

UNDERGROUND STORAGE TANK REMOVAL AND SITE ASSESSMENT REPORT

5400 Airport Way South

Seattle, Washington

Prepared for:

Kelly-Moore Paint Company San Carlos, California

Prepared by:

Amec Foster Wheeler Environment & Infrastructure, Inc. 600 University Street, Suite 600 Seattle, Washington 98101 (206) 342-1760

May 2015

Project No. 0146970060



TABLE OF CONTENTS

Page

1.0	INTRODUCTION	1 1
2.0	UST DECOMMISSIONING AND CLOSURE METHODS 2.1 DISCOVERY AND NOTIFICATIONS 2.2 UST CLOSURE METHODS	3
3.0	SOIL EXCAVATION, SAMPLING, AND BACKFILLING. 3.1 UST Excavation and Confirmation Soil Sampling. 3.2 Soil Treatment	5 6 6
4.0	CONCLUSIONS AND RECOMMENDATIONS	7
5.0	REFERENCES	9

TABLES

Table 1Soil Sampling Results

FIGURES

- Figure 1 Site Location Map
- Figure 2 Site Map
- Figure 3 UST Excavation Area and Soil Sample Locations

APPENDICES

- Appendix A Waiver of 30-day Notice Requirement
- Appendix B Tank Liquids and Rinsate Water Disposal Record
- Appendix C Seattle Fire Department UST Decommissioning Permit
- Appendix D UST Pump and Rinse Certificate
- Appendix E Marine Chemist Tank Testing Certificate
- Appendix F Tank Destruction Record
- Appendix G Selected Site Photographs
- Appendix H Laboratory Analytical Results
- Appendix I Soil Disposal Tickets
- Appendix J Site Assessment Checklist



TABLE OF CONTENTS (Continued)

This page intentionally left blank.



UNDERGROUND STORAGE TANK REMOVAL AND SITE ASSESSMENT REPORT 5400 Airport Way South Seattle, Washington

1.0 INTRODUCTION

This underground storage tank (UST) removal and site assessment report summarizes the discovery and decommissioning of a UST at the New Core Development Georgetown LLC (New Core) property (site), located at 5400 Airport Way in Seattle, Washington (Figure 1). The UST was discovered on March 5, 2015, during excavation work associated with an interim action soil cleanup at the site. The UST was a single walled steel tank with a capacity of approximately 500 gallons. Figures 2 and 3 show the site features, including the location of the UST prior to removal and the approximate extent of the tank excavation and subsequent soil removal.

The UST was removed by IO Environmental and Infrastructure, Inc. (IO), of Bellevue, Washington on March 11, 2015. Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler) oversaw the removal of the UST and performed the UST decommissioning site assessment.

1.1 PURPOSE OF THIS REPORT

Amec Foster Wheeler provided oversight of the removal activities and collected soil samples as part of a site assessment as required under the Washington State Department of Ecology (Ecology) requirements per Washington Administrative Code (WAC) 173-360-390. The purpose of this report is to document the activities associated with UST removal, confirmation soil sampling, and site assessment as required by Ecology regulations.

1.2 PHYSICAL SETTING

The site is located northeast of the intersection of South Lucile Street and Airport Way South, in the Georgetown neighborhood of Seattle, Washington (Figure 1). The property is bordered on the north and east by BNSF Railway Company tracks, on the west by Airport Way South and the Airport Way South overpass, and on the south by a brewery.

1.3 BACKGROUND

The site has served a variety of industrial uses since the early 1900s. The site was previously owned by Kelly-Moore Paint Company (Kelly-Moore) who used it as a paint manufacturing facility.



Kelly-Moore discontinued paint production activities at the site in 2008, and sold the property to New Core Development in 2014. Kelly-Moore retained environmental liability for the site, and the site is currently enrolled in Ecology's Voluntary Cleanup Program (VCP) to remediate the site (VCP number NW2305). Available records indicate that at least 33 USTs have been removed from the site since the mid-1980s (AMEC Geomatrix, 2009 and 2011). Soil and groundwater contamination have been documented across the site from historical releases from USTs and associated piping, and other past industrial uses of the property.

This report fulfills reporting requirements for the site assessment associated with the discovery and decommissioning of the UST, but is only a small part of the overall interim action cleanup activities conducted in March of 2015. A Cleanup Action Plan (CAP) will be issued separately summarizing the interim action cleanup activities as part of the CAP, and a copy will be provided to Ecology.



2.0 UST DECOMMISSIONING AND CLOSURE METHODS

This section of the report describes the UST decommissioning and closure methods used at the site.

2.1 DISCOVERY AND NOTIFICATIONS

Prior to the discovery of the UST, soil samples collected from a soil excavation in March of 2015, near where the UST was discovered, contained total petroleum hydrocarbon (TPH) concentrations as high as 14,000 milligrams per kilogram (mg/kg) in the diesel range (TPH-D) and 3,000 mg/kg in the gasoline range (TPH-G). Due to the elevated TPH concentrations in soil, the excavation was expanded. It was during this second phase of soil excavation that the UST was discovered.

The UST was discovered on March 5, 2015. Ecology UST staff were immediately notified via telephone. On the same day, additional information was sent to Mr. Andrew Imke of Ecology regarding property and UST ownership, including details on the construction and capacity of the tank and the Site Assessor and UST Decommissioning license numbers of the Amec Foster Wheeler field supervisor. Due to the unplanned nature of the UST discovery, Mr. Imke granted a waiver of the 30-day waiting period normally required prior to decommissioning a UST. A copy of the waiver of the 30-day notice requirements is included in Appendix A.

The UST was located approximately 5 feet east of a series of underground pipes that were awaiting removal, along with associated petroleum contaminated soil. These pipes were left in place following the decommissioning of nine USTs in 2009 (AMEC Geomatrix, 2010). The pipes could not be removed completely at that time because they ran beneath a building. That building was demolished in February 2015, allowing for the remaining piping and associated contaminated soil to be removed (Figure 2). Because the UST was covered by two separate concrete slabs, the tank is assumed to predate the buildings constructed above it. There was no piping connected to the UST or in the immediate vicinity. Soil surrounding the tank is a sandy fill material.

Because the tank was hit inadvertently with a large excavator, the tank was dislodged and was partially damaged. Upon inspection, a small quantity of fluid was visible through a hole ripped in the top of the tank, and several small pin-holes were visible through the rusted metal tank walls. The fluid in the tank appeared to be rusty water, and some of it was observed leaking through the pin holes in the lower portion of the tank walls. To prevent further releases from the tank, the tank was carefully moved with an excavator and placed onto a visqueen liner in a shallow containment berm. Later in the day on March 5, the contents of the tank and the visqueen containment berm were pumped out by Ingenium, a waste disposal company based in Kent, Washington. The tank liquids were pumped into a 55-gallon drum, which was labeled and left on site for later removal.



2.2 UST CLOSURE METHODS

IO was contracted to permanently remove the UST. IO obtained a tank decommissioning permit from the Seattle Fire Department (Appendix C), and mobilized to the site on March 11, 2015 under Amec Foster Wheeler supervision. The tank was triple rinsed by Marine Vacuum Services, Inc., and certified safe for excavation, transport, and demolition by Northwest Marine Chemist, Inc. A copy of the pump and rinse certificate is included in Appendix D, and a copy of the Marine Chemist Certification is included in Appendix E.

Once the tank was rinsed and certified safe for removal, the Seattle Fire Department signed off on the removal permit and the tank was loaded onto a truck for transport to a recycling facility. A copy of the tank destruction record is included in Appendix F.

Ingenium removed and disposed of the tank liquids and rinsate water from the site on April 27. Copies of the disposal records are included in Appendix B.

Selected site photographs are included in Appendix G.

4



3.0 SOIL EXCAVATION, SAMPLING, AND BACKFILLING

The following sections describe soil excavation and sampling activities in the area of the UST.

3.1 UST EXCAVATION AND CONFIRMATION SOIL SAMPLING

Shortly after discovering the UST, and after it was moved onto a visqueen liner, soil sample Tank-soil-B1 was taken directly beneath the tank for characterization purposes. This sample was analyzed for TPH-D, TPH-G, benzene, toluene, ethylbenzene, and xylenes, semi-volatile organic compounds, polychlorinated biphenyls, and total Resource Conservation and Recovery Act (RCRA) list of eight metals. A follow-up sample, Tank-soil-B1B, was analyzed for volatile organic compounds. Results indicate the samples contained TPH-G, TPH-D, benzene, naphthalene, and benzo[a]pyrene are above proposed cleanup levels for the site (AMEC Geomatrix, 2011). TPH-G and TPH-D were detected at 4,400 and 2,100 mg/kg, respectively. It is unknown whether the source of the contamination was from the UST or from the former piping, or some other unknown source. Other constituents analyzed were either not detected at the laboratory reporting limit, or were detected at concentrations below cleanup levels established for the site. Results of samples collected from the vicinity of the UST are summarized in Table 1. Laboratory reports are included in Appendix H.

Once the UST was removed, the excavation was expanded to an area measuring approximately 15 feet wide by 90 feet long. The depth extended to the water table, which was approximately 5 feet below ground surface. In total, 373 tons of soil were excavated from the area around the UST and disposed of at the Republic Services landfill in Roosevelt, Washington. Copies of the disposal tickets are included in Appendix I. Confirmation samples were collected from the excavation bottom and sidewalls once the excavation was complete (Figure 3). The general naming scheme for the samples begins with a prefix, such as "B7-piping," to indicate the samples were collected from the former Building 7 piping trench area. Next the samples were identified with either a "B" representing a bottom sample, or "S" representing a sidewall sample, and the number of each type of sample. Lastly, each sample was also identified by its depth in feet below ground surface. Thus, sample 'B7-piping-B1-5.0' was the first bottom sample collected in the former Building 7 piping trench area from a depth of 5.0 feet bgs. Soils from two sample locations (tank-soil-B1/B1B and B7-piping-S1-4.0) were subsequently excavated and new bottom and sidewall samples were collected.

