 mb 1/5 051204.D GCMS6 VM
Surrogates: Anthracene-d10 Benzo(a)anthracen	e-d12	% Recovery: 79 103	Lower Limit: 31 24	Upper Limit: 163 168
Compounds:		Concentration mg/kg (ppm)		
Benz(a)anthracene		< 0.01		
Chrysene		< 0.01		
Benzo(a)pyrene		< 0.01		
Benzo(b)fluoranthe	ne	< 0.01		
Benzo(k)fluoranthe		< 0.01		
Indeno(1,2,3-cd)pyr		< 0.01		
Dibenz(a,h)anthrac	ene	< 0.01		

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	UST-A-Product 05/11/20 05/12/20 05/12/20 Product mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone 2017-015K 005122-02 051207.D GC9 IJL
Surrogates: TCMX	% Recovery: 83	Lower Limit: 27	Upper Limit: 106
Compounds:	Concentration mg/kg (ppm)		
Aroclor 1221 Aroclor 1232 Aroclor 1016 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268	<2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2		

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicable 05/12/20 05/12/20 Product mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone 2017-015K 00-1072 mb 051206.D GC9 IJL
Surrogates: TCMX	% Recovery: 100	Lower Limit: 27	Upper Limit: 106
Compounds:	Concentration mg/kg (ppm)		
Aroclor 1221 Aroclor 1232 Aroclor 1016 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268	<2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2		

ENVIRONMENTAL CHEMISTS

Date of Report: 05/14/20 Date Received: 05/11/20 Project: Roystone 2017-015K, F&BI 005122

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL/PRODUCT SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING EPA METHOD 8021B

Laboratory Code: 005115-01 (Duplicate)

		Sample	Duplicate	
	Reporting	Result	Result	RPD
Analyte	Units	(Wet Wt)	(Wet Wt)	(Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	97	69-120
Toluene	mg/kg (ppm)	0.5	96	70-117
Ethylbenzene	mg/kg (ppm)	0.5	95	65-123
Xylenes	mg/kg (ppm)	1.5	100	66-120

ENVIRONMENTAL CHEMISTS

Date of Report: 05/14/20 Date Received: 05/11/20 Project: Roystone 2017-015K, F&BI 005122

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL/PRODUCT SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 005109-19 x5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	<5	82	97	75 - 125	17
Cadmium	mg/kg (ppm)	10	<5	94	96	75 - 125	2
Chromium	mg/kg (ppm)	50	9.56	96	98	75 - 125	2
Lead	mg/kg (ppm)	50	6.66	94	95	75 - 125	1
Mercury	mg/kg (ppm	5	<5	91	95	75 - 125	4

Laboratory Co	de. Laboratory Com	cioi Sampie	Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	82	80-120
Cadmium	mg/kg (ppm)	10	96	80-120
Chromium	mg/kg (ppm)	50	95	80-120
Lead	mg/kg (ppm)	50	95	80-120
Mercury	mg/kg (ppm)	5	98	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 05/14/20 Date Received: 05/11/20 Project: Roystone 2017-015K, F&BI 005122

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL/SOLID SAMPLES FOR TCLP METALS USING EPA METHODS 6020B AND 1311

Laboratory Code: 005073-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Lead	mg/L (ppm)	1.0	<1	87	85	75 - 125	2

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Lead	mg/L (ppm)	1.0	87	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 05/14/20 Date Received: 05/11/20 Project: Roystone 2017-015K, F&BI 005122

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL/PRODUCT SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 005090-06 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	< 0.5	39	39	10-142	0
Chloromethane	mg/kg (ppm)	2.5	< 0.5	62	61	10-126	2
Vinyl chloride	mg/kg (ppm)	2.5	< 0.05	66	67	10-138	2
Bromomethane	mg/kg (ppm)	2.5	<0.5	74	74	10-163	0
Chloroethane	mg/kg (ppm)	2.5	<0.5	72	73	10-176	1
Trichlorofluoromethane Acetone	mg/kg (ppm)	$2.5 \\ 12.5$	<0.5 <5	75 78	74 80	10-176 10-163	1 3
1.1-Dichloroethene	mg/kg (ppm) mg/kg (ppm)	2.5	<0.05	83	86	10-165	3 4
Hexane	mg/kg (ppm)	2.5	<0.05	82	89	10-137	8
Methylene chloride	mg/kg (ppm)	2.5	<0.25	92	94	10-157	2
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	< 0.05	97	99	21-145	2
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	92	93	14-137	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	< 0.05	91	95	19-140	4
2,2-Dichloropropane	mg/kg (ppm)	2.5	< 0.05	132	135	10-158	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	93	96	25-135	3
Chloroform	mg/kg (ppm)	2.5	< 0.05	96	98	21-145	2
2-Butanone (MEK)	mg/kg (ppm)	12.5	< 0.5	89	89	19-147	0
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	< 0.05	91	91	12-160	0
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	< 0.05	93	97	10-156	4
1,1-Dichloropropene	mg/kg (ppm)	2.5	< 0.05	93	96	17-140	3
Carbon tetrachloride	mg/kg (ppm)	2.5	< 0.05	93	96	9-164	3
Benzene	mg/kg (ppm)	2.5	< 0.03	92	92	29-129	0
Trichloroethene	mg/kg (ppm)	2.5	< 0.02	81	83	21-139	2
1,2-Dichloropropane	mg/kg (ppm)	2.5	< 0.05	95	95	30-135	0
Bromodichloromethane	mg/kg (ppm)	2.5 2.5	<0.05 <0.05	98 99	98 101	23-155	0 2
Dibromomethane 4-Methyl-2-pentanone	mg/kg (ppm)	$\frac{2.5}{12.5}$	<0.05	99 102	101 102	23-145 24-155	2
cis-1,3-Dichloropropene	mg/kg (ppm) mg/kg (ppm)	2.5	<0.05 <0.05	102	102 106	24-155 28-144	0
Toluene	mg/kg (ppm)	2.5	<0.05	85	86	35-130	1
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.05	96	96	26-149	0
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	<0.05	89	90	10-205	1
2-Hexanone	mg/kg (ppm)	12.5	<0.5	89	87	15-166	2
1,3-Dichloropropane	mg/kg (ppm)	2.5	< 0.05	89	87	31-137	2
Tetrachloroethene	mg/kg (ppm)	2.5	< 0.025	84	85	20-133	1
Dibromochloromethane	mg/kg (ppm)	2.5	< 0.05	90	90	28-150	0
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	< 0.05	90	89	28-142	1
Chlorobenzene	mg/kg (ppm)	2.5	< 0.05	88	88	32-129	0
Ethylbenzene	mg/kg (ppm)	2.5	< 0.05	87	89	32-137	2
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	< 0.05	91	93	31-143	2
m,p-Xylene	mg/kg (ppm)	5	< 0.1	89	90	34-136	1
o-Xylene	mg/kg (ppm)	2.5	< 0.05	88	91	33-134	3
Styrene	mg/kg (ppm)	2.5	< 0.05	91	92	35-137	1
Isopropylbenzene	mg/kg (ppm)	2.5	<0.05 <0.05	88	90	31-142	$\frac{2}{2}$
Bromoform	mg/kg (ppm)	2.5	<0.05 <0.05	87	89	21-156	2
n-Propylbenzene Bromobenzene	mg/kg (ppm) mg/kg (ppm)	$2.5 \\ 2.5$	<0.05	86 85	88 86	$23-146 \\ 34-130$	2
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	<0.05 0.055	88	89	18-149	1
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	< 0.05	111	110	28-140	1
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	< 0.05	86	86	25-140	0
2-Chlorotoluene	mg/kg (ppm)	2.5	< 0.05	85	86	31-134	1
4-Chlorotoluene	mg/kg (ppm)	2.5	< 0.05	86	88	31-136	2
tert-Butylbenzene	mg/kg (ppm)	2.5	< 0.05	85	88	30-137	3
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	< 0.05	87	89	10-182	2
sec-Butylbenzene	mg/kg (ppm)	2.5	< 0.05	87	88	23-145	1
p-Isopropyltoluene	mg/kg (ppm)	2.5	< 0.05	88	90	21-149	2
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	< 0.05	87	88	30-131	1
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	< 0.05	86	89	29-129	3
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	< 0.05	86	88	31-132	2
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	< 0.5	87	87	11-161	0
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	< 0.25	92	96	22-142	4
Hexachlorobutadiene	mg/kg (ppm)	2.5	< 0.25	97	99	10-142	2
Naphthalene	mg/kg (ppm)	2.5	< 0.05	89	92	14-157	3
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	< 0.25	92	95	20-144	3

ENVIRONMENTAL CHEMISTS

Date of Report: 05/14/20 Date Received: 05/11/20 Project: Roystone 2017-015K, F&BI 005122

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL/PRODUCT SAMPLES FOR VOLATILES BY EPA METHOD 8260D

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	70	10-146
Chloromethane	mg/kg (ppm)	2.5	89	27-133
Vinyl chloride	mg/kg (ppm)	2.5	96	22-139
Bromomethane	mg/kg (ppm)	2.5	108	38-114
Chloroethane	mg/kg (ppm)	2.5	100	9-163
Trichlorofluoromethane	mg/kg (ppm)	2.5	106	10-196
Acetone 1,1-Dichloroethene	mg/kg (ppm)	12.5 2.5	108 110	52-141 47-128
I, I-Dichloroethene Hexane	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	110	47-128 43-142
Methylene chloride	mg/kg (ppm)	2.5	119	43-142 42-132
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	112	60-123
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	115	67-129
1,1-Dichloroethane	mg/kg (ppm)	2.5	110	68-115
2.2-Dichloropropane	mg/kg (ppm)	2.5	179 vo	52-170
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	112	72-127
Chloroform	mg/kg (ppm)	2.5	112	66-120
2-Butanone (MEK)	mg/kg (ppm)	12.5	101	72-127
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	102	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	115	62-131
1,1-Dichloropropene	mg/kg (ppm)	2.5	112	69-128
Carbon tetrachloride	mg/kg (ppm)	2.5	117	60-139
Benzene	mg/kg (ppm)	2.5	107	68-114
Trichloroethene	mg/kg (ppm)	2.5	94	64-117
1,2-Dichloropropane	mg/kg (ppm)	2.5	106 110	72-127
Bromodichloromethane Dibromomethane	mg/kg (ppm)	$2.5 \\ 2.5$	109	72-130
4-Methyl-2-pentanone	mg/kg (ppm) mg/kg (ppm)	2.5 12.5	109	70-120 45-145
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	115	45-145 75-136
Toluene	mg/kg (ppm)	2.5	98	66-126
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	106	72-132
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	96	75-113
2-Hexanone	mg/kg (ppm)	12.5	100	33-152
1,3-Dichloropropane	mg/kg (ppm)	2.5	95	72-130
Tetrachloroethene	mg/kg (ppm)	2.5	101	72-114
Dibromochloromethane	mg/kg (ppm)	2.5	101	74-125
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	99	74-132
Chlorobenzene	mg/kg (ppm)	2.5	100	76-111
Ethylbenzene	mg/kg (ppm)	2.5	103	64-123
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	106	69-135
m,p-Xylene	mg/kg (ppm)	5	103	78-122
o-Xylene	mg/kg (ppm)	2.5	104	77-124
Styrene Isopropylbenzene	mg/kg (ppm) mg/kg (ppm)	$2.5 \\ 2.5$	$105 \\ 106$	74-126 76-127
Bromoform	mg/kg (ppm)	2.5	103	56-132
n-Propylbenzene	mg/kg (ppm)	2.5	98	74-124
Bromobenzene	mg/kg (ppm)	2.5	94	72-122
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	100	76-126
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	119	56-143
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	94	61-137
2-Chlorotoluene	mg/kg (ppm)	2.5	96	74-121
4-Chlorotoluene	mg/kg (ppm)	2.5	97	75-122
tert-Butylbenzene	mg/kg (ppm)	2.5	100	73-130
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	100	76-125
sec-Butylbenzene	mg/kg (ppm)	2.5	99	71-130
p-Isopropyltoluene	mg/kg (ppm)	2.5	102	70-132
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	99	75-121
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	99	74-117
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	99	76-121
1,2-Dibromo-3-chloropropane 1.2.4-Trichlorobenzene	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	94 102	58-138
1,2,4-Trichlorobenzene Hexachlorobutadiene	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	102	64-135 50-153
Naphthalene	mg/kg (ppm)	2.5	108	63-140
1.2.3-Trichlorobenzene	mg/kg (ppm)	2.5	101 102	63-138
1,2,0 IIICIIIOIODEIIZEIIE	mg/kg (bbiii)	2.0	102	00-100

ENVIRONMENTAL CHEMISTS

Date of Report: 05/14/20 Date Received: 05/11/20 Project: Roystone 2017-015K, F&BI 005122

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL/PRODUCT SAMPLES FOR PAHS BY EPA METHOD 8270E SIM

Laboratory Couc. Labora		ipic 1/0	Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Benz(a)anthracene	mg/kg (ppm)	0.17	91	93	51 - 115	2
Chrysene	mg/kg (ppm)	0.17	90	92	55 - 129	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	77	84	56 - 123	9
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	81	79	54-131	2
Benzo(a)pyrene	mg/kg (ppm)	0.17	80	79	51 - 118	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	93	90	49-148	3
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	97	94	50-141	3

ENVIRONMENTAL CHEMISTS

Date of Report: 05/14/20 Date Received: 05/11/20 Project: Roystone 2017-015K, F&BI 005122

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF PRODUCT SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Aroclor 1016	mg/kg (ppm)	25	81	87	70-130	7
Aroclor 1260	mg/kg (ppm)	25	101	96	70-130	5

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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Seattle, WA 98119-2029	Relinquished y:																			
Ph. (206) 285-8282	Received by:																			

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

May 20, 2020

Jerry Sawetz, Project Manager The Riley Group, Inc. 17522 Bothell Way NE Bothell, WA 98011

Dear Mr Sawetz:

Included are the results from the testing of material submitted on May 15, 2020 from the Roystone Development 2017-015K, F&BI 005203 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Eric Dunham, Mingta Lin TRG0520R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 15, 2020 by Friedman & Bruya, Inc. from the The Riley Group Roystone Development 2017-015K, F&BI 005203 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>The Riley Group</u>
005203 -01	UST4A-PP-1-2

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/20 Date Received: 05/15/20 Project: Roystone Development 2017-015K, F&BI 005203 Date Extracted: 05/18/20 Date Analyzed: 05/18/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (<u>% Recovery</u>) (Limit 50-150)
UST4A-PP-1-2 005203-01	< 0.02	< 0.02	< 0.02	<0.06	<5	84
Method Blank 00-1094 MB	< 0.02	< 0.02	< 0.02	< 0.06	<5	87

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/20 Date Received: 05/15/20 Project: Roystone Development 2017-015K, F&BI 005203 Date Extracted: 05/18/20 Date Analyzed: 05/18/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	Diesel Range (C10-C25)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	Surrogate <u>(% Recovery)</u> (Limit 53-144)
UST4A-PP-1-2 005203-01	<50	590	96
Method Blank ^{00-1132 MB}	<50	<250	92

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/20 Date Received: 05/15/20 Project: Roystone Development 2017-015K, F&BI 005203

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 005203-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
		. /		(Linit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<5	<5	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	94	69-120
Toluene	mg/kg (ppm)	0.5	90	70-117
Ethylbenzene	mg/kg (ppm)	0.5	90	65 - 123
Xylenes	mg/kg (ppm)	1.5	94	66 - 120
Gasoline	mg/kg (ppm)	20	90	71 - 131

ENVIRONMENTAL CHEMISTS

Date of Report: 05/20/20 Date Received: 05/15/20 Project: Roystone Development 2017-015K, F&BI 005203

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code:	005203-01 (Matri	x Spike)					
			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	\mathbf{MS}	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	370	111	113	64-133	2
Laboratory Code:	Laboratory Contr	rol Samp	le				
			Percent	t			
	Reporting	Spike	Recover	y Accep	tance		
Analyte	Units	Level	LCS	Crite	eria		

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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		Date	Time	Sample	# of	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082							
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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

May 27, 2020

Jerry Sawetz, Project Manager The Riley Group, Inc. 17522 Bothell Way NE Bothell, WA 98011

Dear Mr Sawetz:

Included are the results from the testing of material submitted on May 21, 2020 from the Roystone, F&BI 005280 project. There are 17 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Eric Dunham, Mingta Lin TRG0527R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 21, 2020 by Friedman & Bruya, Inc. from the The Riley Group Roystone, F&BI 005280 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	The Riley Group
005280 -01	USTA-1W-3

An 8270E internal standard failed the acceptance criteria for sample USTA-1W-3. The sample was diluted and reanalyzed with acceptable results. Both data sets were reported.