Three bottom samples—B7-piping-B1-5.0, B7-piping-B2-5.0, and B7-piping-B5-5.0—and two sidewall samples—B7-piping-S1B-4.0, and B7-piping-S2-4.0—were collected in the vicinity of the former UST, and are representative of soil left in place. All five samples exceed the site cleanup levels for TPH-G, TPH-D, benzene, and benzo[a]pyrene. Sample B7-piping-B5-5.0 also exceeded the cleanup level for ethylbenzene.



3.2 SOIL TREATMENT

In situ chemical oxidation and oxygen releasing compounds were mixed with soil in the piping trench excavation prior to backfill. Descriptions of the oxidant mixing procedures will be described in more detail in the CAP, expected to be finalized in June of 2015.

3.3 BACKFILLING

The excavation was backfilled by New Core Development on March 27, 2015 with imported fill soil consisting primarily of a fine to medium grained sand with trace gravel.

3.4 SITE ASSESSMENT CHECKLIST

Amec Foster Wheeler completed a site assessment checklist, as required by Ecology. The forms are included in Appendix J.



4.0 CONCLUSIONS AND RECOMMENDATIONS

This report documents the removal of a single UST with a capacity of approximately 500 gallons from the New Core Development property (former Kelly-Moore property) at 5400 Airport Way South in Seattle, Washington. The work was conducted in compliance with WAC 173-360-385 and 173-360-390. The tank was discovered during excavation work as part of an interim action to remove petroleum contaminated soil. Previous contents of the UST are unknown. The UST removal and confirmation soil sampling can be summarized as follows:

- One approximately 500-gallon UST was removed from the site on March 11, 2015.
- Petroleum-contaminated soil was present in the area around the UST; however, it is unknown whether the source of contamination was from the UST or nearby product piping, or some other source.
- In total, 311 tons of soil were excavated from the area around the UST and disposed of at the Roosevelt Landfill in Roosevelt, Washington.
- Five confirmation soil samples collected from the excavation in the vicinity of the former UST exceeded cleanup levels established for the site for TPH-D, TPH-G, benzene, and benzo[a]pyrene.
- Groundwater was present in the excavation, but was not sampled.

Contamination at the site is already well documented, and the potential contribution from the UST is unknown, but likely to be minimal in comparison with sampling results from other areas of the site. Remediation at the site is ongoing and the site is already part of Ecology's VCP program (VCP number NW2305).



This page intentionally left blank.



5.0 REFERENCES

- AMEC Geomatrix, Inc. (AMEC Geomatrix). 2009. Limited Phase II Environmental Site Assessment Report, Former Kelly-Moore Manufacturing Facility, Seattle, Washington, November.
- AMEC Geomatrix. 2010. Underground Storage Tank Decommissioning Report, Former Kelly-Moore Manufacturing Facility, Seattle, Washington. February.
- AMEC Geomatrix. 2011. Remedial Investigation and Feasibility Study, Former Kelly-Moore Manufacturing Facility, Seattle, Washington, October.

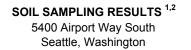


This page intentionally left blank.



TABLES

TABLE 1





All concentrations in milligrams per kilogram (mg/kg).

	Depth			TPH								
Sample Location	(feet bgs)	Sample Date	Diesel	Lube Oil	Gasoline	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Benzo[a]pyrene	Naphthalene
Cleanup Level ³			2,000	2,000	30 ⁴	0.004	4.65	6.05	13.5	322	0.23	4.46
Tank-soil-B1 ⁵	~ 3.5	03/05/15	2,100	1,700	4,400	0.17	0.19	2.5	5.0	1.3 U	11	8.2
Tank-soil-B1B⁵	~ 3.5	03/09/15		-		0.063 U	0.31 U	0.29	1.2	0.17		0.38
B7-Piping-S1-4.0 ⁵	4.0	02/27/15	14,000	6,100	250	0.11	0.17 U	0.17 U	0.64	0.17 U	7.8	
B7-Piping-B1-5.0	5.0	02/27/15	3,300	370	2,600	0.097	0.14 U	0.62	3.8	1.4	0.42	
B7-Piping-B2-5.0	5.0	02/27/15	4,100	710	3,000	0.41	0.098 U	1.2	8.9	4.8	4.6	
B7-Piping-S2-4.0	4.0	02/27/15	7,400	5,600	1,300	0.069	0.095 U	7.4	9.5	1.0	51	
B7-Piping-B5-5.0	5.0	03/13/15	7,800	970 U	1,100	0.13	0.12 U	0.27	1.4	0.12 U	3.7	
B7-Piping-S1B-4.0	4.0	03/13/15	11,000	1,300 U	3,900	0.27	0.12 U	0.27	1.4	0.12 U	0.28	

<u>Notes</u>

1. Data qualifiers are as follows:

U = analyte not detected at or above laboratory reporting limit indicated.