The 8260D matrix spike and matrix spike sample duplicate failed the relative percent difference for 1,3,5-trimethylbenzene and hexachlorobutadiene. The analytes were not detected in the sample therefore the data were acceptable.

All other quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/20 Date Received: 05/21/20 Project: Roystone, F&BI 005280 Date Extracted: 05/22/20 Date Analyzed: 05/22/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (<u>% Recovery</u>) (Limit 50-150)
USTA-1W-3 005280-01	49	125
Method Blank 00-1100 MB2	<5	103

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/20 Date Received: 05/21/20 Project: Roystone, F&BI 005280 Date Extracted: 05/22/20 Date Analyzed: 05/22/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	Diesel Range (C10-C25)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	Surrogate <u>(% Recovery)</u> (Limit 53-144)
USTA-1W-3 005280-01	180 x	2,200	96
Method Blank ^{00-1149 MB2}	<50	<250	91

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix:	USTA-1W-3 05/21/20 05/22/20 05/22/20 Soil	Client: Project: Lab ID: Data File: Instrument:	The Riley Group Roystone, F&BI 005280 005280-01 005280-01.034 ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Lead	22.5		

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix:	Method Blank NA 05/22/20 05/22/20 Soil	Client: Project: Lab ID: Data File: Instrument:	The Riley Group Roystone, F&BI 005280 I0-295 mb2 I0-295 mb2.033 ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Lead	<1		

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ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	USTA-1W-3 05/21/20 05/22/20 05/22/20 Soil mg/kg (ppm)) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone, F&BI 005280 005280-01 1/5 052205.D GCMS6 VM
Surrogates: Anthracene-d10 Benzo(a)anthracen	e-d12	% Recovery: 82 117	Lower Limit: 31 24	Upper Limit: 163 168
Compounds:		Concentration mg/kg (ppm)		
Benz(a)anthracene		0.039		
Chrysene		0.047		
Benzo(a)pyrene		$0.031~\mathrm{J}$		
Benzo(b)fluoranthe	ne	$0.037~\mathrm{J}$		
Benzo(k)fluoranthe		$0.013\mathrm{J}$		
Indeno(1,2,3-cd)pyr		0.011 J		
Dibenz(a,h)anthrac	ene	<0.01 J		

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	USTA-1W-3 05/21/20 05/22/20 05/22/20 Soil mg/kg (ppm)) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone, F&BI 005280 005280-01 1/25 052209.D GCMS6 VM
Surrogates: Anthracene-d10 Benzo(a)anthracen	e-d12	% Recovery: 93 d 101 d	Lower Limit: 31 24	Upper Limit: 163 168
Compounds:		Concentration mg/kg (ppm)		
Benz(a)anthracene		< 0.05		
Chrysene		< 0.05		
Benzo(a)pyrene		< 0.05		
Benzo(b)fluoranthe	ene	< 0.05		
Benzo(k)fluoranthe		< 0.05		
Indeno(1,2,3-cd)pyr	rene	< 0.05		
Dibenz(a,h)anthrac	ene	< 0.05		

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 05/22/20 05/22/20 Soil mg/kg (ppm		Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone, F&BI 005280 00-1177 mb2 1/5 052204.D GCMS6 VM
Surrogates: Anthracene-d10 Benzo(a)anthracen	e-d12	% Recovery: 85 98	Lower Limit: 31 24	Upper Limit: 163 168
Compounds:		Concentration mg/kg (ppm)		
Benz(a)anthracene		< 0.01		
Chrysene		< 0.01		
Benzo(a)pyrene		< 0.01		
Benzo(b)fluoranthe	ne	< 0.01		
Benzo(k)fluoranthe		< 0.01		
Indeno(1,2,3-cd)pyr		< 0.01		
Dibenz(a,h)anthrac	ene	< 0.01		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	USTA-1W- 05/21/20 05/22/20 05/22/20 Soil mg/kg (ppn	3 n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone, F&BI 0052 005280-01 052210.D GCMS9 MS	80
			Lower	Upper	
Surrogates:		% Recovery:	Limit:	Limit:	
1,2-Dichloroethane	e-d4	103	50	150	
Toluene-d8		102	50	150	
4-Bromofluorobenz	ene	105	50	150	
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluorome	ethane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5		loroethene	0.039
Vinyl chloride		< 0.05	Dibromo	ochloromethane	< 0.05
Bromomethane		< 0.5	1,2-Dibr	omoethane (EDB)	< 0.05
Chloroethane		< 0.5	Chlorob	enzene	< 0.05
Trichlorofluoromet	hane	< 0.5	Ethylber	nzene	0.18
Acetone		<5	1,1,1,2-7	Tetrachloroethane	< 0.05
1,1-Dichloroethene		< 0.05	m,p-Xyle		0.90
Hexane		< 0.25	o-Xylene	9	0.44
Methylene chloride		< 0.5	Styrene		< 0.05
Methyl t-butyl ethe		< 0.05		lbenzene	0.070
trans-1,2-Dichloroe		< 0.05	Bromofo		< 0.05
1,1-Dichloroethane		< 0.05		lbenzene	0.21
2,2-Dichloropropan		< 0.05	Bromobe		< 0.05
cis-1,2-Dichloroeth	ene	< 0.05		imethylbenzene	0.66
Chloroform		< 0.05		Tetrachloroethane	< 0.05
2-Butanone (MEK)		< 0.5		ichloropropane	< 0.05
1,2-Dichloroethane		< 0.05	2-Chloro		< 0.05
1,1,1-Trichloroetha		< 0.05	4-Chloro		< 0.05
1,1-Dichloropropen		<0.05		ylbenzene	< 0.05
Carbon tetrachlorie	ae	< 0.05		imethylbenzene	2.4
Benzene Trichloroethene		<0.03 <0.02		vlbenzene	0.081
1,2-Dichloropropan		<0.02 <0.05		pyltoluene lorobenzene	0.13 < 0.05
Bromodichlorometl		<0.05 <0.05		lorobenzene	<0.05
Dibromomethane	liane	<0.05 <0.05		lorobenzene	<0.05
4-Methyl-2-pentane	one	<0.05 <0.5		omo-3-chloropropane	<0.05
cis-1,3-Dichloropro		<0.05		ichlorobenzene	<0.25
Toluene	pone	0.22		orobutadiene	<0.25
trans-1,3-Dichlorop	propene	< 0.05	Naphtha		0.97
1,1,2-Trichloroetha	-	< 0.05	-	ichlorobenzene	< 0.25
2-Hexanone		<0.5	-, - ,° 11		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bl Not Applic 05/22/20 05/22/20 Soil mg/kg (ppr		Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone, F&BI 0052 00-1066 mb2 052209.D GCMS9 MS	:80
			Lower	Upper	
Surrogates:		% Recovery:	Limit:	Limit:	
1,2-Dichloroethane	-d4	103	50	150	
Toluene-d8		100	50	150	
4-Bromofluorobenz	ene	105	50	150	
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluorome	thane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrach	loroethene	< 0.025
Vinyl chloride		< 0.05	Dibromo	ochloromethane	< 0.05
Bromomethane		< 0.5	1,2-Dibr	omoethane (EDB)	< 0.05
Chloroethane		< 0.5	Chlorob		< 0.05
Trichlorofluoromet	hane	< 0.5	Ethylber		< 0.05
Acetone		<5		Fetrachloroethane	< 0.05
1,1-Dichloroethene		< 0.05	m,p-Xyle		< 0.1
Hexane		< 0.25	o-Xylene	e	< 0.05
Methylene chloride		< 0.5	Styrene		< 0.05
Methyl t-butyl ethe		< 0.05		lbenzene	< 0.05
trans-1,2-Dichloroe		< 0.05	Bromofo		< 0.05
1,1-Dichloroethane		< 0.05		lbenzene	< 0.05
2,2-Dichloropropan		< 0.05	Bromobe		< 0.05
cis-1,2-Dichloroethe	ene	< 0.05		imethylbenzene	< 0.05
Chloroform		< 0.05		Fetrachloroethane	< 0.05
2-Butanone (MEK)		<0.5		ichloropropane	< 0.05
1,2-Dichloroethane		< 0.05	2-Chloro		<0.05
1,1,1-Trichloroetha		< 0.05	4-Chloro		<0.05
1,1-Dichloropropen Carbon tetrachloric		<0.05		ylbenzene imethylbenzene	<0.05
Benzene	ie	<0.05 <0.03			$< 0.05 \\ < 0.05$
Trichloroethene		< 0.03	-	vlbenzene pyltoluene	<0.05
1,2-Dichloropropan	0	< 0.02		llorobenzene	<0.05
Bromodichlorometh		< 0.05		llorobenzene	<0.05
Dibromomethane	lane	<0.05	,	lorobenzene	< 0.05
4-Methyl-2-pentance	ne	<0.05		omo-3-chloropropane	<0.5
cis-1,3-Dichloropro		<0.05		ichlorobenzene	<0.25
Toluene	pene	<0.05		orobutadiene	<0.25
trans-1,3-Dichlorop	propene	< 0.05	Naphtha		< 0.05
1,1,2-Trichloroetha	-	< 0.05		ichlorobenzene	< 0.25
2-Hexanone	~	< 0.5	-, - ,° II.		

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/20 Date Received: 05/21/20 Project: Roystone, F&BI 005280

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 005245-01 1/5 (Duplicate)								
		Samp	ole Du	plicate				
	Reporting	Resu	lt R	lesult	RPD			
Analyte	Units	(Wet V	Wt) (W	et Wt)	(Limit 20)			
Gasoline	mg/kg (ppm)	250)	120	70 a			
Laboratory Code: I	Laboratory Contro	ol Sample	e Percent					
	Reporting	Spike	Recovery	Acceptance				
Analyte	Units	Level	LCS	Criteria				
Gasoline	mg/kg (ppm)	20	105	71-131				

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/20 Date Received: 05/21/20 Project: Roystone, F&BI 005280

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: (005271-01 (Matrix	x Spike)					
			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	88	96	73-135	9
Laboratory Code:	Laboratory Contro	ol Sampl	le				
			Percent				
	Reporting	Spike	Recovery	Acceptar	nce		
Analyte	Units	Level	LCS	Criteria	a		
Diesel Extended	mg/kg (ppm)	5,000	86	74-139)		

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/20 Date Received: 05/21/20 Project: Roystone, F&BI 005280

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 005245-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Lead	mg/kg (ppm)	50	1.76	92	94	75 - 125	2

v	U U	1	Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Lead	mg/kg (ppm)	50	101	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/20 Date Received: 05/21/20 Project: Roystone, F&BI 005280

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PAHS BY EPA METHOD 8270E SIM

Laboratory Code: 005255-01 1/5 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Benz(a)anthracene	mg/kg (ppm)	0.17	0.068	63 b	84 b	23 - 144	29 b
Chrysene	mg/kg (ppm)	0.17	0.082	$55 \mathrm{b}$	$73 \mathrm{b}$	32 - 149	$28 \mathrm{b}$
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	$0.17~\mathrm{J}$	66 b J	89 b J	23 - 176	30 b
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	$0.056~\mathrm{J}$	$59~{ m b}~{ m J}$	$77~{ m b}~{ m J}$	42 - 139	$26 \mathrm{b}$
Benzo(a)pyrene	mg/kg (ppm)	0.17	$0.11~\mathrm{J}$	44 b J	$72 \mathrm{~b~J}$	21 - 163	48 b
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	$0.051~\mathrm{J}$	44 b J	60 b J	23 - 170	31 b
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	$0.0094 \; J$	$47~\mathrm{J}$	52 J	31 - 146	10

·		-	Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benz(a)anthracene	mg/kg (ppm)	0.17	84	51 - 115
Chrysene	mg/kg (ppm)	0.17	87	55 - 129
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	75	56 - 123
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	77	54 - 131
Benzo(a)pyrene	mg/kg (ppm)	0.17	67	51 - 118
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	71	49-148
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	78	50-141

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/20 Date Received: 05/21/20 Project: Roystone, F&BI 005280

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 005251-02 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	< 0.5	21	24	10-56	13
Chloromethane	mg/kg (ppm)	2.5	< 0.5	45	48	10-90	6
Vinyl chloride	mg/kg (ppm)	2.5	< 0.05	42	44	10-91	5
Bromomethane	mg/kg (ppm)	2.5	< 0.5	43	49	10-110	13
Chloroethane	mg/kg (ppm)	2.5	<0.5	42	47	10-101	11
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.5	32	38	10-95	17
Acetone 1.1-Dichloroethene	mg/kg (ppm)	$12.5 \\ 2.5$	<5 <0.05	82 52	85 59	$11-141 \\ 22-107$	4 13
	mg/kg (ppm)	2.5 2.5	<0.05	52 28	33		13
Hexane Methylene chloride	mg/kg (ppm)	2.5	<0.25	28 86	33 92	10-95 14-128	16
Methyl t-butyl ether (MTBE)	mg/kg (ppm) mg/kg (ppm)	2.5	<0.05	90	92 95	14-128 17-134	5
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	50 71	55 79	13-112	11
1.1-Dichloroethane	mg/kg (ppm)	2.5 2.5	<0.05	85	90	23-115	6
2,2-Dichloropropane	mg/kg (ppm)	2.5	< 0.05	80	89	18-117	11
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	81	88	25-120	8
Chloroform	mg/kg (ppm)	2.5	< 0.05	82	88	29-117	7
2-Butanone (MEK)	mg/kg (ppm)	12.5	<0.5	91	91	20-133	0
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	< 0.05	80	83	22-124	4
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	< 0.05	70	79	27-112	12
1,1-Dichloropropene	mg/kg (ppm)	2.5	< 0.05	69	75	26-107	8
Carbon tetrachloride	mg/kg (ppm)	2.5	< 0.05	62	71	28-126	14
Benzene	mg/kg (ppm)	2.5	< 0.03	77	82	26-114	6
Trichloroethene	mg/kg (ppm)	2.5	< 0.02	72	79	30-112	9
1,2-Dichloropropane	mg/kg (ppm)	2.5	< 0.05	87	91	31-119	4
Bromodichloromethane	mg/kg (ppm)	2.5	< 0.05	86	90	31-131	5
Dibromomethane	mg/kg (ppm)	2.5	< 0.05	87	93	27-124	7
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	< 0.5	96	101	16-147	5
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	< 0.05	86	87	28-137	1
Toluene	mg/kg (ppm)	2.5	< 0.05	71	77	34-112	8
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	< 0.05	94	94	30-136	0
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	< 0.05	94	96	32-126	2
2-Hexanone	mg/kg (ppm)	12.5	< 0.5	107	107	17-147	0
1,3-Dichloropropane	mg/kg (ppm)	2.5	< 0.05	92	93	29 - 125	1
Tetrachloroethene	mg/kg (ppm)	2.5	< 0.025	56	64	25 - 114	13
Dibromochloromethane	mg/kg (ppm)	2.5	< 0.05	84	89	32 - 143	6
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	< 0.05	86	89	32-126	3
Chlorobenzene	mg/kg (ppm)	2.5	< 0.05	76	82	37-113	8
Ethylbenzene	mg/kg (ppm)	2.5	0.055	67	76	34-115	13
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	< 0.05	81	89	35 - 126	9
m,p-Xylene	mg/kg (ppm)	5	0.15	64	73	25 - 125	13
o-Xylene	mg/kg (ppm)	2.5	0.13	65	76	27-126	16
Styrene	mg/kg (ppm)	2.5	< 0.05	81	89	39-121	9
Isopropylbenzene	mg/kg (ppm)	2.5	0.054	62	73	34-123	16
Bromoform	mg/kg (ppm)	2.5	< 0.05	81	88	18-155	8
n-Propylbenzene	mg/kg (ppm)	2.5	0.15	61	71	31-120	15
Bromobenzene	mg/kg (ppm)	2.5	< 0.05	74	81	40-115	9
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	0.32	53	69	24-130	26 vo
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	< 0.05	114	115	27-148	1
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	< 0.05	100	99	33-123	1
2-Chlorotoluene	mg/kg (ppm)	2.5	< 0.05	74	84	39-110	13
4-Chlorotoluene	mg/kg (ppm)	$2.5 \\ 2.5$	<0.05 <0.05	76 62	83 68	39-111 36-116	9 9
tert-Butylbenzene	mg/kg (ppm)			62 37 b			
1,2,4-Trimethylbenzene sec-Butylbenzene	mg/kg (ppm)	$2.5 \\ 2.5$	$1.0 \\ 0.14$	37 b 56	72 b 67	35-116 33-118	64 b 18
sec-Butylbenzene p-Isopropyltoluene	mg/kg (ppm) mg/kg (ppm)	$2.5 \\ 2.5$	0.14 0.14	56 49	67 60	33-118 32-119	18 20
1,3-Dichlorobenzene	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	<0.14 <0.05	49 67	60 75	32-119 38-111	20
1,3-Dichlorobenzene 1,4-Dichlorobenzene		2.5 2.5	<0.05	68	75 75	38-111 39-109	11
1,4-Dichlorobenzene 1,2-Dichlorobenzene	mg/kg (ppm) mg/kg (ppm)	$2.5 \\ 2.5$	<0.05 <0.05	68 75	75 82	39-109 40-111	10
1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropane	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	<0.05	75 96	82 106	40-111 44-112	9 10
1,2-Dibromo-3-chloropropane 1,2.4-Trichlorobenzene	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	<0.5	96 58	68	44-112 31-121	10
1,2,4-1 richlorobenzene Hexachlorobutadiene	mg/kg (ppm) mg/kg (ppm)	$2.5 \\ 2.5$	<0.25 <0.25	58 44	68 55	31-121 24-128	22 vo
Naphthalene	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	<0.25 0.66	44 61 b	ээ 80 b	24-128 24-139	22 vo 27 b
	1112/K2 (DDIII)	2.0	0.00	01.0	00.0	44-100	410