2. Bold values exceed cleanup level.

3. Cleanup levels obtained from Remedial Investigation and Feasibility Study (AMEC Geomatrix, 2011).

4. If benzene is present.

5. Samples with soil that was subsequently removed.

Abbreviations

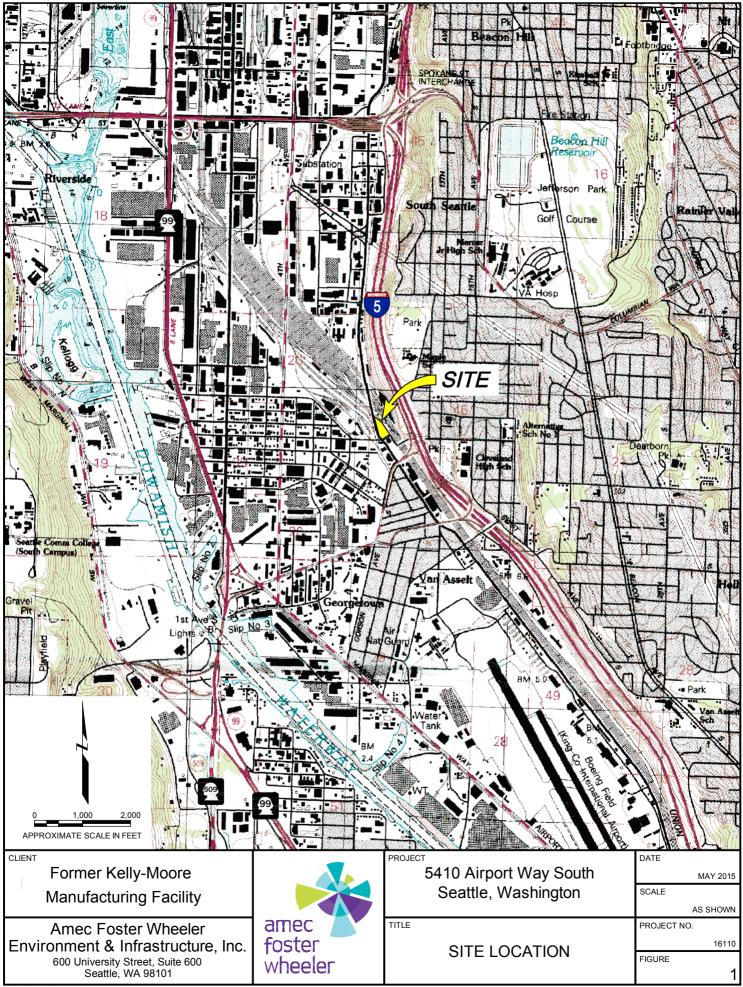
-- = not analyzed/not available

bgs = below ground surface

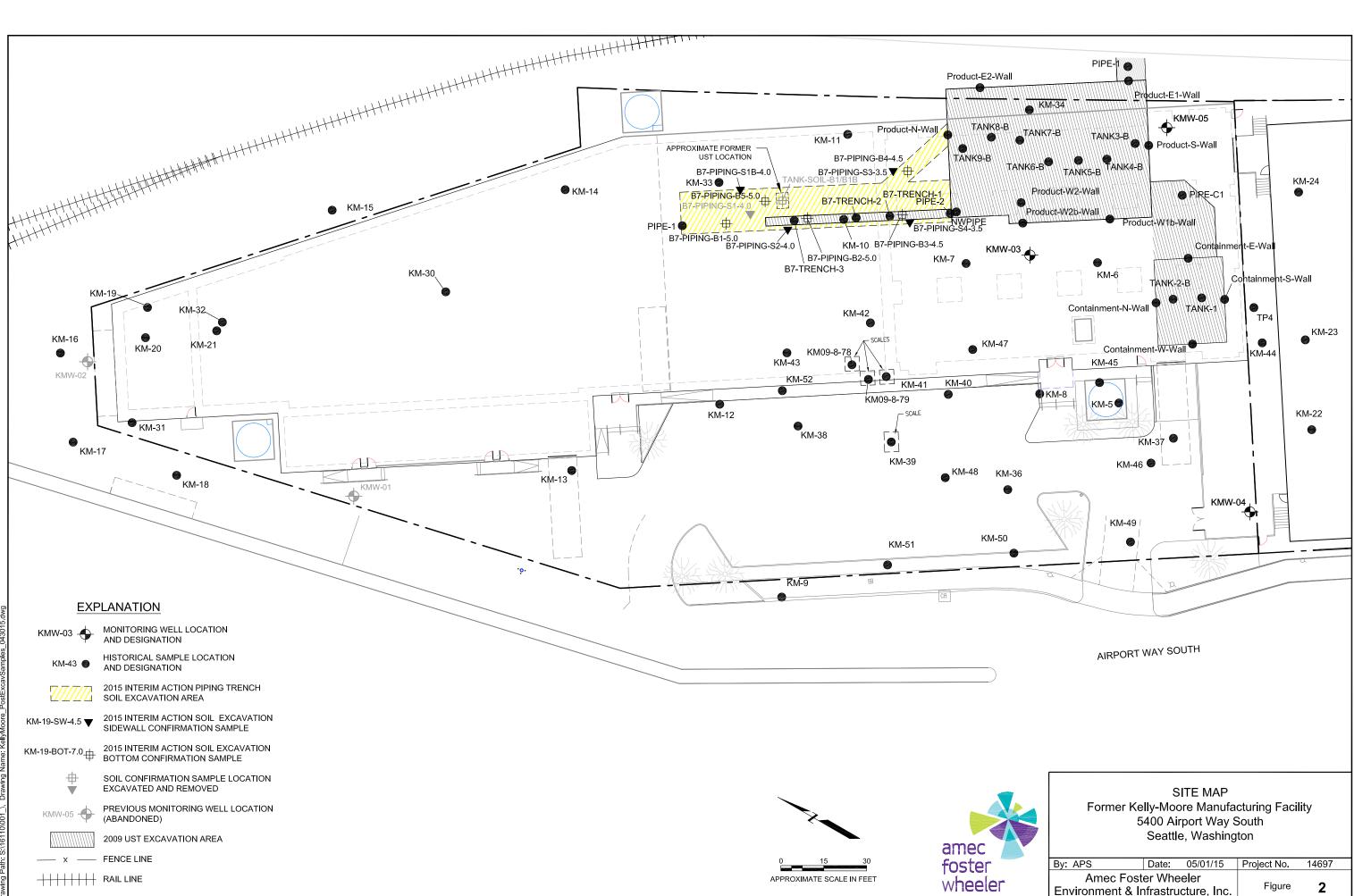
TPH = total petroleum hydrocarbons

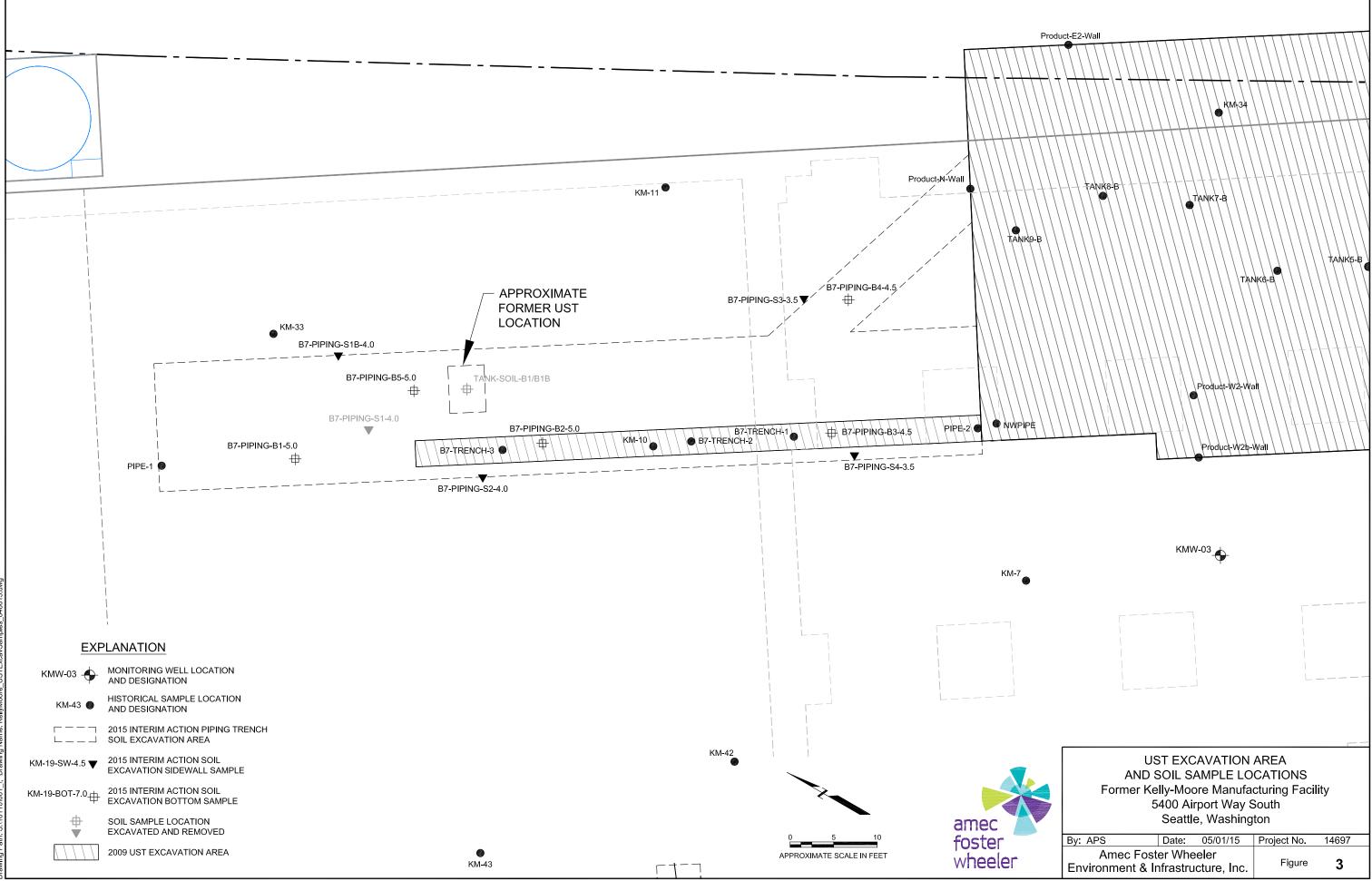


FIGURES



S:\16110\001_\KellyMoore_LocationMap_040614.dwg - Layout1 - May. 14, 2015 12:59pm - adam.sten





by: Plotted 05/01/15 - 12:24pm,



APPENDIX A

Waiver of 30-day Notice Requirement



Request to Waive 30 Day Waiting Period **To be completed by Person Submitting Request**

UST ID # (if known): UNK								
Full Site Address: 5400 Airport Way S								
Owner/ Operator: NCD Ge	orgetown, LLC. Dan Jenkins	-		,				
Contact Phone #: 206-679-8	3568	T						
Waiver Requested for 30 Day Notice to: (Circle one or both) INSTALL								
Person and Company Subm	itting Request: Patrick Hsie	h, PE Amec Foster Whe	eler					
Contact phone #: 206-549-9	0015							
Reason for Submitting Req (Circle all that apply)	uest: ENVIRONMENTA	L HAZARD OTHER	HEALTH HAZAR	D				
Explain Reason: A tank wa	as unexpectedly found to be le	aking an unknown fluid	during excavation onsi	te.				
Date Request Submitted: 03	3/05/15		· · · · ·					
Date and Time of Construc	tion: 03/05/15 10:00 AM							
For all that apply	Name	Contact Phone Number	ICC Certification Number					
INSTALLER								
DECOMMISSIONER	Nathan Moxley	509-332-9281	8198685	1.				
SITE ASSESSOR Northur Moxeley 509332928 ? 8198685 Might								
Completed 30 Day Notice Attached to Waiver Request Form? (Circle one) YES NO								
Department of Ecology Response to Request (to be completed by UST Inspector):								
WAVIER-GRANTED WAIVER DENIED								
Inspector: Andverry	A. Lun Ce Signature	e and Date have	N Jok O	<u>4/05/205</u>				
	O OTIATI TIAVE & CODV	OF 20 DAX MOTIOF	AND A CODY OF TH	C				

DECOMMISSIONER(S) SHALL HAVE A COPY OF 30 DAY NOTICE AND A COPY OF THE WAIVER REQUEST FORM ON SITE DURING ALL DECOMMISSIOING RELATED ACTIONS *

UNDERGROUND STOP	• •	FOR OFFICE USE ONLY Site ID # FS ID #		
DEPARTMENT OF (See back of form fo ECOLOGY State of Washington	r instructions)			
Please ✓ the appropriate box: ☐ Intent to Install	Intent to Close			
HQ (360)407-7170 / Central (509)575-2490 / Eastern (50				
SITE INFORMATION	OWNER INFORMATION (this form will be returned			
Tag or UBI number <u>Kelly Moore Paint</u> Site Name <u>5400 Air port Vay S.</u> Site Physical Address <u>Seaffle WA</u> <u>78108</u> City Zip Code <u>Nathan Moxley</u> <u>509-332-928</u> Site Phone Number	$\frac{1112}{Mailing Address/PO Bo}$ $\frac{Seaff(e, WA)}{City}$ $\frac{206 - 67^{\circ}}{Owner/Operator Phone I}$	x + <u>18178</u> Zip Code F-8558 Number we development.com		
TANK INFORMATION	······································			
	ate Project is ected to Begin	Comments:		
1) SERVICE PROVIDER INFORMATION - check the appropriate box				
PLEASE NOTE: INDIVIDUALS PERFORMING PASSED ANOTHER QUALIFYING EXAM				
Installer Decomnissioner Site Assessor AMEC Foster Wheeler				
Service Provider Company Name Nathan Maxley	Contact Person 509 -332	-9281		
Certified Service Provider Name 9\9\6685 ICC Certification #	Contact Phone Number <u>Nathan</u> , mg Contact Email Address	-9281 xley@amecfw.com		
2) SERVICE PROVIDER INFORMATION (REQUIRED IF USING MO	RE THAN ONE PROVIDER) - check	the appropriate boxes		
Installer Decommissioner Site Assessor				
Service Provider Company Name	Contact Person	· · · · · · · · · · · · · · · · · · ·		
Certified Service Provider Name	Contact Phone Number	Contact Phone Number		
ICC Certification #	Contact Email Address			
ECY 020-95 (Rev. Feb. 2012)				

Imke, Andrew (ECY)

From: Sent: To: Cc: Subject: Attachments: Hsieh, Patrick [patrick.hsieh@amecfw.com] Thursday, March 05, 2015 2:58 PM Imke, Andrew (ECY) Moxley, Nathan; Gray, Natasya UST Notice and Waiver 030515 UST Notice and waiver.pdf

Andrew,

Please see the attached paperwork and call me (info below) if anything else needs to be done. Tasya is not in the office today and Nathan is still onsite with no access to email.

Regards,

Patrick Hsieh, PE | Associate Engineer

Amec Foster Wheeler Environment & Infrastructure | Seattle, Washington 600 University St, Suite 600 | Seattle, WA 98101 206.342.1773 (direct) 206.549.9015 (cell) | 206.342.1760 (Seattle Main) | 206.342.1761 (fax) patrick.hsieh@amecfw.com



This message is the property of Amec Foster Wheeler plc and/or its subsidiaries and/or affiliates and is intended only for the named recipient(s). Its contents (including any attachments) may be confidential, legally privileged or otherwise protected from disclosure by law. Unauthorised use, copying, distribution or disclosure of any of it may be unlawful and is strictly prohibited. We assume no responsibility to persons other than the intended named recipient(s) and do not accept liability for any errors or omissions which are a result of email transmission. If you have received this message in error, please notify us immediately by reply email to the sender and confirm that the original message and any attachments and copies have been destroyed and deleted from your system. This disclaimer applies to any and all messages originating from us and set out above. For Canada and the United States: If you believe this is an unsolicited email and do not wish to receive future commercial electronic messages from us, please click <u>unsubscribe@amecfw.com</u> and include "Unsubscribe" in the subject line.

Please click <u>http://amecfw.com/email-disclaimer</u> for notices and company information in relation to emails originating in the UK, Italy or France.

Moxley, Nathan

From: Sent: To: Subject: Imke, Andrew (ECY) <aimk461@ECY.WA.GOV> Monday, April 06, 2015 11:52 AM Moxley, Nathan RE: Site Assessment Report - 5400 Airport Way S., Seattle

Good morning Nathan,

As we just discussed on the phone, I will extend the deadline for submission of the required regulatory documentation for Decommissioning of the abandon UST systems until May 15, 2015. Please ensure that these documents are submitted as soon as they become available.

Respectfully, Drew

Andrew A. Imke Senior Underground Storage Tank Inspector Dept. of Ecology-NWR0: TCP/UST Work (425) 649-7226 Cell (425) 457-3142 Fax (425) 649-7161 andrew.imke@ecv.wa.gov

From: Moxley, Nathan [mailto:nathan.moxley@amecfw.com]
Sent: Monday, April 06, 2015 10:00 AM
To: Imke, Andrew (ECY)
Cc: Gray, Natasya; May, Logan
Subject: Site Assessment Report - 5400 Airport Way S., Seattle

Andrew,

We are still preparing the Site Assessment report for the New Core Development Site at 5400 Airport Way South in Seattle, and would like approval for an extension to the 30-day reporting requirement. The UST discovered on March 5, 2015 was permanently removed on March 11, 2015, and 30 days would be this Wednesday, April 8, 2015. The UST decommissioning report is but one part of a larger interim action cleanup report being prepared simultaneously. Please let me know about the extension.

Thanks,

Nathan



This message is the property of Amec Foster Wheeler plc and/or its subsidiaries and/or affiliates and is intended only for the named recipient(s). Its contents (including any attachments) may be confidential, legally privileged or otherwise protected from disclosure by law. Unauthorised use, copying, distribution or disclosure of any of it may be unlawful and is strictly prohibited. We assume no responsibility to persons other than the intended named recipient(s) and do not accept liability for any errors or omissions which are a

result of email transmission. If you have received this message in error, please notify us immediately by reply email to the sender and confirm that the original message and any attachments and copies have been destroyed and deleted from your system. This disclaimer applies to any and all messages originating from us and set out above. For Canada and the United States: If you believe this is an unsolicited email and do not wish to receive future commercial electronic messages from us, please click <u>unsubscribe@amecfw.com</u> and include "Unsubscribe" in the subject line.

Please click <u>http://amecfw.com/email-disclaimer</u> for notices and company information in relation to emails originating in the UK, Italy or France.



APPENDIX B

Tank Liquids and Rinsate Water Disposal Record



Records pending as of the writing of this report. To be submitted separately.



This page intentionally left blank.



APPENDIX C

Seattle Fire Department UST Decommissioning Permit

WGD 03/11/15 Your 9 AM 5K	RECEIVED
	MAR 0.9-2015
Seattle Fire Donartmont	PERMIT SECTION
Fire Department APPLICA	TION FOR TEMPORARY PERMIT
Code 7908 Commercia	Tank Removal/Decommissioning
Permit Fee: \$218.00	Date Issued: <u>3/n/15</u>
TO BE COMPLETED BY PERMIT APPLICANT	Tank(s) must be removed from site on the same day as permit is issued!
FIRM NAME TO ENMONUM	
MAILING ADDRESS 2200 19	the SE SUITE
CITY BELLEUVE	STATE CAN ZIP 98005
JOBSITE ADDRESS 5400 Amport	Way sarthy scattle, with
CONTACT PERSON SEPP-ICECLEN	PHONE NUMBER (428 698-3083
Number of Tank(s): Tank Size(
Product(s) Previously Contained:	
	tificate required for all tanks regardless of size or contents)
Abandonment-in-Place (Marine Chemist certi and/or unknowns)	ficate required for tanks previously containing Class I flammable liquids
Hot work being conducted: No	\Box Yes (If yes, a separate hot work permit is required)
Permit applications may be submitted in person v	weekdays from 8:00 a.m. to 5:00 p.m., or mailed to:
Seattle Fire Department	To pay with a Visa or Master Card: Fax or email this application
Fire Marshal's Office – Permits 220 Third Ave S, 2 nd Floor	THEN CALL US TO CONFIRM RECEIPT AND MAKE PAYMENT Tel: (206) 386-1450 / Fax: (206) 386-1348
Seattle, WA 98104-2608	E-mail: permits@seattle.gov
	ior to needed inspection time to arrange for an appointment.
	MMISSIONED ONLY AFTER FIRE DEPARTMENT INSPECTION
	SYSTEM PRIOR TO ISSUANCE OF THIS FIRE DEPARTMENT PERMIT!
conditions, an noted special conditions, and al	mission the tank(s) identified in this permit in accordance with the attached applicable provisions of the Seattle Fire Code, federal, state and local
regulations. THIS FERMIT IS NULL AND VOI	D IF PERMIT CONDITIONS ARE NOT ATTACHED
Special permit conditions: <u>Tank removal/decommiss</u>	ioning must be performed, or directly supervised, by an ICC certified individual (WAC 173-360-600)
FMOUSE: 2820030915	APPROVED BY:
	Inspector: $(1)e^{-1}$ SFD ID# $(1)e^{-1}$ Name of Marine Chemist $(1)e^{-1}$ (certificate # (3)?
	Name of Marine Chemist 0 $Alder Certificate # 437Date: 1/41$
(01/15)	



APPENDIX D

UST Pump and Rinse Certificate

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:	750 gls	
Last Contents	Stoddard Solvent	
Tank Location:	5400 Airport Way S.	
	Seattle WA.	

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: IO Enviro	hm	ental+Infrastructur
······································	7	
M.V.S. Representative: Call	11	Chillin Kundenan
Wi. V.D. Representative. <u>000 Ot</u>		course care
Date: $03 - 11 - 15$		
DT -		
Notes:		
DBE # D4M1302341		
."		

EPA # WAD980974521

A MINORITY BUSINESS ENTERPRISE ID # D4M1302341



APPENDIX E

Marine Chemist Tank Testing Certificate

Inspected Spaces:	Safety Designations: ATMOSPHERE SAFE FOR WORK	ERS
Last Three 3 Loadings	Tests Performed	Time Survey Completed
Stoddard Solvent	O ₂ , LEL, Visual, VOC	10:25
Vessel	Type of Vessel	Specific Location of Vessel
Tank Farm	Underground Storage Tank	5400 Airport Way South
Survey Requested by	Vessel Owner Agent	Date
I O Environmental	Kelly Moore	Mar 11, 2015
George D Blair - Northwest Marine Chem P. O. Box 7084, Tacoma, WA 98406 Office: 253-752-0149 Fax: 253-759-352 Email: gbcmc637@gmail.com		Serial 637-00390 Page 1 of 1

SAFE FOR HOT WORK

Instructions

Group 1, 1-1,000 gal. UST

Maintain firewatch with charged extinguisher at ready during hot work operations.

This tank has been cleaned free of all flammable and combustible residues and is safe for excavation, transportation, and demolition.

Test Results Inspected spaces group 1	<u>% 0,</u> 20.8%	<u>% LEL</u> 0%	<u>VOC</u> 6.1 ppm	
Limits of Detection 0.1 ppm VOC				
				· · · · · · · · · · · · · · · · · · ·

In the event of physical or atmospheric changes affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, this certificate is voided; spaces not listed on the Certificate are not to be entered unless authorized on another Certificate and/or maintained in accordance with OSHA 29 CFR 1915; or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist. Unless otherwise stated on the Certificate, all spaces and affected adjacent spaces are to be reinspected daily or more often as necessary by the competent person or the authority having jurisdiction as applicable in support of work prior to entry or recommencement of work.