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/20 Date Received: 05/21/20 Project: Roystone, F&BI 005280

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code. Laboratory Con	Percent					
	Reporting	Spike	Recovery	Acceptance		
Analyte	Units	Level	LCS	Criteria		
Dichlorodifluoromethane	mg/kg (ppm)	2.5	68	10-76		
Chloromethane	mg/kg (ppm)	2.5	70	34-98		
Vinyl chloride	mg/kg (ppm)	2.5	74	42-107		
Bromomethane	mg/kg (ppm)	2.5	75	46-113		
Chloroethane	mg/kg (ppm)	2.5	72	47-115		
Trichlorofluoromethane	mg/kg (ppm)	2.5	68	53-112		
Acetone	mg/kg (ppm)	$12.5 \\ 2.5$	83	39-147		
1,1-Dichloroethene Hexane	mg/kg (ppm)	2.5 2.5	84 98	65-110 55-107		
Methylene chloride	mg/kg (ppm) mg/kg (ppm)	2.5	98 110	50-107 50-127		
Methylene chloride Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	101	72-122		
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	101	71-113		
1,1-Dichloroethane	mg/kg (ppm)	2.5	101	74-109		
2,2-Dichloropropane	mg/kg (ppm)	2.5	109	63-145		
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	100	73-110		
Chloroform	mg/kg (ppm)	2.5	99	76-110		
2-Butanone (MEK)	mg/kg (ppm)	12.5	93	60-121		
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	94	73-111		
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	99	72-116		
1,1-Dichloropropene	mg/kg (ppm)	2.5	101	72-112		
Carbon tetrachloride	mg/kg (ppm)	2.5	97	67-123		
Benzene	mg/kg (ppm)	2.5	101	72-106		
Trichloroethene	mg/kg (ppm)	2.5	97	72-107		
1,2-Dichloropropane	mg/kg (ppm)	2.5	107	74-115		
Bromodichloromethane Dibromomethane	mg/kg (ppm)	$2.5 \\ 2.5$	100 101	75-126		
4-Methyl-2-pentanone	mg/kg (ppm) mg/kg (ppm)	2.5 12.5	98	76-116 80-128		
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	98 98	71-138		
Toluene	mg/kg (ppm)	2.5	100	74-111		
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	100	73-124		
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	101	76-118		
2-Hexanone	mg/kg (ppm)	12.5	107	67-123		
1,3-Dichloropropane	mg/kg (ppm)	2.5	107	75-118		
Tetrachloroethene	mg/kg (ppm)	2.5	97	73-111		
Dibromochloromethane	mg/kg (ppm)	2.5	98	64-152		
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	104	77-117		
Chlorobenzene	mg/kg (ppm)	2.5	100	76-109		
Ethylbenzene	mg/kg (ppm)	2.5	103	75-112		
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	103	75-129		
m,p-Xylene	mg/kg (ppm)	5	101	77-115		
o-Xylene	mg/kg (ppm)	2.5 2.5	100	76-115		
Styrene Isopropylbenzene	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	108 101	76-119 76-120		
Bromoform	mg/kg (ppm)	2.5	93	50-174		
n-Propylbenzene	mg/kg (ppm)	2.5	105	77-115		
Bromobenzene	mg/kg (ppm)	2.5	98	76-112		
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	107	77-121		
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	116	74-121		
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	110	73-117		
2-Chlorotoluene	mg/kg (ppm)	2.5	106	75-113		
4-Chlorotoluene	mg/kg (ppm)	2.5	109	77-115		
tert-Butylbenzene	mg/kg (ppm)	2.5	101	77-123		
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	106	77-119		
sec-Butylbenzene	mg/kg (ppm)	2.5	105	78-120		
p-Isopropyltoluene	mg/kg (ppm)	2.5	98	77-120		
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	98	76-112		
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	97	74-109		
1,2-Dichlorobenzene	mg/kg (ppm)	$2.5 \\ 2.5$	$\frac{98}{105}$	75-114		
1,2-Dibromo-3-chloropropane 1.2.4-Trichlorobenzene	mg/kg (ppm)	2.5 2.5	105 88	68-122 75-122		
1,2,4-1 richlorobenzene Hexachlorobutadiene	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	88 98	75-122 74-130		
Naphthalene	mg/kg (ppm)	2.5	58 87	73-122		
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	92	75-117		
· · · · · · · · · · · · · · · · · · ·	e e (rr)					

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

005280				SAMPLI	E CHAIN	OF	CUS	STC	DDY	, ,		i	ME		05	12	17	o V	'SI/	BI	
005280 Report To Jerry Sa	SAMPL	SAMPLERS (signature)											-	Page #	4I	of /					
Company				PROJECT NAME						PO #						Standard turnaround RUSH <u>ASA</u> Rush charges authorized by:					
Address				- Roy	Roystone											Rush charges authorized by:					
City, State, ZIP			REMARKS				INVOICE TO							SAMPLE DISPOSAL							
City, State, ZIP Jsome + z @ri ky-group.cm PhoneEmail edun ham @ ri ky-group.cm				am Am Project :	Project specific RLs? - Yes / No											Default: Dispose after 30 days					
							ANALYSES REQUES														
Sample ID		Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars		NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	C P HK	lend			N	otes	· · ·	
4554A=1W-3		DIA-E	9121	1400	SOIL	5	X	X			X			\overline{X}	$\overline{\lambda}$						
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Friedman & Bruya, Inc.	NATURE			PRIN'T NAME					COMPA					Y		DATE	TIME				
Friedman & Bruya, Inc. Relinquished by: E QL 3012 16th Avenue West Received by: A					Eric Dunfrem							Rai					5/21	1530			
Seattle, WA 98119-2029 Relinquished by					BRIC YOUND							Fors					5/21	520	·.		
Ph. (206) 285-8282													•								

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

June 16, 2020

Jerry Sawetz, Project Manager The Riley Group, Inc. 17522 Bothell Way NE Bothell, WA 98011

Dear Mr Sawetz:

Included is the amended report from the testing of material submitted on June 1, 2020 from the Roystone Development PO 2017-015K, F&BI 006013 project. Per your request, sample ID USTA-SA-1W-4.5 has been amended to USTA-SA-1W-6.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Eric Dunham, Mingta Lin TRG0604R.DOC

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

June 4, 2020

Jerry Sawetz, Project Manager The Riley Group, Inc. 17522 Bothell Way NE Bothell, WA 98011

Dear Mr Sawetz:

Included are the results from the testing of material submitted on June 1, 2020 from the Roystone Development PO 2017-015K, F&BI 006013 project. There are 20 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Eric Dunham, Mingta Lin TRG0604R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 1, 2020 by Friedman & Bruya, Inc. from the The Riley Group Roystone Development PO 2017-015K, F&BI 006013 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>The Riley Group</u>
006013 -01	UST4A-SA-1B-8.5
006013 -02	UST4A-SA-2E-7
006013 -03	UST4A-SA-3W-7
006013 -04	USTA-SA-1W-6
006013 -05	USTA-SA-2B-6
006013 -06	USTA-SA-3E-4.5

The 8260D laboratory control sample exceeded the acceptance criteria for bromoform. The compound was not detected, therefore the data were acceptable.

All other quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/20 Date Received: 06/01/20 Project: Roystone Development PO 2017-015K, F&BI 006013 Date Extracted: 06/02/20 Date Analyzed: 06/02/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID

Results Reported on a Dry Weight Basis Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate <u>(% Recovery)</u> (Limit 48-168)
UST4A-SA-1B-8.5 006013-01	ND	ND	ND	94
UST4A-SA-2E-7 006013-02	ND	ND	ND	94
UST4A-SA-3W-7 006013-03	ND	D	ND	93
USTA-SA-1W-6 006013-04	ND	ND	ND	94
USTA-SA-3E-4.5 006013-06	ND	ND	ND	93
Method Blank ^{00-1215 MB}	ND	ND	ND	98

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/20 Date Received: 06/01/20 Project: Roystone Development PO 2017-015K, F&BI 006013 Date Extracted: 06/02/20 Date Analyzed: 06/02/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (<u>% Recovery</u>) (Limit 50-150)
USTA-SA-2B-6 006013-05	<5	89
Method Blank ^{00-1111 MB2}	<5	90

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/20 Date Received: 06/01/20 Project: Roystone Development PO 2017-015K, F&BI 006013 Date Extracted: 06/02/20 Date Analyzed: 06/02/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING METHOD 8021B

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Surrogate (<u>% Recovery)</u> (Limit 50-150)
USTA-SA-3E-4.5 006013-06	< 0.02	< 0.02	< 0.02	<0.06	81
Method Blank 00-1111 MB2	< 0.02	< 0.02	< 0.02	< 0.06	78

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/20 Date Received: 06/01/20 Project: Roystone Development PO 2017-015K, F&BI 006013 Date Extracted: 06/01/20 Date Analyzed: 06/01/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

<u>Sample ID</u> Laboratory ID	Diesel Range (C10-C25)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	Surrogate <u>(% Recovery)</u> (Limit 48-168)
USTA-SA-2B-6 006013-05	<50	<250	103
Method Blank ^{00-1213 MB}	<50	<250	107

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: Date Received: Date Extracted: Date Analyzed:	USTA-SA-2B-6 06/01/20 06/02/20 06/02/20	Client: Project: Lab ID: Data File:	The Riley Group Roystone Development PO 2017-015K 006013-05 006013-05.049
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		

Lead

152

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	The Riley Group
Date Received:	NA	Project:	Roystone Development PO 2017-015K
Date Extracted:	06/02/20	Lab ID:	I0-310 mb2
Date Analyzed:	06/02/20	Data File:	I0-310 mb2.047
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte: Lead	Concentration mg/kg (ppm)	, in the second s	

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	USTA-SA-2 06/01/20 06/02/20 06/02/20 Soil mg/kg (ppm	B-6 1) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone Development PO 2017-015K 006013-05 1/25 060204.D GCMS6 VM
Surrogates: Anthracene-d10 Benzo(a)anthracen	e-d12	% Recovery: 72 d 72 d	Lower Limit: 31 24	Upper Limit: 163 168
Compounds:		Concentration mg/kg (ppm)		
Benz(a)anthracene		< 0.05		
Chrysene		< 0.05		
Benzo(a)pyrene		< 0.05		
Benzo(b)fluoranthe		< 0.05		
Benzo(k)fluoranthe		< 0.05		
Indeno(1,2,3-cd)pyr		< 0.05		
Dibenz(a,h)anthrac	ene	< 0.05		

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E SIM

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 06/01/20 06/01/20 Soil mg/kg (ppm		Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone Development PO 2017-015K 00-1206 mb 1/5 060116.D GCMS6 VM
Surrogates: Anthracene-d10 Benzo(a)anthracen	e-d12	% Recovery: 71 99	Lower Limit: 31 24	Upper Limit: 163 168
Compounds:		Concentration mg/kg (ppm)		
Benz(a)anthracene		< 0.01		
Chrysene		< 0.01		
Benzo(a)pyrene		< 0.01		
Benzo(b)fluoranthe	ne	< 0.01		
Benzo(k)fluoranthe		< 0.01		
Indeno(1,2,3-cd)pyr		< 0.01		
Dibenz(a,h)anthrac	ene	< 0.01		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	USTA-SA- 06/01/20 06/02/20 06/02/20 Soil mg/kg (ppr	1W-6 n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone Developme 006013-04 060209.D GCMS4 MS	nt PO 2017-015K
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 104 105 100	Lower Limit: 62 55 65	Upper Limit: 145 145 139	
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluorome Chloromethane Vinyl chloride Bromomethane Chloroethane Trichlorofluoromet Acetone 1,1-Dichloroethene Hexane Methylene chloride Methyl t-butyl ethe trans-1,2-Dichloroethane 2,2-Dichloropropart cis-1,2-Dichloroethane 2,2-Dichloropropart cis-1,2-Dichloroethane 1,1-Dichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Dichloropropart Carbon tetrachlorie Benzene Trichloroethene 1,2-Dichloropropart Bromodichloromet Dibromomethane 4-Methyl-2-pentane cis-1,3-Dichloropro	hane er (MTBE) ethene ene (EDC) ne e de hane one	$\begin{array}{c} < 0.5 \\ < 0.5 \\ < 0.05 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.25 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < $	Tetrach Dibromo 1,2-Dibr Chlorob Ethylber 1,1,1,2-T m,p-Xyle o-Xylene Styrene Isopropy Bromofo n-Propy Bromob 1,3,5-Tr 1,1,2,2-T 1,2,3-Tr 2-Chloro 4-Chloro tert-But 1,2,4-Tr sec-Buty p-Isopro 1,3-Dich 1,2-Dibr 1,2,4-Tr Hexach	nzene Cetrachloroethane ene ene dibenzene orm lbenzene enzene imethylbenzene Cetrachloroethane ichloropropane otoluene ylbenzene imethylbenzene dibenzene pyltoluene lorobenzene lorobenzene omo-3-chloropropane ichlorobenzene orobutadiene	$\begin{array}{c} < 0.05 \\ < 0.025 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.25 \\ < 0.25 \end{array}$
trans-1,3-Dichlorog 1,1,2-Trichloroetha 2-Hexanone	-	<0.05 <0.05 <0.5	Naphtha 1,2,3-Tr	alene ichlorobenzene	<0.05 <0.25

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	USTA-SA- 06/01/20 06/02/20 06/02/20 Soil mg/kg (ppr	2B-6 n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone Developme: 006013-05 060210.D GCMS4 MS	nt PO 2017-015K
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 103 105 101	Lower Limit: 62 55 65	Upper Limit: 145 145 139	
Compounds:		Concentration mg/kg (ppm)	Compou	inds:	Concentration mg/kg (ppm)
Dichlorodifluorome Chloromethane Vinyl chloride Bromomethane Chloroethane Trichlorofluoromet Acetone 1,1-Dichloroethene Hexane Methyl ene chloride Methyl t-butyl ethe trans-1,2-Dichloroethane 2,2-Dichloropropar cis-1,2-Dichloroethane 1,1-Dichloroethane 2-Butanone (MEK) 1,2-Dichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,2-Dichloropropar Carbon tetrachlorid Benzene Trichloroethene 1,2-Dichloropropar Bromodichloromethane 4-Methyl-2-pentane cis-1,3-Dichloropro	hane er (MTBE) ethene ene (EDC) ne e de nane one pene	$\begin{array}{c} < 0.5 \\ < 0.5 \\ < 0.05 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0$	Tetrach Dibromo 1,2-Dibr Chlorob Ethylber 1,1,1,2-T m,p-Xyle o-Xylene Styrene Isopropy Bromofo n-Propy Bromob 1,3,5-Tr 1,1,2,2-T 1,2,3-Tr 2-Chloro 4-Chloro tert-But 1,2,4-Tr sec-Buty p-Isopro 1,3-Dich 1,2-Dibr 1,2,4-Tr Hexach	nzene Fetrachloroethane ene ene ene ylbenzene orm lbenzene enzene imethylbenzene Fetrachloroethane ichloropropane otoluene otoluene ylbenzene imethylbenzene ylbenzene engyltoluene ilorobenzene ilorobenzene ilorobenzene ilorobenzene ichloropropane ichloropropane ichloropropane ichlorobenzene omo-3-chloropropane ichlorobenzene orobutadiene	$\begin{array}{c} < 0.05 \\ < 0.025 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.25 \\ < 0.25 \\ \end{array}$
trans-1,3-Dichlorog 1,1,2-Trichloroetha 2-Hexanone	-	<0.05 <0.05 <0.5	Naphtha 1,2,3-Tr	alene ichlorobenzene	<0.05 <0.25