QUALIFICATIONS: Transfer of ballast, cargo, fuel or manipulation of valves or closure equipment tending to alter conditions in pipelines, tanks, or compartments subject to gas accumulation, unless specifically approved on this Certificate, requires inspection and a new Certificate for spaces so affected. All lines, vents, heating coils, valves, and similar enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated. Movement of the vessel from its specific location voids the Certificate unless shifting of the vessel within the facility has been specifically authorized on this certificate.

STANDARD SAFETY DESIGNATIONS: (partial list, paraphrased from NFP 306, Subsections 4.3.1 through 4.3.6) ATMOSPHERE SAFE FOR WORKERS: In the compartment or space so designated (a) the oxygen content of the atmosphere shall be at least 19.5 percent and not greater than 22 percent by volume; (b) the concentration of flammable materials is below 10 percent of the lower explosive limit; (c) any toxic materials in the atmosphere associated with cargo, fuel, tank coatings, inerting mediums, or fumigants are within permissible concentrations at the time of the inspection.

NOT SAFE FOR WORKERS: In the compartment or space so designated, entry shall not be permitted.

ENTER WITH RESTRICTIONS: In the compartment or space so designated, entry for work is permitted only if conditions of proper protective equipment, or clothing, or time, or all of the aforementioned, as appropriate, are as specified.

SAFE FOR HOT WORK: In the compartment or space so designated (a) the oxygen content of the atmosphere is not greater than 22 percent by volume; (b) the concentration of flammable materials in the atmosphere is less than 10 percent of the lower explosive limit; (c) the residues, scale, or preservative coatings are cleaned sufficiently to prevent the spread of fire and are not be capable of producing a higher concentration than permitted by (a) or (b); (d) all adjacent spaces, containing or having contained flammable or combustible materials shall be sufficiently cleaned of residues, scale, or preservative coatings to prevent the spread of fire; or they are inerted. Ship's fuel tanks, lube tanks, or engine room or fire room bilges, or other machinery spaces, are treated in accordance with the Marine Chemist's requirements

SAFE FOR LIMITED HOT WORK: In the compartment or space so designated (a) portions of the space meet the requirements Safe for Hot Work and Partial Cleaning, as applicable, or (b) the space is inerted, adjacent spaces meet the requirements for Safe for Hot Work, and hot work is restricted to specific locations; (c) portions of the space shall meet the requirements for Safe for Hot Work, as applicable; and the nature or type of hot work shall be limited or restricted.

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

CHEMISTS ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

I O Environmental

"The undersigned acknowledges receipt of this Certificate under NFPA 306 and understands conditions and limitations under which it was issued, and the requirements for maintaining its validity."

Date

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

637 CMC No.

Authorized Representative

Mar 11, 2015 Company

Signed Marine Chemist



APPENDIX F

Tank Destruction Record

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: 3/11/15

TANK OWNER: Kelley MODR Paint/10 Environ mental TANK LOCATION: 5400 airport Ways Seattle, WA TANK DESCRIPTION: 750 UST

LAST CONTENTS HELD IN TANKS: Stoddard Solvent

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, Marine Vacuum Service, Anc.

DBE # D4M1302341

EPA # WAD980974521

A MINORITY BUSINESS ENTERPRISE ID # D4M1302341



APPENDIX G

Selected Site Photographs



APPENDIX G

SELECTED SITE PHOTOGRAPHS

5400 Airport Way South Seattle, Washington





APPENDIX G

SELECTED SITE PHOTOGRAPHS

5400 Airport Way South Seattle, Washington



Photograph 3 UST after moving to temporary staging area. View is to the east.



APPENDIX H

Laboratory Analytical Results



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

March 6, 2015

Tasya Gray AMEC Environment and Infrastructure, Inc. One Union Square 600 University Street, Suite 600 Seattle, WA 98101

Re: Analytical Data for Project 14697 Laboratory Reference No. 1503-037

Dear Tasya:

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

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

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

Sincerely,

David Baumeister Project Manager

Enclosures

Case Narrative

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

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

NWTPH Gx/BTEX Analysis

Method 5035A VOA vials were not provided. The sample was therefore extracted from a 4-ounce jar for analysis. Some loss of volatiles may have occurred.

The sample chromatogram is similar to mineral spirits with diesel.

Semivolatiles EPA 8270D/SIM Analysis

Sample tank-soil-B1 had one surrogate recovery out of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Total Metals EPA 6010C/7471B Analysis

The duplicate RPD for Chromium is outside control limits due to the inherently high percentage variability of samples that are within five times the detection limit.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

NWTPH-Gx/BTEX

Matrix: Soil Units: mg/kg (ppm)

3· 3 (1-1- /				Date	Date		
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags	
Client ID:	tank-soil-B1						
Laboratory ID:	03-037-01						
Benzene	0.17	0.025	EPA 8021B	3-5-15	3-5-15		
Toluene	0.19	0.13	EPA 8021B	3-5-15	3-5-15		
Ethyl Benzene	2.5	0.13	EPA 8021B	3-5-15	3-5-15		
m,p-Xylene	5.0	0.13	EPA 8021B	3-5-15	3-5-15		
o-Xylene	ND	1.3	EPA 8021B	3-5-15	3-5-15	U1	
Gasoline	4400	320	NWTPH-Gx	3-5-15	3-6-15	Z	
Surrogate:	Percent Recovery	Control Limits					
Fluorobenzene	85	68-123					

NWTPH-Gx/BTEX QUALITY CONTROL

Matrix: Soil Units: mg/kg (ppm)

0 0 (11)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0305S1					
Benzene	ND	0.020	EPA 8021B	3-5-15	3-5-15	
Toluene	ND	0.050	EPA 8021B	3-5-15	3-5-15	
Ethyl Benzene	ND	0.050	EPA 8021B	3-5-15	3-5-15	
m,p-Xylene	ND	0.050	EPA 8021B	3-5-15	3-5-15	
o-Xylene	ND	0.050	EPA 8021B	3-5-15	3-5-15	
Gasoline	ND	5.0	NWTPH-Gx	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	84	68-123				

					Source	Ре	rcent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	03-03	31-01									
	ORIG	DUP									
Benzene	ND	ND	NA	NA			NA	NA	NA	30	
Toluene	ND	ND	NA	NA			NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA			NA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA			NA	NA	NA	30	
o-Xylene	ND	ND	NA	NA			NA	NA	NA	30	
Gasoline	ND	ND	NA	NA			NA	NA	NA	30	
Surrogate:											
Fluorobenzene						89	92	68-123			
SPIKE BLANKS											
Laboratory ID:	SB03	05S1									
	SB	SBD	SB	SBD		SB	SBD				
Benzene	0.930	0.964	1.00	1.00		93	96	75-117	4	13	
Toluene	0.936	0.968	1.00	1.00		94	97	78-118	3	12	
Ethyl Benzene	0.932	0.974	1.00	1.00		93	97	78-118	4	12	
m,p-Xylene	0.939	0.980	1.00	1.00		94	98	78-121	4	13	
o-Xylene	0.948	0.983	1.00	1.00		95	98	77-119	4	13	
Surrogate:											
Fluorobenzene						91	94	68-123			

NWTPH-Dx

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	tank-soil-B1					
Laboratory ID:	03-037-01					
Diesel Range Organics	2100	150	NWTPH-Dx	3-5-15	3-5-15	М
Lube Oil Range Organics	1700	290	NWTPH-Dx	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	87	50-150				

NWTPH-Dx QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0305S4					
Diesel Range Organics	ND	25	NWTPH-Dx	3-5-15	3-5-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	102	50-150				

					Source	Perc	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Reco	overy	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	03-03	31-01									
	ORIG	DUP									
Diesel Range	ND	ND	NA	NA		Ν	A	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA		N	A	NA	NA	NA	
Surrogate:											
o-Terphenyl						92	94	50-150			