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bl Not Applic 06/02/20 06/02/20 Soil mg/kg (pp		Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone Developme 00-1165 mb2 060208.D GCMS4 MS	nt PO 2017-015K
a .		07 D	Lower	Upper	
Surrogates:	.] /	% Recovery:	Limit:	Limit:	
1,2-Dichloroethane Toluene-d8	9-04	$\frac{105}{104}$	$\begin{array}{c} 62 \\ 55 \end{array}$	$145\\145$	
4-Bromofluorobenz	ene	104	55 65	145	
4 Dromondorobenz	lene		00	100	
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluorome	ethane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrach	loroethene	< 0.025
Vinyl chloride		< 0.05		ochloromethane	< 0.05
Bromomethane		< 0.5		omoethane (EDB)	< 0.05
Chloroethane	-	< 0.5	Chlorob		< 0.05
Trichlorofluoromet	hane	< 0.5	Ethylbe		< 0.05
Acetone		<5		Fetrachloroethane	< 0.05
1,1-Dichloroethene		<0.05 <0.25	m,p-Xyl		<0.1 <0.05
Hexane Methylene chloride	`	<0.25 <0.5	o-Xylene Styrene	2	<0.05 <0.05
Methyl t-butyl ethe		<0.05		vlbenzene	<0.05
trans-1,2-Dichloroe		<0.05	Bromofo		<0.05
1,1-Dichloroethane		< 0.05		lbenzene	< 0.05
2,2-Dichloropropan		< 0.05	Bromob		< 0.05
cis-1,2-Dichloroeth		< 0.05	1,3,5-Tr	imethylbenzene	< 0.05
Chloroform		< 0.05	1,1,2,2-7	Tetrachloroethane	< 0.05
2-Butanone (MEK)		< 0.5		ichloropropane	< 0.05
1,2-Dichloroethane	· · ·	< 0.05	2-Chlore		< 0.05
1,1,1-Trichloroetha		< 0.05	4-Chloro		< 0.05
1,1-Dichloropropen		< 0.05		ylbenzene	< 0.05
Carbon tetrachlorie	de	< 0.05		imethylbenzene	< 0.05
Benzene		<0.03		vlbenzene	<0.05
Trichloroethene 1,2-Dichloropropar		<0.02 <0.05		pyltoluene llorobenzene	<0.05 <0.05
Bromodichloromet		< 0.05		llorobenzene	<0.05
Dibromomethane	liane	<0.05		lorobenzene	< 0.05
4-Methyl-2-pentan	one	<0.5		omo-3-chloropropane	<0.5
cis-1,3-Dichloropro		< 0.05		ichlorobenzene	< 0.25
Toluene	-	< 0.05		orobutadiene	< 0.25
trans-1,3-Dichlorog	propene	< 0.05	Naphtha	alene	< 0.05
1,1,2-Trichloroetha	ine	< 0.05	1,2,3-Tr	ichlorobenzene	< 0.25
2-Hexanone		< 0.5			

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/20 Date Received: 06/01/20 Project: Roystone Development PO 2017-015K, F&BI 006013

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 005395-01 (Duplicate)							
		Samp	le Du	plicate			
	Reporting	Resu	lt R	esult	RPD		
Analyte	Units	(Wet V	Vt) (W	et Wt)	(Limit 20)		
Gasoline	mg/kg (ppm)	<5		<5	nm		
Laboratory Code: L	aboratory Contro	ol Sample	e Percent				
	Reporting	Spike	Recovery	Acceptance			
Analyte	Units	Level	LCS	Criteria			
Gasoline	mg/kg (ppm)	20	100	71-131			

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/20 Date Received: 06/01/20 Project: Roystone Development PO 2017-015K, F&BI 006013

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING EPA METHOD 8021B

Laboratory Code: 005395-01 (Duplicate)

		Sample	Duplicate	
	Reporting	Result	Result	RPD
Analyte	Units	(Wet Wt)	(Wet Wt)	(Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	92	69-120
Toluene	mg/kg (ppm)	0.5	89	70-117
Ethylbenzene	mg/kg (ppm)	0.5	90	65-123
Xylenes	mg/kg (ppm)	1.5	93	66-120

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/20 Date Received: 06/01/20 Project: Roystone Development PO 2017-015K, F&BI 006013

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 005394-03 (Matrix Spike)

			Sample	Percent	Percent			
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD	
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)	
Diesel Extended	mg/kg (ppm)	5,000	310	89	88	73-135	1	
Laboratory Code: Laboratory Control Sample								
			Percent					
	Reporting	Spike	Recovery	Acceptan	ce			
Analyte	Units	Level	LCS	Criteria	1			
Diesel Extended	mg/kg (ppm)	5,000	88	74-139				

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/20 Date Received: 06/01/20 Project: Roystone Development PO 2017-015K, F&BI 006013

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 005400-18 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Lead	mg/kg (ppm)	50	29.0	99	97	75 - 125	2

Laboratory Code: Laboratory Control Sample

	Jue. Laboratory Com	and Sample	Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Lead	mg/kg (ppm)	50	102	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/20 Date Received: 06/01/20 Project: Roystone Development PO 2017-015K, F&BI 006013

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PAHS BY EPA METHOD 8270E SIM

Laboratory Code: 005400-12 1/5 (Matrix Spike)

	Reporting	Spike	Sample Result	Percent Recovery	Percent Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Benz(a)anthracene	mg/kg (ppm)	0.17	< 0.01	80	81	23 - 144	1
Chrysene	mg/kg (ppm)	0.17	< 0.01	77	78	32 - 149	1
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	< 0.01	83	82	23 - 176	1
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	< 0.01	76	81	42 - 139	6
Benzo(a)pyrene	mg/kg (ppm)	0.17	< 0.01	77	78	21 - 163	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	< 0.01	47	47	23 - 170	0
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	< 0.01	45	45	31 - 146	0

Laboratory Code: Laboratory Control Sample 1/5

U U	v	1	Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benz(a)anthracene	mg/kg (ppm)	0.17	92	51-115
Chrysene	mg/kg (ppm)	0.17	93	55 - 129
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	89	56 - 123
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	82	54 - 131
Benzo(a)pyrene	mg/kg (ppm)	0.17	81	51 - 118
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	83	49-148
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	85	50 - 141

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/20 Date Received: 06/01/20 Project: Roystone Development PO 2017-015K, F&BI 006013

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 005366-04 (Matrix Spike)

Laboratory Code: 00536	56-04 (Matrix Spike	e)	a 1	D i	D		
			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	< 0.5	28	33	10-142	16
Chloromethane	mg/kg (ppm)	2.5	< 0.5	66	70	10-126	6
Vinyl chloride	mg/kg (ppm)	2.5	< 0.05	68	71	10-138	4
Bromomethane	mg/kg (ppm)	2.5	< 0.5	82	84	10-163	2
Chloroethane	mg/kg (ppm)	2.5	<0.5	79	82	10-176	4
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.5 <5	76 95	79 103	10-176	4
Acetone 1.1-Dichloroethene	mg/kg (ppm)	$12.5 \\ 2.5$	<0.05	95 78	83	10-163 10-160	8
Hexane	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	<0.05	78 80	83 82	10-137	2
Methylene chloride	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	<0.25 <0.5	80 92	82 94	10-137	2
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	<0.05	92 91	94 94	21-145	3
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	85	86	14-137	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	< 0.05	94	97	19-140	3
2,2-Dichloropropane	mg/kg (ppm)	2.5	< 0.05	93	94	10-158	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	91	93	25-135	2
Chloroform	mg/kg (ppm)	2.5	< 0.05	94	98	21-145	4
2-Butanone (MEK)	mg/kg (ppm)	12.5	< 0.5	94	99	19-147	5
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	< 0.05	89	92	12-160	3
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	< 0.05	92	94	10-156	2
1,1-Dichloropropene	mg/kg (ppm)	2.5	< 0.05	96	98	17-140	2
Carbon tetrachloride	mg/kg (ppm)	2.5	< 0.05	96	99	9-164	3
Benzene	mg/kg (ppm)	2.5	< 0.03	93	96	29-129	3
Trichloroethene	mg/kg (ppm)	2.5	< 0.02	89	92	21-139	3
1,2-Dichloropropane	mg/kg (ppm)	2.5	< 0.05	97	100	30-135	3
Bromodichloromethane	mg/kg (ppm)	2.5	< 0.05	104	106	23 - 155	2
Dibromomethane	mg/kg (ppm)	2.5	< 0.05	96	99	23 - 145	3
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	< 0.5	105	107	24 - 155	2
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	< 0.05	97	99	28-144	2
Toluene	mg/kg (ppm)	2.5	< 0.05	85	90	35-130	6
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	< 0.05	87	90	26-149	3
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	< 0.05	89	92	10-205	3
2-Hexanone	mg/kg (ppm)	12.5	< 0.5	92	96	15-166	4
1,3-Dichloropropane	mg/kg (ppm)	2.5	< 0.05	89	93	31-137	4
Tetrachloroethene	mg/kg (ppm)	2.5	< 0.025	85	87	20-133	2
Dibromochloromethane	mg/kg (ppm)	2.5	< 0.05	94	95	28-150	1
1,2-Dibromoethane (EDB) Chlorobenzene	mg/kg (ppm)	$2.5 \\ 2.5$	<0.05 <0.05	91 88	95 89	28-142 32-129	4
Ethylbenzene	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	<0.05	88	89 91	32-129 32-137	3
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.05	92	91 97	31-143	5
m,p-Xylene	mg/kg (ppm)	2.5 5	<0.05	92 88	97 91	34-136	3
o-Xylene	mg/kg (ppm)	2.5	<0.1	89	93	33-134	4
Styrene	mg/kg (ppm)	2.5	<0.05	89	93	35-134	4
Isopropylbenzene	mg/kg (ppm)	2.5	< 0.05	88	91	31-142	3
Bromoform	mg/kg (ppm)	2.5	< 0.05	101	102	21-156	1
n-Propylbenzene	mg/kg (ppm)	2.5	<0.05	90	92	23-146	2
Bromobenzene	mg/kg (ppm)	2.5	< 0.05	89	93	34-130	4
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	< 0.05	89	91	18-149	2
1.1.2.2-Tetrachloroethane	mg/kg (ppm)	2.5	< 0.05	94	100	28-140	6
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	< 0.05	88	91	25-144	3
2-Chlorotoluene	mg/kg (ppm)	2.5	< 0.05	88	90	31-134	2
4-Chlorotoluene	mg/kg (ppm)	2.5	< 0.05	89	91	31-136	2
tert-Butylbenzene	mg/kg (ppm)	2.5	< 0.05	89	91	30-137	2
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	< 0.05	88	90	10-182	2
sec-Butylbenzene	mg/kg (ppm)	2.5	< 0.05	90	93	23 - 145	3
p-Isopropyltoluene	mg/kg (ppm)	2.5	< 0.05	89	91	21-149	2
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	< 0.05	86	89	30-131	3
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	< 0.05	85	87	29-129	2
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	< 0.05	88	90	31-132	2
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	< 0.5	92	91	11-161	1
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	< 0.25	91	92	22-142	1
Hexachlorobutadiene	mg/kg (ppm)	2.5	< 0.25	91	92	10-142	1
Naphthalene	mg/kg (ppm)	2.5	< 0.05	88	90	14 - 157	2
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	< 0.25	91	92	20-144	1

ENVIRONMENTAL CHEMISTS

Date of Report: 06/04/20 Date Received: 06/01/20 Project: Roystone Development PO 2017-015K, F&BI 006013

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	68	10-146
Chloromethane	mg/kg (ppm)	2.5	109	27-133
Vinyl chloride	mg/kg (ppm)	2.5	89	22-139
Bromomethane	mg/kg (ppm)	2.5	82	38-114
Chloroethane	mg/kg (ppm)	2.5	96	9-163
Trichlorofluoromethane Acetone	mg/kg (ppm) mg/kg (ppm)	$2.5 \\ 12.5$	92 103	$10-196 \\ 52-141$
1,1-Dichloroethene	mg/kg (ppm)	2.5	88	47-128
Hexane	mg/kg (ppm)	2.5	95	43-142
Methylene chloride	mg/kg (ppm)	2.5	104	42-132
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	97	60-123
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	92	67-129
1,1-Dichloroethane	mg/kg (ppm)	2.5	99	68-115
2,2-Dichloropropane	mg/kg (ppm)	2.5	102	52-170
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	96	72-127
Chloroform	mg/kg (ppm)	2.5	98	66-120
2-Butanone (MEK)	mg/kg (ppm)	12.5	97	72-127
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	95	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	99	62-131
1,1-Dichloropropene	mg/kg (ppm)	2.5	102	69-128
Carbon tetrachloride	mg/kg (ppm)	2.5	107	60-139
Benzene	mg/kg (ppm)	2.5	98	68-114
Trichloroethene	mg/kg (ppm)	2.5	95	64-117
1,2-Dichloropropane Bromodichloromethane	mg/kg (ppm)	$2.5 \\ 2.5$	97 117	72-127 72-130
Dibromomethane	mg/kg (ppm) mg/kg (ppm)	2.5	102	72-130
4-Methyl-2-pentanone	mg/kg (ppm)	2.5 12.5	99	45-145
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	103	75-136
Toluene	mg/kg (ppm)	2.5	99	66-126
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	100	72-132
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	97	75-113
2-Hexanone	mg/kg (ppm)	12.5	92	33-152
1,3-Dichloropropane	mg/kg (ppm)	2.5	94	72-130
Tetrachloroethene	mg/kg (ppm)	2.5	99	72-114
Dibromochloromethane	mg/kg (ppm)	2.5	122	74-125
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	97	74-132
Chlorobenzene	mg/kg (ppm)	2.5	95	76-111
Ethylbenzene	mg/kg (ppm)	2.5	97	64-123
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	117	69-135
m,p-Xylene	mg/kg (ppm)	$\frac{5}{2.5}$	96 103	78-122
o-Xylene Styrene	mg/kg (ppm) mg/kg (ppm)	2.5 2.5	94	77-124 74-126
Isopropylbenzene	mg/kg (ppm)	2.5	101	74-120 76-127
Bromoform	mg/kg (ppm)	2.5	154 vo	56-132
n-Propylbenzene	mg/kg (ppm)	2.5	102	74-124
Bromobenzene	mg/kg (ppm)	2.5	99	72-122
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	104	76-126
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	110	56-143
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	98	61-137
2-Chlorotoluene	mg/kg (ppm)	2.5	101	74-121
4-Chlorotoluene	mg/kg (ppm)	2.5	98	75-122
tert-Butylbenzene	mg/kg (ppm)	2.5	107	73-130
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	101	76-125
sec-Butylbenzene	mg/kg (ppm)	2.5	106	71-130
p-Isopropyltoluene	mg/kg (ppm)	2.5	103	70-132
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	95 93	75-121
1,4-Dichlorobenzene 1,2-Dichlorobenzene	mg/kg (ppm)	2.5 2.5	93 99	74-117 76-121
1,2-Dibromo-3-chloropropane	mg/kg (ppm) mg/kg (ppm)	2.5	123	58-138
1.2.4-Trichlorobenzene	mg/kg (ppm)	2.5	123	64-135
Hexachlorobutadiene	mg/kg (ppm)	2.5	103	50-153
Naphthalene	mg/kg (ppm)	2.5	105	63-140
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	106	63-138

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

June 8, 2020

Jerry Sawetz, Project Manager The Riley Group, Inc. 17522 Bothell Way NE Bothell, WA 98011

Dear Mr Sawetz:

Included are the results from the testing of material submitted on June 3, 2020 from the Roystone Development PO 2017-015K, F&BI 006059 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Eric Dunham, Mingta Lin TRG0608R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 3, 2020 by Friedman & Bruya, Inc. from the The Riley Group Roystone Development PO 2017-015K, F&BI 006059 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	The Riley Group
006059 -01	UST6B-1

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/08/20 Date Received: 06/03/20 Project: Roystone Development PO 2017-015K, F&BI 006059 Date Extracted: 06/04/20 Date Analyzed: 06/04/20

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate <u>(% Recovery)</u> (Limit 56-165)
UST6B-1 006059-01	D	D x	ND	ip
Method Blank 00-1220 MB2	ND	ND	ND	77

ND - Material not detected at or above 0.2 mg/L gas, 0.5 mg/L diesel and 0.5 mg/L heavy oil.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

June 11, 2020

Jerry Sawetz, Project Manager The Riley Group, Inc. 17522 Bothell Way NE Bothell, WA 98011

Dear Mr Sawetz:

Included are the results from the testing of material submitted on June 5, 2020 from the Roystone PO 2017-015K, F&BI 006103 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Eric Dunham, Mingta Lin TRG0611R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 5, 2020 by Friedman & Bruya, Inc. from the The Riley Group Roystone PO 2017-015K, F&BI 006103 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	The Riley Group
006103 -01	UST10-PP1-2.5

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/11/20 Date Received: 06/05/20 Project: Roystone PO 2017-015K, F&BI 006103 Date Extracted: 06/08/20 Date Analyzed: 06/09/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (<u>% Recovery</u>) (Limit 50-150)
UST10-PP1-2.5 006103-01	< 0.02	< 0.02	< 0.02	<0.06	<5	85
Method Blank 00-1124 MB	< 0.02	< 0.02	< 0.02	< 0.06	<5	84

ENVIRONMENTAL CHEMISTS

Date of Report: 06/11/20 Date Received: 06/05/20 Project: Roystone PO 2017-015K, F&BI 006103 Date Extracted: 06/08/20 Date Analyzed: 06/08/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	Surrogate <u>(% Recovery)</u> (Limit 53-144)
UST10-PP1-2.5 006103-01	<50	<250	98
Method Blank ^{00-1252 MB}	<50	<250	89

ENVIRONMENTAL CHEMISTS

Date of Report: 06/11/20 Date Received: 06/05/20 Project: Roystone PO 2017-015K, F&BI 006103

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 006105-01 (Duplicate)

	Reporting	Sample Result	Duplicate Result	RPD
Analyte	Units	(Wet Wt)	(Wet Wt)	(Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	94	69-120
Toluene	mg/kg (ppm)	0.5	92	70-117
Ethylbenzene	mg/kg (ppm)	0.5	93	65 - 123
Xylenes	mg/kg (ppm)	1.5	97	66-120
Gasoline	mg/kg (ppm)	20	105	71 - 131

ENVIRONMENTAL CHEMISTS

Date of Report: 06/11/20 Date Received: 06/05/20 Project: Roystone PO 2017-015K, F&BI 006103

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code:	006103-01 (Matri	x Spike)					
			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	\mathbf{MS}	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	86	108	110	64-133	2
Laboratory Code:	Laboratory Contr	ol Samp	le				
		1	-				
	-	-	Percent	5			
	Reporting	Spike			tance		
Analyte	Reporting Units	Spike Level	Percent				

 $\mathbf{5}$

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Report To <u>Jerry</u> Company <u>Riley</u>	Some tz		SAMPL	ERS (sign	ature)	E	****	2	6		5 OQ	/	de autoreux			Page	# RNAROUNI	of /
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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

June 16, 2020

Jerry Sawetz, Project Manager The Riley Group, Inc. 17522 Bothell Way NE Bothell, WA 98011

Dear Mr Sawetz:

Included are the results from the testing of material submitted on June 8, 2020 from the Roystone 2017-015K, F&BI 006120 project. There are 14 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Mingta Lin, Eric Dunham TRG0616R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 8, 2020 by Friedman & Bruya, Inc. from the The Riley Group Roystone 2017-015K, F&BI 006120 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>The Riley Group</u>
006120 -01	UST6B-SA-1B-13
006120 -02	UST6B-SA-2W-10
006120 -03	UST6B-SA-3N-10
006120 -04	UST6B-SA-4E-10
006120 -05	SPL-6S-8

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/16/20 Date Received: 06/08/20 Project: Roystone 2017-015K, F&BI 006120 Date Extracted: 06/09/20 Date Analyzed: 06/09/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID

Results Reported on a Dry Weight Basis Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate <u>(% Recovery)</u> (Limit 48-168)
UST6B-SA-1B-13 006120-01	D	ND	ND	96
UST6B-SA-2W-10 006120-02	ND	ND	ND	92
UST6B-SA-3N-10 006120-03	ND	ND	ND	92
UST6B-SA-4E-10 006120-04	ND	ND	ND	99
Method Blank 00-1253 MB2	ND	ND	ND	98

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/16/20 Date Received: 06/08/20 Project: Roystone 2017-015K, F&BI 006120 Date Extracted: 06/09/20 Date Analyzed: 06/09/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING METHOD 8021B

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Surrogate (<u>% Recovery)</u> (Limit 50-150)
UST6B-SA-2W-10 006120-02	< 0.02	< 0.02	< 0.02	< 0.06	80
UST6B-SA-3N-10 006120-03	< 0.02	0.026	0.085	0.25	87
UST6B-SA-4E-10 006120-04	< 0.02	<0.02	<0.02	<0.06	79
Method Blank 00-1124 MB2	< 0.02	< 0.02	< 0.02	<0.06	83

ENVIRONMENTAL CHEMISTS

Date of Report: 06/16/20 Date Received: 06/08/20 Project: Roystone 2017-015K, F&BI 006120 Date Extracted: 06/09/20 Date Analyzed: 06/09/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (<u>% Recovery</u>) (Limit 50-150)
UST6B-SA-1B-13 006120-01 1/20	<0.4	<0.4	1.9	3.7	1,900	89
SPL-6S-8 006120-05	< 0.02	< 0.02	< 0.02	< 0.06	<5	80
Method Blank 00-1124 MB2	< 0.02	< 0.02	< 0.02	<0.06	<5	83

ENVIRONMENTAL CHEMISTS

Date of Report: 06/16/20 Date Received: 06/08/20 Project: Roystone 2017-015K, F&BI 006120 Date Extracted: 06/09/20 Date Analyzed: 06/09/20

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C10-C25)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	Surrogate <u>(% Recovery)</u> (Limit 48-168)
SPL-6S-8 006120-05	<50	<250	98
Method Blank 00-1300 MB	<50	<250	94

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	UST6B-SA-1B-13	Client:	The Riley Group
Date Received:	06/08/20	Project:	Roystone 2017-015K, F&BI 006120
Date Extracted:	06/10/20	Lab ID:	006120-01
Date Analyzed:	06/11/20	Data File:	006120-01.052
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)	operator.	51

Lead

8.54

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank NA 06/10/20 06/10/20 Soil mg/kg (ppm) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone 2017-015K, F&BI 006120 I0-332 mb2 I0-332 mb2.036 ICPMS2 SP
Analyte:	Concentration mg/kg (ppm)		
Lead	<1		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	UST6B-SA- 06/08/20 06/10/20 06/10/20 Soil mg/kg (ppm	1B-13) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone 2017-015K, F&BI 006120 006120-01 061028.D GCMS4 MS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz Compounds:		% Recovery: 103 98 97 Concentration mg/kg (ppm)	Lower Limit: 62 55 65	Upper Limit: 145 145 139
Hexane Methyl t-butyl ethe 1,2-Dichloroethane Benzene Toluene 1,2-Dibromoethane Ethylbenzene m,p-Xylene o-Xylene Naphthalene	e (EDC)	$\begin{array}{c} < 0.25 \\ < 0.05 \\ < 0.03 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.1 \\ < 0.05 \\ < 0.05 \\ < 0.05 \end{array}$		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blan Not Applica 06/10/20 06/10/20 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	The Riley Group Roystone 2017-015K, F&BI 006120 00-1262 mb 061011.D GCMS4 MS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz Compounds:		% Recovery: 100 103 96 Concentration mg/kg (ppm)	Lower Limit: 62 55 65	Upper Limit: 145 145 139
Hexane Methyl t-butyl etho 1,2-Dichloroethane Benzene Toluene 1,2-Dibromoethane Ethylbenzene m,p-Xylene o-Xylene Naphthalene	(EDC)	< 0.25 < 0.05 < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.1 < 0.05 < 0.05		

ENVIRONMENTAL CHEMISTS

Date of Report: 06/16/20 Date Received: 06/08/20 Project: Roystone 2017-015K, F&BI 006120

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING METHOD 8021B AND NWTPH-Gx

Laboratory Code: 006105-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	94	69-120
Toluene	mg/kg (ppm)	0.5	92	70-117
Ethylbenzene	mg/kg (ppm)	0.5	93	65 - 123
Xylenes	mg/kg (ppm)	1.5	97	66-120
Gasoline	mg/kg (ppm)	20	105	71 - 131

ENVIRONMENTAL CHEMISTS

Date of Report: 06/16/20 Date Received: 06/08/20 Project: Roystone 2017-015K, F&BI 006120

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 006104-01 (Matrix Spike)							
			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	94,000	1 b	1 b	73-135	0 b
Laboratory Code: L	Laboratory Code: Laboratory Control Sample						
			Percent				
	Reporting	Spike	Recovery	Acceptar	nce		
Analyte	Units	Level	LCS	Criteria	a		
Diesel Extended	mg/kg (ppm)	5,000	90	74-139)		

ENVIRONMENTAL CHEMISTS

Date of Report: 06/16/20 Date Received: 06/08/20 Project: Roystone 2017-015K, F&BI 006120

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 006138-32 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Lead	mg/kg (ppm)	50	22.1	85	87	75 - 125	2

Laboratory Code: Laboratory Control Sample

·	·	1	Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Lead	mg/kg (ppm)	50	99	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 06/16/20 Date Received: 06/08/20 Project: Roystone 2017-015K, F&BI 006120

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 006120-01 (Matrix Spike)

	au		Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Hexane	mg/kg (ppm)	2.5	< 0.25	77	77	10-137	0
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	< 0.05	99	99	21 - 145	0
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	< 0.05	94	94	12 - 160	0
Benzene	mg/kg (ppm)	2.5	< 0.03	94	94	29 - 129	0
Toluene	mg/kg (ppm)	2.5	< 0.05	90	90	35 - 130	0
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	< 0.05	95	95	28 - 142	0
Ethylbenzene	mg/kg (ppm)	2.5	< 0.05	92	92	32 - 137	0
m,p-Xylene	mg/kg (ppm)	5	< 0.1	94	94	34 - 136	0
o-Xylene	mg/kg (ppm)	2.5	< 0.05	97	97	33 - 134	0
Naphthalene	mg/kg (ppm)	2.5	< 0.05	100	100	14 - 157	0

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	Percent Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Hexane	mg/kg (ppm)	2.5	80	43-142
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	89	60-123
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	87	56 - 135
Benzene	mg/kg (ppm)	2.5	87	68-114
Toluene	mg/kg (ppm)	2.5	84	66-126
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	88	74 - 132
Ethylbenzene	mg/kg (ppm)	2.5	85	64-123
m,p-Xylene	mg/kg (ppm)	5	89	78 - 122
o-Xylene	mg/kg (ppm)	2.5	89	77 - 124
Naphthalene	mg/kg (ppm)	2.5	90	63-140

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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Ph. (206) 285-8282	Receiv	ved by:											Sa	mp	les 1	rece	ived a	t	12 °C	

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APPENDIX C

DECOMMISSIONING & DISPOSAL DOCUMENTATION





EZ Profile™[⋪]

Requested Facility: Chemical Waste Management (Hazardous Waste	e Facility)
□ Multiple Generator Locations (Attach Locations) 🗹 Request Certifica	ate of Disposal 🛛 Renewal? Original Profile Number:
A. GENERATOR INFORMATION (MATERIAL ORIGIN)	B. BILLING INFORMATION
1. Generator Name: Roystone on Queen Anne, LLC	1. Billing Name: Roystone on Queen Anne, LLC
2. Site Address: 631 Queen Anne Avenue N	2. Billing Address: 606 Maynard Avenue South Suite 251
(City, State, ZIP) Seattle WA 98109	(City, State, ZIP) Seattle WA 98104
3. County: King	3. Contact Name:Pui Leung
4. Contact Name: <u>Pui Leung</u>	4. Fmail: pleung@vibrantcities.com
5. Email: pleung@vibrantcities.com	5. Phone: (206) 659-5750 6. Fax:
6. Phone: (206) 659-5750 7. Fax:	7. WM Hauled?
8. Generator EPA ID: WAD988483384	8. P.O. Number: <u>2017-015K</u>
9. State ID: 🗹 N/A	9. Payment Method: 🗹 Credit Account 🗖 Cash 🗖 Credit Card
C. MATERIAL INFORMATION	D. REGULATORY INFORMATION
1. Common Name: INCO2 F002-D018 Listed Waste 0i1	1. EPA Hazardous Waste?☑ Yes*□ No
Describe Process Generating Material:	Code: <u>D018, F002</u>
Waste oil solution encountered inside UST discovered during construction.	2. State Hazardous Waste?
	3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? □ Yes* ☑ No
2. Material Composition and Contaminants:	4. Contains Underlying Hazardous Constituents?
1.0il Water Mixture 100 %	5. From an industry regulated under Benzene NESHAP? Yes* No
2.	6. Facility remediation subject to 40 CFR 63 GGGGG? Q Yes* No
3.	7. CERCLA or State-mandated clean-up?
4.	8. NRC or State-regulated radioactive or NORM waste? Yes* No
Total comp. must be equal to or greater than 100% ≥100%	*If Yes, see Addendum (page 2) for additional questions and space. 9. Contains PCBs? \rightarrow If Yes, answer a, b and c. \Box Yes \checkmark No
3. State Waste Codes: 🗹 N/A	a. Regulated by 40 CFR 761?
4. Color: black	b. Remediation under 40 CFR 761.61 (a)?
5. Physical State at 70°F: □ Solid ☑ Liquid □ Other:	c. Were PCB imported into the US?
6. Free Liquid Range Percentage: 100 to 100 \Box N/A	10 Decideted and (or Untreated
7. pH: to 🗹 N/A	Medical/Infectious Waste?
8. Strong Odor: 🗹 Yes 🗆 No Describe: sweet	11. Contains Asbestos? 🛛 Yes 🗹 No
9. Flash Point: $\Box < 140^{\circ}F \Box 140^{\circ}-199^{\circ}F \Box \ge 200^{\circ} \Box N/A$	→ If Yes: □ Non-Friable □ Non-Friable - Regulated □ Friable
E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION	F. SHIPPING AND DOT INFORMATION
1. Analytical attachedImage: Second seco	1. 🗹 One-Time Event 🛛 Repeat Event/Ongoing Business
Please identify applicable samples and/or lab reports:	2. Estimated Quantity/Unit of Measure: 7
Sample UST-A-Product applies to the waste	🗆 Tons 🗅 Yards 🗹 Drums 🗅 Gallons 🗅 Other:
	3. Container Type and Size: 55-gallon drums
	4. USDOT Proper Shipping Name: 🗹 N/A
2. Other information attached (such as MSDS)?	

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 – Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

☑ I am an Authorized Agent signing on behalf of the		Co	rtification Signature
confirmed with the Generator that information con as supporting documents provided, are accurate a		Ce	
Name (Print): Pui Leung	Date: <u>6/10/202</u> 0	P.	1
Title: Manager	_		-5
Company: Roystone On Queen /	Anne LLC		
THINK GREEN:	OUESTIONS? CALL 800 963	4776 FOR ASSISTANCE	Revised June 30. 2015 ©2015 Waste Management



EZ Profile™ Addendum

Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.

Profile Number: OR344922

C. MATERIAL INFORMATION

Describe Process Generating Material (Continued from page 1):

If more space is needed, please attach additional pages.

Material Composition and Contaminants (Continued from page 1):

If more space is needed, please attach additional pages.

5.		
6.		
7.		
8.		
9.		
	Total composition must be equal to or greater than 100%	≥100%

D. REGULATORY INFORMATION

Only questions with a "Yes" response in Section D on the EZ Profile™ form (page 1) need to be answered here.