SEMIVOLATILES EPA 8270D/SIM page 1 of 2

Matrix: Soil Units: mg/Kg

Units: mg/Kg				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	tank-soil-B1					
Laboratory ID:	03-037-01					
n-Nitrosodimethylamine	ND	0.79	EPA 8270D	3-5-15	3-6-15	
Pyridine	ND	7.9	EPA 8270D	3-5-15	3-6-15	
Phenol	ND	0.79	EPA 8270D	3-5-15	3-6-15	
Aniline	ND	3.9	EPA 8270D	3-5-15	3-6-15	
bis(2-Chloroethyl)ether	ND	0.79	EPA 8270D	3-5-15	3-6-15	
2-Chlorophenol	ND	0.79	EPA 8270D	3-5-15	3-6-15	
1,3-Dichlorobenzene	ND	0.79	EPA 8270D	3-5-15	3-6-15	
1,4-Dichlorobenzene	ND	0.79	EPA 8270D	3-5-15	3-6-15	
Benzyl alcohol	ND	3.9	EPA 8270D	3-5-15	3-6-15	
1,2-Dichlorobenzene	ND	0.79	EPA 8270D	3-5-15	3-6-15	
2-Methylphenol (o-Cresol)	ND	0.79	EPA 8270D	3-5-15	3-6-15	
bis(2-Chloroisopropyl)ether	ND	0.79	EPA 8270D	3-5-15	3-6-15	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.79	EPA 8270D	3-5-15	3-6-15	
n-Nitroso-di-n-propylamine	ND	0.79	EPA 8270D	3-5-15	3-6-15	
Hexachloroethane	ND	0.79	EPA 8270D	3-5-15	3-6-15	
Nitrobenzene	ND	0.79	EPA 8270D	3-5-15	3-6-15	
Isophorone	ND	0.79	EPA 8270D	3-5-15	3-6-15	
2-Nitrophenol	ND	0.79	EPA 8270D	3-5-15	3-6-15	
2,4-Dimethylphenol	ND	0.79	EPA 8270D	3-5-15	3-6-15	
bis(2-Chloroethoxy)methane	ND	0.79	EPA 8270D	3-5-15	3-6-15	
2,4-Dichlorophenol	ND	0.79	EPA 8270D	3-5-15	3-6-15	
1,2,4-Trichlorobenzene	ND	0.79	EPA 8270D	3-5-15	3-6-15	
Naphthalene	8.2	0.79	EPA 8270D	3-5-15	3-6-15	
4-Chloroaniline	ND	3.9	EPA 8270D	3-5-15	3-6-15	
Hexachlorobutadiene	ND	0.79	EPA 8270D	3-5-15	3-6-15	
4-Chloro-3-methylphenol	ND	0.79	EPA 8270D	3-5-15	3-6-15	
2-Methylnaphthalene	16	0.79	EPA 8270D	3-5-15	3-6-15	
1-Methylnaphthalene	12	0.79	EPA 8270D	3-5-15	3-6-15	
Hexachlorocyclopentadiene	ND	0.79	EPA 8270D	3-5-15	3-6-15	
2,4,6-Trichlorophenol	ND	0.79	EPA 8270D	3-5-15	3-6-15	
2,3-Dichloroaniline	ND	0.79	EPA 8270D	3-5-15	3-6-15	
2,4,5-Trichlorophenol	ND	0.79	EPA 8270D	3-5-15	3-6-15	
2-Chloronaphthalene	ND	0.79	EPA 8270D	3-5-15	3-6-15	
2-Nitroaniline	ND	0.79	EPA 8270D	3-5-15	3-6-15	
1,4-Dinitrobenzene	ND	0.79	EPA 8270D	3-5-15	3-6-15	
Dimethylphthalate	ND	0.79	EPA 8270D	3-5-15	3-6-15	
1,3-Dinitrobenzene	ND	0.79	EPA 8270D	3-5-15	3-6-15	
2,6-Dinitrotoluene	ND	0.79	EPA 8270D	3-5-15	3-6-15	
1,2-Dinitrobenzene	ND	0.79	EPA 8270D	3-5-15	3-6-15	
Acenaphthylene	0.93	0.79	EPA 8270D	3-5-15	3-6-15	
3-Nitroaniline	ND	0.79	EPA 8270D	3-5-15	3-6-15	

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	tank-soil-B1		MELIIUU	riepareu	Ana y200	1 1495
Laboratory ID:	03-037-01					
2,4-Dinitrophenol	<u>ND</u>	3.9	EPA 8270D	3-5-15	3-6-15	
Acenaphthene	5.8	0.79	EPA 8270D	3-5-15	3-6-15	
1-Nitrophenol	ND	0.79	EPA 8270D	3-5-15	3-6-15	
2,4-Dinitrotoluene	ND	0.79	EPA 8270D	3-5-15	3-6-15	
Dibenzofuran	1.8	0.79	EPA 8270D	3-5-15	3-6-15	
2,3,5,6-Tetrachlorophenol	ND	0.79	EPA 8270D	3-5-15	3-6-15	
2,3,4,6-Tetrachlorophenol	ND	0.79	EPA 8270D	3-5-15	3-6-15	
Diethylphthalate	ND	3.9	EPA 8270D	3-5-15	3-6-15	
I-Chlorophenyl-phenylether	ND	0.79	EPA 8270D	3-5-15	3-6-15	
I-Nitroaniline	ND	0.79	EPA 8270D EPA 8270D	3-5-15	3-6-15	
	3.6					
Fluorene		0.79	EPA 8270D	3-5-15	3-6-15	
1,6-Dinitro-2-methylphenol	ND ND	3.9	EPA 8270D	3-5-15 2 5 1 5	3-6-15	
n-Nitrosodiphenylamine I ,2-Diphenylhydrazine	ND	0.79	EPA 8270D	3-5-15 2 5 1 5	3-6-15	
		0.79	EPA 8270D	3-5-15	3-6-15	
-Bromophenyl-phenylether	ND	0.79	EPA 8270D	3-5-15	3-6-15	
Hexachlorobenzene	ND	0.79	EPA 8270D	3-5-15	3-6-15	
Pentachlorophenol	ND	3.9	EPA 8270D	3-5-15	3-6-15	
Phenanthrene	12	0.79	EPA 8270D	3-5-15	3-6-15	
Anthracene	3.3	0.79	EPA 8270D	3-5-15	3-6-15	
Carbazole	ND	0.79	EPA 8270D	3-5-15	3-6-15	
)i-n-butylphthalate	ND	0.79	EPA 8270D	3-5-15	3-6-15	
luoranthene	14	0.79	EPA 8270D	3-5-15	3-6-15	
Benzidine	ND	7.9	EPA 8270D	3-5-15	3-6-15	
yrene	14	0.79	EPA 8270D	3-5-15	3-6-15	
Butylbenzylphthalate	ND	0.79	EPA 8270D	3-5-15	3-6-15	
ois-2-Ethylhexyladipate	ND	0.79	EPA 8270D	3-5-15	3-6-15	
3,3'-Dichlorobenzidine	ND	3.9	EPA 8270D	3-5-15	3-6-15	
Benzo[a]anthracene	11	0.79	EPA 8270D	3-5-15	3-6-15	
Chrysene	15	0.79	EPA 8270D	3-5-15	3-6-15	
ois(2-Ethylhexyl)phthalate	ND	0.79	EPA 8270D	3-5-15	3-6-15	
Di-n-octylphthalate	ND	0.79	EPA 8270D	3-5-15	3-6-15	
Benzo[b]fluoranthene	20	0.79	EPA 8270D	3-5-15	3-6-15	
Benzo(j,k)fluoranthene	6.0	0.79	EPA 8270D	3-5-15	3-6-15	
Benzo[a]pyrene	11	0.79	EPA 8270D	3-5-15	3-6-15	
ndeno[1,2,3-cd]pyrene	8.4	0.79	EPA 8270D	3-5-15	3-6-15	
Dibenz[a,h]anthracene	3.2	0.79	EPA 8270D	3-5-15	3-6-15	
Benzo[g,h,i]perylene	10	0.79	EPA 8270D	3-5-15	3-6-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	47	31 - 110				
Phenol-d6	60	34 - 109				
Nitrobenzene-d5	125	30 - 109				Q
2-Fluorobiphenyl	83	39 - 103				
2,4,6-Tribromophenol	48	25 - 120				
Terphenyl-d14	75	40 - 117				

SEMIVOLATILES EPA 8270D/SIM METHOD BLANK QUALITY CONTROL page 1 of 2

Matrix: Soil Units: mg/Kg

Units: mg/Kg	Dearth	DOI	Mothed	Date	Date	Flores
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0305S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	3-5-15	3-6-15	
Pyridine	ND	0.33	EPA 8270D	3-5-15	3-6-15	
Phenol	ND	0.033	EPA 8270D	3-5-15	3-6-15	
Aniline	ND	0.17	EPA 8270D	3-5-15	3-6-15	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	3-5-15	3-6-15	
2-Chlorophenol	ND	0.033	EPA 8270D	3-5-15	3-6-15	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	3-5-15	3-6-15	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	3-5-15	3-6-15	
Benzyl alcohol	ND	0.17	EPA 8270D	3-5-15	3-6-15	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	3-5-15	3-6-15	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	3-5-15	3-6-15	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	3-5-15	3-6-15	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	3-5-15	3-6-15	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	3-5-15	3-6-15	
Hexachloroethane	ND	0.033	EPA 8270D	3-5-15	3-6-15	
Nitrobenzene	ND	0.033	EPA 8270D	3-5-15	3-6-15	
Isophorone	ND	0.033	EPA 8270D	3-5-15	3-6-15	
2-Nitrophenol	ND	0.033	EPA 8270D	3-5-15	3-6-15	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	3-5-15	3-6-15	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	3-5-15	3-6-15	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	3-5-15	3-6-15	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	3-5-15	3-6-15	
Naphthalene	ND	0.0067	EPA 8270D/SIM	3-5-15	3-6-15	
4-Chloroaniline	ND	0.17	EPA 8270D	3-5-15	3-6-15	
Hexachlorobutadiene	ND	0.033	EPA 8270D	3-5-15	3-6-15	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	3-5-15	3-6-15	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	3-5-15	3-6-15	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	3-5-15	3-6-15	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	3-5-15	3-6-15	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	3-5-15	3-6-15	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	3-5-15	3-6-15	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	3-5-15	3-6-15	
2-Chloronaphthalene	ND	0.033	EPA 8270D	3-5-15	3-6-15	
2-Nitroaniline	ND	0.033	EPA 8270D	3-5-15	3-6-15	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	3-5-15	3-6-15	
Dimethylphthalate	ND	0.033	EPA 8270D	3-5-15	3-6-15	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	3-5-15	3-6-15	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	3-5-15	3-6-15	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	3-5-15	3-6-15	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	3-5-15	3-6-15	
3-Nitroaniline	ND	0.033	EPA 8270D	3-5-15	3-6-15	