1. EPA Hazardous Waste

a. Please list all USEPA listed and characteristic waste code numbers:

L. b. Is the material subject to the Alternative Debris standards (40 CFR 268.45)?		🖵 Yes	🗹 No
c. Is the material subject to the Alternative Soil standards (40 CFR 268.49)? \rightarrow 1	f Yes, complete question 4.	Yes	🗹 No
d. Is the material exempt from Subpart CC Controls (40 CFR 264.1083)?		Yes	🗹 No
\rightarrow If Yes, please check one of the following:			
Waste meets LDR or treatment exemptions for organics (40 CFR 264.10))82(c)(2) or (c)(4))		
□ Waste contains VOCs that average <500 ppmw (CFR 264.1082(c)(1))	– will require annual update.		
2. State Hazardous Waste $ ightarrow$ Please list all state waste codes:	· · ·		
3. For material that is Treated, Delisted, or Excluded $ ightarrow$ Please indicate the category,	, below:		
Delisted Hazardous Waste Delisted Hazardous Waste Delisted Hazardous Waste Delisted Waste Under 40 CFR 261.4	→ Specify Exclusion:		
Treated Hazardous Waste Debris Treated Characteristic Hazardous Wast	$e \rightarrow$ If checked, complete ques	tion 4.	
4. Underlying Hazardous Constituents $ ightarrow$ Please list all Underlying Hazardous Consti	tuents:		
toluene, ethylbenzene, xylene, naphthalene and chrysene			
5. Industries regulated under Benzene NESHAP include petroleum refineries, chemical ma		uct recovery plants, and	d TSDFs
a. Are you a TSDF? $ ightarrow$ If yes, please complete Benzene NESHAP questionnaire. If	not, continue.	🖵 Yes	🗖 No
b. Does this material contain benzene?		🗖 Yes	🗖 No
 If yes, what is the flow weighted average concentration? 			_ ppmv
c. What is your facility's current total annual benzene quantity in Megagrams?	🗖 <1 Mg	🗖 1–9.99 Mg 🗖 🗎	≥10 Mg
d. Is this waste soil from a remediation?		Yes	🗖 No
 If yes, what is the benzene concentration in remediation waste? 			_ ppmw
e. Does the waste contain >10% water/moisture?			🗖 No
f. Has material been treated to remove 99% of the benzene or to achieve <10 pp $$	mw?		🗖 No
g. Is material exempt from controls in accordance with 40 CFR 61.342?		🗖 Yes	🗖 No
ightarrow If yes, specify exemption:			
h. Based on your knowledge of your waste and the BWON regulations, do you beli	eve that this waste stream is sub	5	
treatment and control requirements at an off-site TSDF?			
6. 40 CFR 63 GGGGG \rightarrow Does the material contain <500 ppmw VOHAPs at the point of the second state of the			Nc Nc
 CERCLA or State-Mandated clean up → Please submit the Record of Decision or ot the evaluation for proper disposal. A "Determination of Acceptability" may be neede 			

8. NRC or state regulated radioactive or NORM Waste \rightarrow Please identify Isotopes and pCi/g:_____



Additional Profile Information

Profile Number: OR344922

C. MATERIAL INFORMATION

Material Composition and Contaminants (Continued from page 2):	If more space is needed, please attach a	additional pages.
10.		
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Total co	mposition must be equal to or greater than 100%	≥100%

D. REGULATORY INFORMATION

1. EPA Hazardous Waste

a. Please list all USEPA listed and characteristic waste code numbers (Continued from page 2):

2. Form Code: W113

3. Source Code: G45

|--|

LAND DISPOSAL RESTRICTION (LDR) NOTIFICATION AND **CERTIFICATION FORM (PHASE IV)**

2 IN FPA HAZARDOUN	Generator	Name: Roystone on Que	een Anne, LLC		
Ref. # 2. Us by AnACARDOUS (If not applicable, simply check NONE) BE MANAGEDF ENTER LIP 1. D018 N/A A 2. F002 N/A A 3. A A A 4. A A A 3. A A A 4. A A A 3. A A A 4. A A A 1. bits definition of deris and subject to the alternate treatment standards in 28.4.5, check Item: A 2. In column 3. for each waste code() use Land Disposal ketification/Cetification Supplemental form (VM-2005-0) and check here: A 3. In column 4. for each waste code, identify the subcategory for explice, or check NDE if the waste code has no subcategory. A 4. In columa 4. for each waste code. identify the subcategory for explice, or check NDE if the waste code has no subcategory. A 5. In columa 4. for each waste code. identify the subcategory for the popplemental for for topplemental for topplemental for topplemental code base. A 6. In columa 4. for one waste code. identify any of the soce das apply. check appopplementa top balow. 6. In co	Profile Nu	nber: OR344922	Manifest Number:		
L D018 N/A Annu 2. F002 N/A A 3. A A 4. A A 4. A A 4. A A 5. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Montement and	Ref. #		(If not applicable, simply ch	eck NONE)	4. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
2. F002 N/A Image: Control of the set of the	1	D018			
3.					
4. 1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2). Check ONE:		1002	N/A		<u>A</u>
 Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: [] Non-Wastewater [] Wastewater for hazardous debris meeting the definition of debris and subject to the alternate treatment standards in 268.45, check here: [] In column 2, identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. To list additional waste code() use Land Disposal Notification/Certification Supplemental form (CMN-2005-D) and check here: [] In column 4, enter the letter from the list below (A. – D.) that describes how the waste must be managed to comply with the land disposal Restrictions be landfilled without (Inflat treatment). If you enter 8.1, 8.3, 8.6 or D, you are certifying that the waste meets all the land disposal Restrictions be landfilled without (Inflat treatment). If you enter 8.1, 8.3, 8.6 or D, you are certifying that the waste meets all the land disposal Restrictions be landfilled without (Inflat treatment). If you enter 8.1, 8.3, 8.6 or D, you are certifying that the waste meets all the land disposal Restrictions be landfilled without (Inflat treatment). If you enter 8.1, 9.0, are exited, but still requires treatment for lists at students of the regulatory citations different from the waste meets all the land disposal restrictions the regulatory citations different from the 4.0 CFR 2001-0043, must be identified unless: treatment facility will monitor for all constituents. If any of these codes apply, check appropriate box below: To list the landfilled without inner are present at the point of generation, check here: [] WIANAGEMENT METHODS A RESTRUCTED WASTE REQUIRES TREATMENT This waste must be treated to the applicable treatment standards set forth in 40 CFR 268.40. RESTRUCTED WASTE REQUIRES TREATMENT FOR NANACE STANDARDS Terrify under penal					
For hazardous debris meeting the definition of debris and subject to the alternate treatment standards in 268.45, check here: 2. In column 2, identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CRW 2005-D) and check here: 3. In column 3, for each waste code, identify the subcategory if one applies, or check NONE if the waste code has no subcategory. 4. In column 4, enter the letter from the list below (A, – D.) that describes how the waste must be managed to comply with the land Disposal Retrictions be landfilled without further treatment. If you enter B1, A3, B6 or D, you are certifying that the waste meets all the land Disposal Retrictions be landfilled without further treatment. If you enter B1, A3, B6 or D, you are certifying that the waste meets all the land Disposal Retrictions be landfilled without further treatment. If you enter B1, A3, B6 or D, you are certifying that the waste meets all the land Disposal Retrictions be landfilled without further treatment. If you enter B1, A3, B6 or D, you are certifying that the waste meets all the land Disposal Retrictions be landfilled without further treatments. If you enter B1, A3, B6 or D, you are certifying that the waste meets all stadd or B1.5 form M00-D043, must be identified unless: treatment facility will monitor for all constituents. If any of these codes apply, check appropriate box below: 4. To identify constituents of concern for P00.7065 and F033 and UAS, use the Identification of Constituents of Concern Form (CWA-2007) and check here: 4. If furtheration facility will monitor for all constituents of concern (except dioxins), check here: 4. If MAAGEMENT METHODS 4. RETRICTED WASTE REQUIRES TREATMENT This waste must be readed to the applicable treatment standards set forth in 40 CFR 268.40. 4. RETRICTED WASTE REQUIRES TREATMENT This waste must be readed to the applicable treatment standards specified in 40 CFR 268.40 without impremissible or the prohibited waste. I an aware there are significant penaltis					
• To list additional waste code(s) use Land Disposal Notification/Certification Supplemental Form (CWM-2007-0) and check here:					
 A. In column 4, enter the letter from the list below (A. – D.) that describes how the waste must be managed to comply with the land disposal restriction regulations in 40 CTR 268. Please note that if you enter B.1, B.3, B.6 or D, you are certifying that the waste mests all the Land Disposal Restrictions be landfilled without further treatment. If you enter B.4, you are certifying that the waste has been decharacterized, but still equivals treatment for (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CTR citations listed on this form. Where the regulatory citations different from the 40 CTR citations listed on this form. Where the regulatory citations different from the 40 CTR citations listed on this form. Where the regulatory citations different from the 40 CTR (citations listed on this form. Or 1004.3, must be identified unless treatment facility will monitor for all constituents. If any of these codes apply, check appropriate box below: To identify constituents of concern for 001-F005, F039 and UHCs, use the Identification of Constituents of Concern Form (CWM-2007) and check here: If incinentation facility will monitor for all constituents of concern (except dioxins), check here: MANAGEMENT METHODS RESTRICTED WASTE REQUEST REATMENT This waste must be treated to the applicable treatment standards set forth in 40 CFR 268.40. RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS T certify under penalty of and wrat the are significant penaltis for submitting a lake certification including the possibility of the and imprison the set was the treated and maintained properly so as to comply with the treatment technology and operation of the treatment proces to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the rows organic constituents deepite having used best faith efforts to analyze for such con					
<pre>regulations in 40 CFR 268. Please note that if you enter B.1, B.3, B.6 or D, you are certifying that the waste mets all the Land Disposal Restrictions be landfilled without further treatment. If you enter B.4, you are certifying that the waste has been decharacterized, but still regulators that similar to the set and the se</pre>	3. In colu i	nn 3 , for each waste code, identify	/ the subcategory if one applies, or check NONE i	f the waste code has no s	ubcategory.
treatment facility will monitor for all constituents. If any of these codes apply, check appropriate box below: • To identify constituents of concern for FOO1-FOOS, FO39 and UHCs, use the Identification of Constituents of Concern Form (CWM-2007) and check he	regulati be landi (States regulato	ons in 40 CFR 268. Please note th filled without further treatment. I authorized by EPA to manage the I ory citations differ, your form will b	at if you enter B.1, B.3, B.6 or D, you are certify you enter B.4, you are certifying that the waste DR program may have regulatory citations differ be deemed to refer to those state citations as we	ing that the waste meets has been decharacterized ent from the 40 CFR citati II as 40 CFR.)	all the Land Disposal Restrictions and ma d, but still requires treatment for UHCs. ons listed on this form. Where these
 A RESTRICTED WASTE REQUIRES TREATMENT This waste must be treated to the applicable treatment standards set forth in 40 CFR 268.40. 8.1 RESTRICTED WASTE REATED TO PERFORMANCE STANDARDS	treatme • To ic • If UI	nt facility will monitor for all cons lentify constituents of concern for HCs are applicable, but none are pr	tituents. If any of these codes apply, check app F001-F005, F039 and UHCs, use the Identificatio esent at the point of generation, check here:	propriate box below: n of Constituents of Conce	
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	I hereby cer	tify that all information submitted	in this and all associated documents is complete	e and accurate to the best	of my knowledge and information.
	Name: (Prin	b Pui Leung	Title:	Manager	
		$\mathcal{P}_{\mathcal{I}}$		-	

Signature: __

Date:

A



Hazardous WAM Approval

Requested Management Facility: Chemical Waste Management (Hazardous Waste Facility)

Profile Number: OR344922

Waste Approval Expiration Date: 06/09/2021

APPROVAL DETAILS

Hazardous Classification: <u>RCRA Hazardous</u>

Profile Renewal: 🗖 Yes 🗹 No

Management Method: <u>Transship for Alternate Treatment</u>

Generator Name: <u>Roystone on Queen Anne, LLC</u>

Material Name: INCO2 F002-D018 Listed Waste Oil

Management Facility Precautions, Special Handling Procedures or Limitation on approval:

Generator Conditions

- Must meet applicable OSHA, DOT packaging, labeling, shipping and manifesting requirements per 49 CFR.
- An EPA form 8700-22 must be used for all hazardous shipments and may be ordered from an authorized vendor or your TSC.
- The WM decision is based on specific parameters defined within this waste profile. Waste received that is non-conforming in any way will need to be re-evaluated and managed in accordance with all RCRA and State regulations. If alternative treatment is not available and the waste cannot be managed it will be rejected back to the generator.
- Approval number must accompany shipment.
- A signed Land Ban Notification/Certification must accompany the first shipment to the disposal facility. A new certification must be provided upon any change in the wastestream.
- Drummed waste must be marked with profile number on top & side of the containers & bear only the appropriate labeling under RCRA and/or DOT provisions
- Chemical Waste Management has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.
- Approved for non-bulk packaging only.

Must be scheduled. Please contact Bob Mulholland (rmulholl@wm.com) or Tina Weiser (tweiser@wm.com).

WM Authorization Name: Leslie Fichera	Title: <u>Waste Approval Manager</u>
WM Authorization Signature: _ Leslie fichera	Date: 06/09/2020
Agency Authorization (if Required):	Date:

THINK GREEN?

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE

Last Revised April 11, 2014 ©2014 Waste Management

Transaction Detail Report

Ticket Created Criteria: 06/01/2020 12:00 AM to 08/25/2020 11:59 PM Business Unit Name: Chem Waste Landfill - S04273 (USA) User: messig Date: Aug 25 2020, 3:17:38 PM - Central Standard Time Operation Type: All Customer Name: ROYSTONE ON QUEEN ANNE LLC (Roystone on Queen Anne, LLC) Ticket Type: All Customer Type: All PMT Category: All

Profile:

Ticket Creation									Manual Ticket						
Date	Time In	Time Out	Oper. In	Oper. Out	Ticket	Customer	Carrier	Vehicle	No	Manifest	Profile	Material	Rate	Rate Unit	Tons
											OR343850 / LF04 - PCE/TCE IMPACTED				
7/1/2020 10:09	6/30/2020 10:06	6/30/2020 10:06	nfletche	nfletche	30257	Roystone on Queen Anne, LLC	CRL	RAIL	476893	013792690FLE	SOIL	RCRA Disp-Tons	\$105.00	TON	16.47
											OR343850 / LF04 - PCE/TCE IMPACTED				
7/1/2020 16:34	6/30/2020 16:30	6/30/2020 16:30	nfletche	nfletche	30292	Roystone on Queen Anne, LLC	CRL	RAIL	476928	013792689FLE	SOIL	RCRA Disp-Tons	\$105.00	TON	15.41
											OR343850 / LF04 - PCE/TCE IMPACTED				
7/14/2020 13:30	7/14/2020 13:30	7/14/2020 13:30	nfletche	nfletche	30387	Roystone on Queen Anne, LLC	CRL	RAIL	476927	013792691FLE	SOIL	RCRA Disp-Tons	\$105.00	TON	18.19
											OR344922 / INC02 F002-D018 Listed				
7/15/2020 8:58	7/15/2020 8:58	7/15/2020 8:58	nfletche	nfletche	30426	Roystone on Queen Anne, LLC	CRL	RAIL	476947	019236396JJK	Waste Oil	RCRA Outb-Each DM55	\$435.00	EA	1.47
											OR343850 / LF04 - PCE/TCE IMPACTED				
8/19/2020 11:31	8/19/2020 11:30	8/19/2020 11:30	nfletche	nfletche	31356	Roystone on Queen Anne, LLC	CRL	RAIL	476954	013792683FLE	SOIL	RCRA Disp-Tons	\$105.00	TON	11.22
Total															62.76

		STRAIGHT BILL OF LADING			Shipper No.	078	307
		MARINE VACUUM SERVICE INC.				N	
Page	of 4			(SCAC)	Date	May-	22.20
On Collect on Delivery ships TO:	nems the letter	s 1000° must appear belore consignee's name or as otherwise provided in litem 430. Sec 1	FROM: FLL	HER	lat .		
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Street 151	6 SOI	JTH GRAHAM STREET	and atte	sun-v	State /	VZip Code	1
City SEAT	TLE	State WA Zip Code 98108	24/2 Emergency In	0010	TEL 1-800-2 RACT MISS	55-3924 527926	
Route			in the second	and the second sec		nicle L	Øb
No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class	s, Packing Group	TOTAL QUANTITY (Weight, Volume,	WEIGHT (Subject to	RATE	CHARGES (For Carrier
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1 TT	x	(DOT SPEC TANK REQUIRED)	500,101				
1 TT	X	UN1203 GASOLINE, CLASS 3, PG II NA1993 DIESEL MIXTURE, CLASS 3,					
			ru III			-	
1 17	x	NA1993 DIESEL, CLASS 3. PG III				-	
177	X	NA1270 PETROLEUM OIL, CLASS 3, F	PG I			_	
1 TT	X	NA1270 PETROLEUM OIL, MIXTURE,	CLASS 3, PG I				
111		OILY WASTE WATER NON REG BY I	DOT	250	callo	4	
1.11		WASTE WATER NON REG BY DOT			1 -	1	
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1 TT		STREET WASTE STORM PIPE CLEAN	ING				
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must be so marked and a	ickayed as to - Freight Bills av	Interest care or attention in handling or stowing ensure state intracportation. See Section 2(e) of of Statements. of Changes and Sochore 1(a) of list of suider intodes. Signature	The carter shall not make length and all other lawful chart,	delivery of this shoreent with jet	FREIG	FREIGHT CHAR INT PREPAID Cre when box at checked	NGES Hof 50 + / pharges Interto be contect
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0058	ession of the pro	reg understood throughout this containst as meaning any period or corporation in openly under the contract) agrees to carry to its issuel place of deferry of said desti- ordenerves to believe to another carrier on the route to said destination. It is moti- an carrier of sail or uny oil, said property over nall or any portion of said relations.	Shipper terreby or governing classification accepted for himself and	entries about the is tamilian writt and the said terms and conditio d his assigns.	in the lading terms are os are heredy agreed to	o conditions in the by the shipper an	đ
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	PRODUCT TR MARINE VACU 24 HOUR EMERGENCY	OF LADING ANSPORT MANIFEST UUM SERVICE, IN PHONE NUMBER (206) 76 IBER 206-763-8084 27 DATE	2-0240
TO DESTINATION NAME / STREET / X CITY/STATE _ QUANTITY		CITY/STATE	HEIGHTS EK DELM ANNE AVE N TE, WA SELOG
//////	3000 646 051	FOR DISPOSAL	Fill Uf Concret
RECEIVER	SLUDGE 744 DATE	SHIPPER	CATE C-C-Z-C
NOTE.		Ê	- l