SEMIVOLATILES EPA 8270D/SIM METHOD BLANK QUALITY CONTROL page 2 of 2

Analuta	Docult		Mothad	Date Proported	Date	Floor
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0305S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	3-5-15	3-6-15	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	3-5-15	3-6-15	
4-Nitrophenol	ND	0.033	EPA 8270D	3-5-15	3-6-15	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	3-5-15	3-6-15	
Dibenzofuran	ND	0.033	EPA 8270D	3-5-15	3-6-15	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	3-5-15	3-6-15	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	3-5-15	3-6-15	
Diethylphthalate	ND	0.17	EPA 8270D	3-5-15	3-6-15	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	3-5-15	3-6-15	
4-Nitroaniline	ND	0.033	EPA 8270D	3-5-15	3-6-15	
Fluorene	ND	0.0067	EPA 8270D/SIM	3-5-15	3-6-15	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	3-5-15	3-6-15	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	3-5-15	3-6-15	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	3-5-15	3-6-15	
4-Bromophenyl-phenylether		0.033	EPA 8270D	3-5-15	3-6-15	
Hexachlorobenzene	ND	0.033	EPA 8270D	3-5-15	3-6-15	
Pentachlorophenol	ND	0.17	EPA 8270D	3-5-15	3-6-15	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	3-5-15	3-6-15	
Anthracene	ND	0.0067	EPA 8270D/SIM	3-5-15	3-6-15	
Carbazole	ND	0.033	EPA 8270D	3-5-15	3-6-15	
Di-n-butylphthalate	ND	0.033	EPA 8270D	3-5-15	3-6-15	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	3-5-15	3-6-15	
Benzidine	ND	0.33	EPA 8270D	3-5-15	3-6-15	
Pyrene	ND	0.0067	EPA 8270D/SIM	3-5-15	3-6-15	
Butylbenzylphthalate	ND	0.033	EPA 8270D	3-5-15	3-6-15	
bis-2-Ethylhexyladipate	ND	0.033	EPA 8270D	3-5-15	3-6-15	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	3-5-15	3-6-15	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	3-5-15	3-6-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	3-5-15	3-6-15	
bis(2-Ethylhexyl)phthalate	ND	0.033	EPA 8270D	3-5-15	3-6-15	
Di-n-octylphthalate	ND	0.033	EPA 8270D	3-5-15	3-6-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	3-5-15	3-6-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM EPA 8270D/SIM	3-5-15	3-6-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM EPA 8270D/SIM	3-5-15	3-6-15	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM EPA 8270D/SIM	3-5-15	3-6-15	
Dibenz[a,h]anthracene	ND				3-6-15	
	ND	0.0067 0.0067	EPA 8270D/SIM EPA 8270D/SIM	3-5-15 3-5-15	3-6-15	
Benzo[g,h,i]perylene Surrogate:	Percent Recovery	Control Limits		3-5-15	3-0-13	
2-Fluorophenol	75	31 - 110				
Phenol-d6	75 77	34 - 109				
Nitrobenzene-d5	80	34 - 109 30 - 109				
2-Fluorobiphenyl	80 75	30 - 109 39 - 103				
2,4,6-Tribromophenol	69	25 - 120				
Z,4,6-Thbromophenoi Terphenyl-d14	69 68	25 - 120 40 - 117				
i eipileliyi-u i 4	00	40 - 117				

SEMIVOLATILES EPA 8270D/SIM SB/SBD QUALITY CONTROL

Matrix: Soil Units: mg/Kg

0 0	Percen		rcent	Recovery						
Analyte	Re	sult	Spike	Level	Red	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB03	805S1								
	SB	SBD	SB	SBD	SB	SBD				
Phenol	0.954	1.06	1.33	1.33	72	80	55 - 105	11	25	
2-Chlorophenol	0.950	1.07	1.33	1.33	71	80	56 - 102	12	30	
1,4-Dichlorobenzene	0.487	0.528	0.667	0.667	73	79	49 - 99	8	35	
n-Nitroso-di-n-propylamine	0.460	0.521	0.667	0.667	69	78	52 - 102	12	26	
1,2,4-Trichlorobenzene	0.479	0.559	0.667	0.667	72	84	49 - 110	15	30	
4-Chloro-3-methylphenol	0.908	1.10	1.33	1.33	68	83	59 - 113	19	22	
Acenaphthene	0.422	0.512	0.667	0.667	63	77	52 - 103	19	22	
4-Nitrophenol	0.944	1.18	1.33	1.33	71	89	51 - 125	22	23	
2,4-Dinitrotoluene	0.429	0.534	0.667	0.667	64	80	53 - 118	22	23	
Pentachlorophenol	0.957	1.13	1.33	1.33	72	85	25 - 141	17	39	
Pyrene	0.423	0.505	0.667	0.667	63	76	57 - 120	18	20	
Surrogate:										
2-Fluorophenol					68	76	31 - 110			
Phenol-d6					69	79	34 - 109			
Nitrobenzene-d5					69	82	30 - 109			
2-Fluorobiphenyl					66	78	39 - 103			
2,4,6-Tribromophenol					63	76	25 - 120			
Terphenyl-d14					60	71	40 - 117			

PCBs EPA 8082A

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	tank-soil-B1					
Laboratory ID:	03-037-01					
Aroclor 1016	ND	0.24	EPA 8082A	3-6-15	3-6-15	
Aroclor 1221	ND	0.24	EPA 8082A	3-6-15	3-6-15	
Aroclor 1232	ND	0.24	EPA 8082A	3-6-15	3-6-15	
Aroclor 1242	ND	0.24	EPA 8082A	3-6-15	3-6-15	
Aroclor 1248	ND	0.24	EPA 8082A	3-6-15	3-6-15	
Aroclor 1254	ND	0.24	EPA 8082A	3-6-15	3-6-15	
Aroclor 1260	ND	0.24	EPA 8082A	3-6-15	3-6-15	
Surrogate:	Percent Recovery	Control Limits				
DCB	104	55-140				

PCBs EPA 8082A QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0306S1					
Aroclor 1016	ND	0.050	EPA 8082A	3-6-15	3-6-15	
Aroclor 1221	ND	0.050	EPA 8082A	3-6-15	3-6-15	
Aroclor 1232	ND	0.050	EPA 8082A	3-6-15	3-6-15	
Aroclor 1242	ND	0.050	EPA 8082A	3-6-15	3-6-15	
Aroclor 1248	ND	0.050	EPA 8082A	3-6-15	3-6-15	
Aroclor 1254	ND	0.050	EPA 8082A	3-6-15	3-6-15	
Aroclor 1260	ND	0.050	EPA 8082A	3-6-15	3-6-15	
Surrogate:	Percent Recovery	Control Limits				
DCB	91	55-140				

				Source	Pe	rcent	Recovery		RPD	
Re	sult	Spike	Level	Result	Rec	covery	Limits	RPD	Limit	Flags
03-02	22-02									
MS	MSD	MS	MSD		MS	MSD				
0.296	0.267	0.500	0.500	ND	59	53	46-136	10	17	
					65	62	55-140			
	03-02 MS		03-022-02 MS MSD MS	03-022-02 MS MSD MS MSD	ResultSpike LevelResult03-022-02MSMSD	Result Spike Level Result Result 03-022-02	Result Spike Level Result Recovery 03-022-02	Result Spike Level Result Recovery Limits 03-022-02	Result Spike Level Result Recovery Limits RPD 03-022-02 MS MSD MS MSD Image: MSD<	Result Spike Level Result Recovery Limits RPD Limit 03-022-02 MS MSD MS MSD MS MSD Image: MSD Ima

TOTAL METALS EPA 6010C/7471B

Matrix:	Soil
Units:	mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	03-037-01 tank-soil-B1					
Arsenic	ND	12	6010C	3-5-15	3-5-15	
Barium	170	2.9	6010C	3-5-15	3-5-15	
Cadmium	ND	0.59	6010C	3-5-15	3-5-15	
Chromium	25	0.59	6010C	3-5-15	3-5-15	
Lead	120	5.9	6010C	3-5-15	3-5-15	
Mercury	ND	0.29	7471B	3-6-15	3-6-15	
Selenium	ND	12	6010C	3-5-15	3-5-15	
Silver	ND	1.2	6010C	3-5-15	3-5-15	

14

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

TOTAL METALS EPA 6010C METHOD BLANK QUALITY CONTROL

Date Extracted:	3-5-15
Date Analyzed:	3-5-15

Matrix: Soil Units: mg/kg (ppm)

Lab ID: MB0305SM1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0

TOTAL MERCURY EPA 7471B METHOD BLANK QUALITY CONTROL

Date Extracted:	3-6-15
Date Analyzed:	3-6-15
Motrix	Sail
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB03061

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

TOTAL METALS EPA 6010C DUPLICATE QUALITY CONTROL

Date Extracted:	3-5-15
Date Analyzed:	3-5-15

- Matrix: Soil Units: mg/kg (ppm)
- Lab ID: 02-189-01

	Sample	Duplicate			
Analyte	Result	Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	55.7	54.0	3	2.5	
	••••	••	Ū	2.0	
Cadmium	ND	ND	NA	0.50	
Chromium	55.6	41.4	29	0.50	К
Lead	ND	ND	NA	5.0	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	

TOTAL MERCURY EPA 7471B DUPLICATE QUALITY CONTROL

Date Extracted:	3-6-15
Date Analyzed:	3-6-15

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 03-037-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	

TOTAL METALS EPA 6010C MS/MSD QUALITY CONTROL

- Date Extracted: 3-5-15 Date Analyzed: 3-5-15
- Matrix: Soil Units: mg/kg (ppm)
- Lab ID: 02-189-01

	Spike		Percent		Percent		
Analyte	Level	MS	Recovery	MSD	Recovery	RPD	Flags
Arsenic	100	94.2	94	89.9	90	5	
Barium	100	165	110	158	103	4	
Cadmium	50.0	50.0	100	48.3	97	3	
Chromium	100	139	83	138	83	0	
Lead	250	229	92	220	88	4	
Selenium	100	95.7	96	94.8	95	1	
Silver	25.0	21.4	86	20.4	82	5	