01 8

Customer warrants that the waste petroleum products being transferred by the above collector do not contain any containnates including without limitations pesticides, chlorinated solvents at concentrations greater than 1000 PPM, any detectable levels of PCBs, or any other material classified as dangerous or hazardous waste by 40 CFR Part 261, Subpart C and D (implementing the Federal Resource Conservation and Recover Act), or by any equivalent state dangerous or hazardous substance classification programs. Should laboratory tests find this waste not in compliance with 40 CFR Part 261, customer (generator) agrees to pay for all disposal costs. Incurred,

BILL OF LADING PRODUCT TRANSPORT MANIFEST MARINE VACUUM SERVICE, INC. 24 HOUR EMERGENCY PHONE NUMBER (206) 762-0240 FAX NUMBER 206-763-8084///20	Nº 00745
TO DESTINATION NAME Mayine Vacuum Survice NAME EIK HEIGHTS STREET 156 3 Graham St STREET 23 William Anno CITY/STATE Scattle, UN QUANTITY PROPER SHIPPING NAME QUANTITY PROPER SHIPPING NAME QUANTITY STATE SOD GUILON UST For disposed	Ave D BER
SLUDGE RECEIVER R.C. ALLOS DATE NOTE	DATE 5-1-20

Customer warrants that the waste petroleum products being transferred by the above collector do not contain any contaminates including without limitations, pesticides, chlorinated solvents at concentrations greater than 1000 PPM, any detectable levels of PCBs, or any other material classified as dangerous or hazardous waste by 40 CFR Part 261, Subpart C and D (implementing the Federal Resource Conservation and Recover Act) or by any equivalent state dangerous or hazardous substance classification programs. Should laboratory tests find this waste not in compliance with 40 CFR Part 261, customer (generator) agrees to pay for all disposal costs incurred.

SOUND TESTING, INC.		
P.O. BOX 16204 SEATTLE, WA 98116 (206) 932-0206 FAX (206) 937-3848	MARINE CHEN	MIST CERTIFICATE
WWW.SOUNDTESTINGINC.COM	S	ERIAL Nº 47613
MARINE JACKLEM	Vessel Owner or Agent	JUNE 1 2020
PLEASE SEE BELOW		Date EPGROUND TANKS
Vessel	STEEL SYLINDRICA UNDI	Specific Location of Vessel
HEATING FUEL	De LEL VISUAL	10 AM
		Time Survey Completed
HOME HEATING DIL 6	200-GAL (WEST)	BOTH THESE
		TANKS FREE
		DF
10-10-10-10-10-10-10-10-10-10-10-10-10-1		COMBUSTIBLE
BOILER FLEL - WASTE	EDIL - 500-GAL (FAST)	GAS. MAY
		BE SAFELY
		TRANSPORTED
		ON PUBLIC
		HIGHWAYS.
	-	, , ,
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	/	SECURED FOR
		TRANSPORT.
1		
	N. Contraction	BERM EAST
		TANK - HAS
		SEVERAL OPENINGS,
In the event of changes	adversely affecting conditions in the above spaces, or if in a	ny doubt,

listed above shall be considered "NOT SAFE" unless otherwise specifically designated. STANDARD SAFETY DESIGNATIONS

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

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

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

Date

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

"The undersigned acknowledges receipt of this Certificate and understands conditions and limitations under which it was issued."

Name

Signed

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-malifications and instructions.

and is issued subject to compliance with all qu Signed

POSTING

Company

SOUND TESTING, INC.

P.O. BOX 16204 SEATTLE, WA 98116

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

WWW.SOUNDTESTINGINC.COM

MARINE CHEMIST CERTIFICATE CEDIAT

Certificate No

MARINE VACUUM		SERIAL
Survey Requested by UST Vessel	Vessel Owner or Agent UST Type of Vessel	JUNE 8, 2020 681 OVEEN ANDE Date SEATTLE WA
Sいたみ ディレム ast Three (3) Loadings	O2=2017, UE LEUT, VISUA Tests Performed	Specific Location of 9.15-4 Time Survey Co
~2500g UST	SAFE FOL EXCAVATION	
	SAFE FOR TRANSPORTA	
MNK 15 SLUPRY -FILLE	D+ OTEN TO ATRASSING	
	DT OVEN TO ATMOSPHER	
In the event of change immediately	s adversely affecting conditions in the above spaces, or y stop all work and contact the underside of spaces.	r if in any doubt,
fications: Manipulation of volver and the	to alter conditions in pipe lines or tanks noted above unless so	emist.
	STANDARD SAFETY DESIGNATIONS htry and Hot Work.) The Marine Chemist may request additional mea	
sive Limit, and (c) airborne toxic materials are within permi	(a) the oxygen content is between 19.5% and 22% by volume, and issible concentrations as listed in OSHA's Subpart 7 or in ACCIMUS and issible concentrations as listed in OSHA's Subpart 7 or in ACCIMUS and issible concentrations as listed in OSHA's Subpart 7 or in ACCIMUS and issible concentrations as listed in OSHA's Subpart 7 or in ACCIMUS and issible concentrations as listed in OSHA's Subpart 7 or in ACCIMUS and issible concentrations as listed in OSHA's Subpart 7 or in ACCIMUS and issible concentrations as listed in OSHA's Subpart 7 or in ACCIMUS and issible concentrations as listed in OSHA's Subpart 7 or in ACCIMUS and issible concentrations as listed in OSHA's Subpart 7 or in ACCIMUS and issible concentrations as listed in OSHA's Subpart 7 or in ACCIMUS and issible concentrations as listed in OSHA's Subpart 7 or in ACCIMUS and issible concentrations as listed in OSHA's Subpart 7 or in ACCIMUS and issible concentrations as listed in OSHA's Subpart 7 or in ACCIMUS and issible concentrations as listed in OSHA's Subpart 7 or in ACCIMUS and issible concentrations as listed in OSHA's Subpart 7 or in ACCIMUS and issible concentrations as listed in OSHA's Subpart 7 or in ACCIMUS and issible concentrations as listed in OSHA's Subpart 7 or in ACCIMUS and issible concentrations as listed in OSHA's Subpart 7 or in ACCIMUS and its as a set of the ACCIMUS as	(b) combustible gas is less than 10% of the Lower
FOR HOT WORK moons that (a) and	e is less than 22% by volume; and (b) the combustible gas is less th	anent ist of threshold Limit Values.
SAFE FOR HOT WORK: In the compartment or space so o	cate.	o been separated, blanked, or locked out, and nearb
idersigned acknowledges receipt of this Certificate and understands co		
and a was issued	and is issued subject to compliance with all	ting at the time the inspection herein set forth was completed qualifications and instructions.
dNameCo	mipany Date Signed Marine Ch	imise North

POSTING

Marine Vacuum Service, Inc. PO. Box 24263 Seattle, Washington 98124

GENERAL CONTRACTOR CONTRACTORS LICENSE # MARINVS097JA Telephone (206) 762-0240 FAX (206) 763-8084 1-800-540-7491

AST/UST STORAGE TANK PUMP & RINSE CERTIFICATE

Tank Size:	2000	GALLOW			
Last Contents	Hydro	CARBIN	/		
Tank Location: _	631	Queen	ANAC	WE	N
	Senta	E.WA	93185		

Marine Vacuum Service, Inc. certifies that the above mentioned tank(s) have been triple rinsed in accordance with the industry standard as outlined in 40 CFR PART 280.70, WAC 173-360-380(I), API 1604, API 2015 and that all residual product and rinsate has been disposed of in accordance with Federal, State and Local regulations. Tanks listed above are NOT GAS FREE or NOT SAFE FOR HOT WORK

Tank Owner:

Contractor:

M.V.S. Representative

Date:

Notes:

DBE # D4M1302341

EPA # WAD980974521

Marine Vacuum Service, Inc.

GENERAL CONTRACTOR CONTRACTORS LICENSE # MARINVS097JA P0. Box 24263 Seattle, Washington 98124 Telephone (206) 762-0240 FAX (206) 763-8084 1-800-540-7491

STORAGE TANK

CERTIFICATE OF DESTRUCTION

DATE: 06/08/2020

TANK OWNER: S TOLLER LLC

TANK LOCATION: 631 QUEEN ANNE AVE N SEATTLE, WA 98109

TANK DESCRIPTION: 3000 GALLON UST

LAST CONTENTS HELD IN TANKS: HYDRO CARBON.

Marine Vacuum Service, Inc certifies that the tank mentioned above was pumped of all liquid materials and washed clean with a high-pressure washer and soap solution. The tank and contents therein have been disposed of according to all Local, State and Federal Regulations.

Thank you, or le

Marine Vacuum Service, Inc.

DBE # D4M0002341

SDVO

EPA # WAD980974521

Marine Vacuum Service, Inc.

GENERAL CONTRACTOR CONTRACTORS LICENSE # MARINVS097JA P0. Box 24263 Seattle, Washington 98124 Telephone (206) 762-0240 FAX (206) 763-8084 1-800-540-7491

AST/UST STORAGE TANK PUMP & RINSE CERTIFICATE

Tank Size: _		500	gal	llon	-
Last Contents	Hya		ark	m)
Tank Location:	631	avec	n!	Inne	Aven
	Ser	the,	WA	981	09

Marine Vacuum Service, Inc. certifies that the above mentioned tank(s) have been triple rinsed in accordance with the industry standard as outlined in 40 CFR PART 280.70, WAC 173-360-380(I), API 1604, API 2015 and that all residual product and rinsate has been disposed of in accordance with Federal, State and Local regulations. Tanks listed above are <u>NOT GAS FREE</u> or <u>NOT SAFE FOR HOT WORK</u>

Tank Owner:

Contractor:

M.V.S. Representative:

Date: 5/22 /2020

Notes:

DBE # D4M1302341

EPA # WAD980974521

Marine Vacuum Service, Inc. PO. Box 24263 Seattle, Washington 98124

P0. Box 24263 Seattle, Washington 98124 Telephone (206) 762-0240 FAX (206) 763-8084 1-800-540-7491

GENERAL CONTRACTOR CONTRACTORS LICENSE # MARINVS097JA

TANK DISPOSAL CERTIFICATE

DATE: September 25, 2020

CUSTOMER: Elk Heights Excavation OWNER:

631Quen Ann Ave. N Seattle WA

Tank Size: Two Approximately 500 gallons

Last product: Heating Oil

DATE DESTRUCTED: 6/3/20

Marine Vacuum Service Inc. certifies that the above-mentioned tank has been cleaned and disposed of by metal reclaiming in accordance with federal, state and local regulations by Marine Vacuum Service Inc.

Marine Vacuum Service Inc. Representative

Tom Myler Project Manager

DBE # D4M1302341

EPA # WAD980974521

Marine Vacuum Service, Inc. PO. Box 24263 Seattle, Washington 98124

P0. Box 24263 Seattle, Washington 98124 Telephone (206) 762-0240 FAX (206) 763-8084 1-800-540-7491

GENERAL CONTRACTOR CONTRACTORS LICENSE # MARINVS097JA

TANK DISPOSAL CERTIFICATE

DATE: September 25, 2020

CUSTOMER: Elk Heights Excavation OWNER:

631Quen Ann Ave. N Seattle WA

Tank Size: Two Approximately 500 gallons

Last product: Heating Oil

DATE DESTRUCTED: 6/3/20

Marine Vacuum Service Inc. certifies that the above-mentioned tank has been cleaned and disposed of by metal reclaiming in accordance with federal, state and local regulations by Marine Vacuum Service Inc.

Marine Vacuum Service Inc. Representative

Tom Myler Project Manager

DBE # D4M1302341

EPA # WAD980974521

Marine Vacuum Service, Inc.

GENERAL CONTRACTOR CONTRACTORS LICENSE # MARINVS097JA P0. Box 24263 Seattle, Washington 98124 Telephone (206) 762-0240 FAX (206) 763-8084 1-800-540-7491

STORAGE TANK

CERTIFICATE OF DESTRUCTION

DATE: 06/08/2020

TANK OWNER: S TOLLER LLC

TANK LOCATION: 631 QUEEN ANNE AVE N SEATTLE, WA 98109

TANK DESCRIPTION: 3000 GALLON UST

LAST CONTENTS HELD IN TANKS: HYDRO CARBON.

Marine Vacuum Service, Inc certifies that the tank mentioned above was pumped of all liquid materials and washed clean with a high-pressure washer and soap solution. The tank and contents therein have been disposed of according to all Local, State and Federal Regulations.

Thank you, or le

Marine Vacuum Service, Inc.

DBE # D4M0002341

SDVO

EPA # WAD980974521

MARINE VACUUM SERVICE, INC.

P.O. BOX 24263 SEATTLE, WA 98124

Email: AR@MARINEVACUUM.COM

Phone # 206-762-0240 (main) 206-745-3667 Fax # 206-763-8084

Bill To

ELK HEIGHTS EXCAVATION 22710 SE LAKE FRANCIS RD MAPLE VALLEY, WA 98038

	5/5/2020	70097
Job Descrip	otion / Site addres	5

Date

DISPOSAL @ MARVAC BOL # 31115

		P.O. No.	Terms
U/M	Description	Rate	Amount
EA	5/5/2020****** DISPOSAL @ MARVAC DISPOSE OF CONTAMINATED SCRAP METAL	454.00	0.0
	+ truceing		
6/4/2020	Please remit payment for this invoice by the Due Date. An initial \$25.00 late fee (on each invoice) and a finance charge of 1.5% monthly or 18% annually will be assessed for all late payments. Customer assumes all late charges and reasonable cost of	Subtotal Sales Tax (0.0%) Payments/Credits	\$454.0 \$0.0 \$0.0
	EA	EA 5/5/2020***** DISPOSAL @ MARVAC DISPOSE OF CONTAMINATED SCRAP METAL 4 tructing Please remit payment for this invoice by the Due Date. An initial \$25.00 late fee (on each invoice) and a finance charge of 1.5% monthly or 18% annually will be assessed for all late payments.	5/5/2020***** DISPOSAL @ MARVAC EA DISPOSE OF CONTAMINATED SCRAP METAL 4 trucking 4 trucking Sease remit payment for this invoice by the Due Date. An initial \$25.00 late fee (on each invoice) and a finance charge of 1.5% monthly or 18% annually will be assessed for all late payments. 6/4/2020

INVOICE

Invoice #

16dr	CUSTOME	R Pavillion Construction
Elk Heights	_{No.} 12549	Roystone Apts
EXCAVATION, LLC	5-13-20 Well	Product piping hundling

22710 SE Lake Francis Rd • Maple Valley, WA 98038 • Office 425-432-5040 • Fax 425-432-5162 • ELKHEHE891JL • office@elkheightsexcavation.com

QUANTITY	DESCRIPTION	PRICE	AMOUNT
lhr	320 Excavator	\$170.0%	\$170.00
Ihr	Foreman	\$65.00	\$65.00
Zhrs	Pump Truck Solo (Price TI3D)	\$125-	#250=
	Marvac Dump Fee (Price TBD		
	Load product piping into Solo		
	truck per geotech requests.		
	Export Solo to Marlac		
		Totel	
SIGNATURE OF BUYER ROGEN WORS			
Signature of this invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1.5% per month will be charged on all past due accounts. Charging due by the tenth of the month following date of this billing.			



Invoice

PROJECT

Date	Invoice #
7/9/2020	3843

Pavilion Construction NW, LLC 15455 SW Hallmark Drive, STE 200 Lake Oswego, OR 97035

Bill To

		ROYSTONE A	PARTMENTS
Quantity	Description	Rate	Amount
	T/M PAVILION CONSTRUCTION - Roystone Apartments C/O request		
	UST Pipe Removal		
1.25	6-29-20 Mon Inv 12695 Solo 1.25hrs	125.00	156.25
1	10% Markup: Labor / Equipment	15.63	15.63
1	MarVac Onsite	454.00	454.00
1	15% Markup: SubTier Work	68.10	68.10
4.5	6-16-20 Tues STAND-BY-TIME 4.5hrs	145.00	652.50
1	15% Markup: SubTier Work	97.88	97.88
	SUB TOTAL		1,444.36
		0.00%	0.00
	Terms Net 30 days. We appreciate your business.	Total	\$1,444.36

22710 SE Lake Francis Rd. Maple Valley, WA 98038 P: 425.432.5040 F: 425.432.5162 office@elkheightsexcavation.com

All March	CUSTOMER	Paurtion
Elk Heights	No. 12695	UST Pipe Remard, MAY Val
EXCAVATION, LLC	<u>6-29-20</u> DATE	USE

22710 SE Lake Francis Rd • Maple Valley, WA 98038 • Office 425-432-5040 • Fax 425-432-5162 • ELKHEHE891JL • office@elkheightsexcavation.com

QUANTITY	DESCRIPTION	PRICE	AMOUNT
Hoor	320 Execution	\$170.00	\$170.00
1,25H	Solo Load of Expert Pipe on site	\$12500	\$156.25
	Disposale Per MarVac MarVac invoice 70504	#454	
	worked on Loading Pipe's From Fuel		
SIGNATURE(Signature o	OF BUYER A A A A A A A A A A A A A A A A A A A	r month will be charged on a	Ill past due accounts.

APPENDIX D

UST SITE ASSESSMENT PHOTOGRAPHS





Photograph 1: View of the removal of 1,066-gallon diesel UST4A situated on the west-central portion of the Property. No evidence of holes or a release were encountered.



Photograph 2: View of the removal of 317-gallon waste oil USTA situated on the central portion of the Property. Holes were observed in UST and a release of gasoline- and oil-range TPH and benzene occurred at this location.



Corporate Office		ystone Redevelopment	Figure D-1	
17522 Bothell Way Northeast Bothell, Washington 98011 Phone: 425.415.0551	RGI Project Number 2017-015K	UST Site Assessment Photographs	6	Date Drawn: 10/2020
Fax: 425.415.0311	Address: 631	dress: 631 Queen Anne Avenue North, Seattle, Washington 98109		



Photograph 3: View of the approximately 0.5-inch hole located on the top east side of USTA.



Photograph 4: View of the approximately 3 millimeter hole located on the bottom east side of USTA.



	Corporate Office	Ro	ystone Redevelopment	Figure D-2	
	Bothell, Washington 98011	RGI Project Number 2017-015K	UST Site Assessment Photographs	S	Date Drawn: 10/2020
OUP	Fax: 425.415.0311	Address: 631 Queen Anne Avenue North, Seattle, Washington 98109			on 98109



Photograph 5: View of a large hole on the top of UST6B where the UST was likely cut prior to filling the UST with CDF.



Photograph 6: View of the removal of 3,455-gallon UST6B, which appeared to have been previously decommissioned. An approximately 10-inch hole was observed on the bottom of UST6B. This is likely where the UST was cut for the purpose of collecting a soil sample prior to filling the UST with CDF. However, no records pertaining to previous work at UST6B were found. A release of gasoline-range TPH likely occurred in this location prior to the UST being filled with CDF.



	Corporate Office	Ro	ystone Redevelopment	Fi	igure D-3
	Bothell, Washington 98011	RGI Project Number 2017-015K	UST Site Assessment Photograph	5	Date Drawn: 10/2020
OUP	Phone: 425.415.0551 Fax: 425.415.0311	Address: 631 Queen Anne Avenue North, Seattle, Washington 98109			on 98109



Photograph 7: View of CDF being excavated from inside UST6B.



Photograph 8: View of suspected product piping encountered on the east-central portion of the Property near former boring DP3. It was not confirmed which UST this pipe belonged to.



	Corporate Office	Ro	ystone Redevelopment	Fi	igure D-4
	Bothell, Washington 98011	RGI Project Number 2017-015K	UST Site Assessment Photographs	6	Date Drawn: 10/2020
OUP	Phone: 425.415.0551 Fax: 425.415.0311	Address: 631 Queen Anne Avenue North, Seattle, Washington 98109			on 98109



Photograph 9: View of a former pump island and associated product pipe situated on the east-central portion of the Property, which may have been associated with UST6B.



Photograph 10: View of suspected product pipe located on the north-central portion of the Property near former well MW9. The pipe was originally oriented north-northeast south-southwest and was moved by the excavator prior to the photograph. It was not confirmed which UST this pipe belonged to.



	Corporate Office	Ro	ystone Redevelopment	Figure D-5	
	Bothell, Washington 98011	RGI Project Number 2017-015K	UST Site Assessment Photographs	5	Date Drawn: 10/2020
OUP	Phone: 425.415.0551 Fax: 425.415.0311	Address: 631 Queen Anne Avenue North, Seattle, Washington 98109			on 98109



Photograph 11: View of suspected product pipe situated on the southwest portion of the Property, which may have been associated with former UST4.

				1
				E
RIL	EYC	iRO	UP	F

	Corporate Office		ystone Redevelopment	Fi	igure D-6
	17522 Bothell Way Northeast Bothell, Washington 98011	RGI Project Number 2017-015K	UST Site Assessment Photograph	s	Date Drawn: 10/2020
JP	Phone: 425.415.0551 Fax: 425.415.0311	Address: 631	31 Queen Anne Avenue North, Seattle, Washington 98109		

APPENDIX E

UST SITE ASSESSMENT CHECKLIST



UST ID #: ___



SITE CHECK/SITE ASSESSMENT CHECKLIST FOR UNDERGROUND STORAGE TANKS

County: King

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

	l.	UST FACILITY	II. OWNER/OPER/	ator Informat	ΓΙΟΝ
Facili	ty Compliance Tag #:		Owner/Operator Name: Mr. Pu	ıi Leung	
USTI	D #: UST4A		Business Name: Roystone on Q	ueen Anne, LLC	
Site N	Name: Roystone Rede	evelopment	Address: 606 Maynard Avenue	South #251	
Site A	Address: 631 Queen A	Anne Avenue North	City: Seattle	State: WA	Zip: 98104
City:	Seattle, Washington	98109	Phone: 206-659-5750		
Phon	e:		Email: pleung@vibrantcities.co	m	
		III. CERTIFIED	SITE ASSESSOR		
Servi	ce Provider Name: Er	ric Dunham	Company Name: The Riley Grou	up, Inc.	
Cell F 0551	Phone: 425-415-	Email: Edunham@riley-group.com	Address: 17522 Bothell Way No	ortheast	
Certif	fication #: 9261523	Exp. Date: 07/24/2020	City: Bothell	State: WA	Zip: 98011
		IV. TANK IN	IFORMATION		
	ΤΑΝΚ ΙΟ	ΤΑΝΚ CAPACITY	LAST SUBSTANCE STORED		COR ASSESSMENT
	UST4A	1066 gallons	Diesel	06/01/2020	
				_	
		V. REASON FOR CONDUCTING SITE	CHECK/SITE ASSESSMENT (che	ck one)	
Х	Release investigation	n following permanent UST system closu	ıre (i.e. tank removal or closure-in	i-place).	
	Release investigation	n following a failed tank and/or line tight	tness test.		
	Release investigation	n following discovery of contaminated so	oil and/or groundwater.		
	Release investigation	n directed by Ecology to determine if the	UST system is the source of offsi	te impacts.	
	UST system is undergoing a "change-in-service", which is changing from storing a regulated substance (e.g. gasoline) to storing a non-regulated substance (e.g. water).				
	Directed by Ecology	for UST system permanently closed or a	bandoned 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. (See Figure 1)			
2.	A brief summary of information obtained during the site inspection is provided (Section 5.4.1)			
3.	A summary of UST system data is provided (Section 5.2.4)			
4.	The soils characteristics at the UST site are described. (Section 5.2.4.2)			
5.	Is there any apparent groundwater in the tank excavation?		\boxtimes	
6.	A brief description of the surrounding land use is provided. (see Figure 2)			
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. (See Appendix B)	\boxtimes		
8.	The following items are provided in one or more sketches: (see Figures 1-3)			
	Location and ID number for all field samples collected (See Figure 3)	\boxtimes		
	If applicable, groundwater samples are distinguished from soil samples (Not Applicable)			
	Location of samples collected from stockpiled excavated soil (See forthcoming Interim Action Report)			
	Tank and piping locations and limits of excavation pit (See Figure 3)			
	Adjacent structures and streets (See Figure 2)	\boxtimes		
	 Approximate locations of any on-site and nearby utilities (Not applicable. The Property was under redevelopment and no utilities were present in UST locations) 			
9.	If sampling procedures are different from those specified in the guidance, has justification for using these alternative sampling procedures been provided? (Not Applicable)			
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. (See Table 1)			
11	. Any factors that may have compromised the quality of the data or validity of the results are described. Not Applicable			
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.		\boxtimes	
VII. REQUIRED SIGNATURES				
Signature acknowledges the Site Check or Site Assessment complies with UST regulations WAC 173-360A-0730 through 0750.				
Eric	Dunham & Q/25/2020)		
Prir	nt 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. <u>This form is required to be filled out whether or not contamination is found</u>. 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

UST ID #: ___



SITE CHECK/SITE ASSESSMENT CHECKLIST FOR UNDERGROUND STORAGE TANKS

County: King

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

	l.	UST FACILITY	II. OWNER/OPER/	ATOR INFORMAT	ΓΙΟΝ
Facility Compliance Tag #:			Owner/Operator Name: Mr. Pui Leung		
UST ID #: UST6B			Business Name: Roystone on Q	ueen Anne, LLC	
Site	Name: Roystone Red	evelopment	Address: 606 Maynard Avenue	South #251	
Site	Address: 631 Queen /	Anne Avenue North	City: Seattle	State: WA	Zip: 98104
City:	Seattle, Washington	98109	Phone: 206-659-5750		
Phor	1e:		Email: pleung@vibrantcities.co	m	
		III. CERTIFIED	SITE ASSESSOR		
Serv	ice Provider Name: Ei	ric Dunham	Company Name: The Riley Group, Inc.		
Cell 055	Phone: 425-415- 1	Email: Edunham@riley-group.com	Address: 17522 Bothell Way Northeast		
Certi	ification #: 9261523	Exp. Date: 07/24/2020	City: Bothell	State: WA	Zip: 98011
		IV. TANK IN	FORMATION		
	TANK ID	ΤΑΝΚ CAPACITY	LAST SUBSTANCE STORED		k or Assessment Ducted
	UST6B	3455 gallons	Gasoline	06/08	3/2020
		V. REASON FOR CONDUCTING SITE	CHECK/SITE ASSESSMENT (che	ck one)	
Х	Release investigation	n following permanent UST system closu	ıre (i.e. tank removal or closure-in	ı-place).	
	Release investigation following a failed tank and/or line tightness test.				
	Release investigation following discovery of contaminated soil and/or groundwater.				
	Release investigation directed by Ecology to determine if the UST system is the source of offsite impacts.				
	UST system is undergoing a "change-in-service", which is changing from storing a regulated substance (e.g. gasoline) to storing a non-regulated substance (e.g. water).				
	Directed by Ecology for UST system permanently closed 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.			
<u> </u>		YES	NO	
1.	The location of the UST site is shown on a vicinity map. (See Figure 1)			
2.	A brief summary of information obtained during the site inspection is provided (Section 5.4.1)			
3.	A summary of UST system data is provided (Section 5.2.4)			
4.	The soils characteristics at the UST site are described. (Section 5.2.4.2)			
5.	Is there any apparent groundwater in the tank excavation?		\square	
6.	A brief description of the surrounding land use is provided. (see Figure 2)			
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. (See Appendix B)			
8.	The following items are provided in one or more sketches: (see Figures 1-3)			
	Location and ID number for all field samples collected (See Figure 3)	\boxtimes		
	If applicable, groundwater samples are distinguished from soil samples (Not Applicable)			
	• Location of samples collected from stockpiled excavated soil (See forthcoming Interim Action Report)			
	• Tank and piping locations and limits of excavation pit (See Figure 3)	\boxtimes		
	Adjacent structures and streets (See Figure 2)			
	• Approximate locations of any on-site and nearby utilities (Not applicable. The Property was under redevelopment and no utilities were present in UST locations)			
9.	If sampling procedures are different from those specified in the guidance, has justification for using these alternative sampling procedures been provided? Not Applicable			
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. (See Table 1)			
11.	. Any factors that may have compromised the quality of the data or validity of the results are described. (Not Applicable)			
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. (It appeared that this UST had previously been abandoned in place prior to the assessment. The release likely occurred prior to the UST being abandoned.)			
VII. REQUIRED SIGNATURES				
Signature acknowledges the Site Check or Site Assessment complies with UST regulations WAC 173-360A-0730 through 0750.				
Eric	Dunham & 22/2 9/25/2020)		
Prir	at 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. <u>This form is required to be filled out whether or not contamination is found</u>. 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

UST ID #: ____



SITE CHECK/SITE ASSESSMENT CHECKLIST FOR UNDERGROUND STORAGE TANKS

County: King

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

	I. U	ST FACILITY	II. OWNER/OPERA	ATOR INFORMAT	TION
Facility Compliance Tag #:			Owner/Operator Name: Mr. Pui Leung		
UST ID #: USTA			Business Name: Roystone on Queen Anne, LLC		
Site N	Name: Roystone Redev	elopment	Address: 606 Maynard Avenue	South #251	
Site A	Address: 631 Queen An	ne Avenue North	City: Seattle	State: WA	Zip: 98104
City:	Seattle, Washington 98	3109	Phone: 206-659-5750		
Phon	e:		Email: pleung@vibrantcities.co	m	
		III. CERTIFIED	SITE ASSESSOR		
Servi	ce Provider Name: Eric	Dunham	Company Name: The Riley Grou	.p, Inc.	
Cell P 0551	Phone: 425-415-	Email: Edunham@riley-group.com	Address: 17522 Bothell Way Northeast		
Certif	fication #: 9261523	Exp. Date: 07/24/2020	City: Bothell	State: WA	Zip: 98011
		IV. TANK IN	IFORMATION		
	ΤΑΝΚ ΙD	ΤΑΝΚ CAPACITY	LAST SUBSTANCE STORED		k or Assessment Ducted
	USTA	317 gallons	Gasoline	06/01	1/2020
	V	REASON FOR CONDUCTING SITE	CHECK/SITE ASSESSMENT (che	ck one)	
Х	Release investigation f	ollowing permanent UST system closu	re (i.e. tank removal or closure-in	-place).	
	Release investigation following a failed tank and/or line tightness test.				
	Release investigation following discovery of contaminated soil and/or groundwater.				
	Release investigation directed by Ecology to determine if the UST system is the source of offsite impacts.				
	UST system is undergoing a "change-in-service", which is changing from storing a regulated substance (e.g. gasoline) to storing a non-regulated substance (e.g. water).				
	Directed by Ecology for UST system permanently closed 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.	VEC			
1. The location of the UST site is shown on a vicinity map. (See Figure 1)	YES			
2. A brief summary of information obtained during the site inspection is provided (Section 5.4.1)				
3. A summary of UST system data is provided (Section 5.2.4)				
4. The soils characteristics at the UST site are described. (Section 5.2.4.2)				
5. Is there any apparent groundwater in the tank excavation?				
6. A brief description of the surrounding land use is provided. (see Figure 2)				
 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. (See Appendix B) 				
8. The following items are provided in one or more sketches: (see Figures 1-3)				
 Location and ID number for all field samples collected (See Figure 3) 	\boxtimes			
If applicable, groundwater samples are distinguished from soil samples (Not Applicable)				
Location of samples collected from stockpiled excavated soil (See forthcoming Interim Action Report)				
• Tank and piping locations and limits of excavation pit (See Figure 3)				
Adjacent structures and streets (See Figure 2)				
 Approximate locations of any on-site and nearby utilities (Not applicable. The Property was under redevelopment and no utilities were present in UST locations) 				
9. If sampling procedures are different from those specified in the guidance, has justification for using these alternative sampling procedures been provided? Not Applicable				
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. (See Table 1)				
11. Any factors that may have compromised the quality of the data or validity of the results are described. (Not Applicable)				
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.				
VII. REQUIRED SIGNATURES				
Signature acknowledges the Site Check or Site Assessment complies with UST regulations WAC 173-360A-0730 through 0750.				
Eric Dunham & 22/2020				
Print or Type Name Signature of Certified Site Assessor Date				

SITE CHECK/SITE ASSESSMENT CHECKLIST FOR UNDERGROUND STORAGE TANKS

INSTRUCTIONS

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