TOTAL MERCURY EPA 7471B MS/MSD QUALITY CONTROL

Date Extracted: 3-6-15 Date Analyzed: 3-6-15

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 03-037-01

	Spike		Percent		Percent		
Analyte	Level	MS	Recovery	MSD	Recovery	RPD	Flags
Mercury	0.500	0.486	97	0.486	97	0	

% MOISTURE

Date Analyzed: 3-5-15

Client ID	Lab ID	% Moisture
tank-soil-B1	03-037-01	15

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881



Data Qualifiers and Abbreviations

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

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference

Reviewed/Date	Received	Relinquished	Received	Relinquished	Received	Relinquished	Signature	Company: <i>Amec</i> Project Number: <i>Horne:</i> <i>Former Kelly - Moore</i> Project Manager: <i>Tasya Groy</i> Sampled by: <i>Jathan Modeling</i> <i>Sample Identification</i> <i>Jathan Soil-Bi</i> <i>Jathan Soil-Bi</i>	Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com	OnSite Environmental Inc.
2				16	S	QW	Company	□ Same Day □ 2 Days □ Standard (7 Days) (TPH analysis 5 Days)	Turnaround Request (In working days) (Check One)	C
Reviewed/Date		(280	Carp-1	Mach	irel		Sc: 7 Number of Containers	ng days)	Chain of Custody
			3/5/15	3/5/15	3/5/15	3/5/15	Date	NWTPH-HCID NWTPH-Gx/BTEX NWTPH-Gx NWTPH-Gx NWTPH-Dx	Laboratory N	ustody
Electronic Data Deliverables (EDDe)			1330	1330	0921	1700	Time	Volatiles 8260C Halogenated Volatiles 8260C Semivolatiles 8270D/SIM (with low-level PAHs) (with 2020PC/M (am level))	Number:	
Chromatograms with final report					and pills of	Please contrin a	Comments/Special Instructions	PAHs 8270D/SIM (low-level) PCBs 8082A Organochlorine Pesticides 8081B Organophosphorus Pesticides 8270D/SIM Chlorinated Acid Herbicides 8151A Total RCRA Metals Total MTCA Metals	-	
					tasja hay De	analysis of svocs		Image: Constraint of the second s	03-037	Page of



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

March 11, 2015

Tasya Gray AMEC Environment and Infrastructure, Inc. One Union Square 600 University Street, Suite 600 Seattle, WA 98101

Re: Analytical Data for Project 14967 Laboratory Reference No. 1503-080

Dear Tasya:

Enclosed are the analytical results and associated quality control data for samples submitted on March 10, 2015.

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

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

Sincerely,

David Baumeister Project Manager

Enclosures

Case Narrative

Samples were collected on March 9, 2015 and received by the laboratory on March 10, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

Volatiles EPA 8260C Analysis

Method 5035 vials were not supplied, therefore samples were extracted from 4oz jars. Some loss of volatiles may have occurred.

Due to the necessary dilution of the samples some MTCA cleanup levels were not achievable.

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

VOLATILES EPA 8260C Page 1 of 2

Matrix: Soil Units: mg/kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	Tank-soil-B1-B					
Laboratory ID:	03-080-01					
Dichlorodifluoromethane	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Chloromethane	ND	0.31	EPA 8260C	3-10-15	3-10-15	
Vinyl Chloride	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Bromomethane	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Chloroethane	ND	0.31	EPA 8260C	3-10-15	3-10-15	
Trichlorofluoromethane	ND	0.063	EPA 8260C	3-10-15	3-10-15	
1,1-Dichloroethene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Acetone	ND	0.31	EPA 8260C	3-10-15	3-10-15	
lodomethane	ND	0.31	EPA 8260C	3-10-15	3-10-15	
Carbon Disulfide	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Methylene Chloride	ND	0.31	EPA 8260C	3-10-15	3-10-15	
(trans) 1,2-Dichloroethene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Methyl t-Butyl Ether	ND	0.063	EPA 8260C	3-10-15	3-10-15	
1,1-Dichloroethane	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Vinyl Acetate	ND	0.31	EPA 8260C	3-10-15	3-10-15	
2,2-Dichloropropane	ND	0.063	EPA 8260C	3-10-15	3-10-15	
(cis) 1,2-Dichloroethene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
2-Butanone	ND	0.31	EPA 8260C	3-10-15	3-10-15	
Bromochloromethane	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Chloroform	ND	0.063	EPA 8260C	3-10-15	3-10-15	
1,1,1-Trichloroethane	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Carbon Tetrachloride	ND	0.063	EPA 8260C	3-10-15	3-10-15	
1,1-Dichloropropene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Benzene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
1,2-Dichloroethane	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Trichloroethene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
1,2-Dichloropropane	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Dibromomethane	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Bromodichloromethane	ND	0.063	EPA 8260C	3-10-15	3-10-15	
2-Chloroethyl Vinyl Ether	ND	0.31	EPA 8260C	3-10-15	3-10-15	
(cis) 1,3-Dichloropropene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Methyl Isobutyl Ketone	ND	0.31	EPA 8260C	3-10-15	3-10-15	
Toluene	ND	0.31	EPA 8260C	3-10-15	3-10-15	
(trans) 1,3-Dichloropropene	ND	0.063	EPA 8260C	3-10-15	3-10-15	

VOLATILES EPA 8260C	
Page 2 of 2	

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
-	Tank-soil-B1-B		Method	Trepared	Andryzeu	i lugo
Laboratory ID:	03-080-01					
1,1,2-Trichloroethane	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Tetrachloroethene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
1,3-Dichloropropane	ND	0.063	EPA 8260C	3-10-15	3-10-15	
2-Hexanone	ND	0.31	EPA 8260C	3-10-15	3-10-15	
Dibromochloromethane	ND	0.063	EPA 8260C	3-10-15	3-10-15	
1,2-Dibromoethane	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Chlorobenzene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
1,1,1,2-Tetrachloroethane	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Ethylbenzene	0.29	0.063	EPA 8260C	3-10-15	3-10-15	
n,p-Xylene	1.2	0.13	EPA 8260C	3-10-15	3-10-15	
p-Xylene	0.17	0.063	EPA 8260C	3-10-15	3-10-15	
Styrene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Bromoform	ND	0.063	EPA 8260C	3-10-15	3-10-15	
sopropylbenzene	0.18	0.063	EPA 8260C	3-10-15	3-10-15	
Bromobenzene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
,1,2,2-Tetrachloroethane	ND	0.063	EPA 8260C	3-10-15	3-10-15	
,2,3-Trichloropropane	ND	0.063	EPA 8260C	3-10-15	3-10-15	
n-Propylbenzene	0.27	0.063	EPA 8260C	3-10-15	3-10-15	
2-Chlorotoluene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
I-Chlorotoluene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
,3,5-Trimethylbenzene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
ert-Butylbenzene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
,2,4-Trimethylbenzene	0.10	0.063	EPA 8260C	3-10-15	3-10-15	
sec-Butylbenzene	0.074	0.063	EPA 8260C	3-10-15	3-10-15	
I,3-Dichlorobenzene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
o-Isopropyltoluene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
I,4-Dichlorobenzene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
,2-Dichlorobenzene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
n-Butylbenzene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
1,2-Dibromo-3-chloropropane		0.31	EPA 8260C	3-10-15	3-10-15	
,2,4-Trichlorobenzene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Hexachlorobutadiene	ND	0.31	EPA 8260C	3-10-15	3-10-15	
Vaphthalene	0.38	0.063	EPA 8260C	3-10-15	3-10-15	
,2,3-Trichlorobenzene	ND	0.063	EPA 8260C	3-10-15	3-10-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	110	76-131				
Toluene-d8	103	82-129				
4-Bromofluorobenzene	117	79-126				

VOLATILES EPA 8260C METHOD BLANK QUALITY CONTROL Page 1 of 2

Matrix: Soil Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
					,, ,	g-
Laboratory ID:	MB0310S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Chloromethane	ND	0.0050	EPA 8260C	3-10-15	3-10-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Bromomethane	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Chloroethane	ND	0.0050	EPA 8260C	3-10-15	3-10-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Acetone	ND	0.0050	EPA 8260C	3-10-15	3-10-15	
lodomethane	ND	0.0050	EPA 8260C	3-10-15	3-10-15	
Carbon Disulfide	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Methylene Chloride	ND	0.0050	EPA 8260C	3-10-15	3-10-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Vinyl Acetate	ND	0.0050	EPA 8260C	3-10-15	3-10-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
2-Butanone	ND	0.0050	EPA 8260C	3-10-15	3-10-15	
Bromochloromethane	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Chloroform	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Benzene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Trichloroethene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Dibromomethane	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-10-15	3-10-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	3-10-15	3-10-15	
Toluene	ND	0.0050	EPA 8260C	3-10-15	3-10-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	

VOLATILES EPA 8260C METHOD BLANK QUALITY CONTROL Page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0310S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
2-Hexanone	ND	0.0050	EPA 8260C	3-10-15	3-10-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Chlorobenzene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Ethylbenzene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
m,p-Xylene	ND	0.0020	EPA 8260C	3-10-15	3-10-15	
o-Xylene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Styrene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Bromoform	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
lsopropylbenzene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Bromobenzene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
n-Propylbenzene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
tert-Butylbenzene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
sec-Butylbenzene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
o-Isopropyltoluene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
n-Butylbenzene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-10-15	3-10-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-10-15	3-10-15	
Naphthalene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-10-15	3-10-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	102	76-131				
Toluene-d8	96	82-129				
4-Bromofluorobenzene	99	79-126				

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

VOLATILES EPA 8260C SB/SBD QUALITY CONTROL

Matrix: Soil Units: mg/kg

					Pe	Percent			RPD	
Analyte	Res	Result		Spike Level		covery	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0310S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0460	0.0426	0.0500	0.0500	92	85	66-129	8	15	
Benzene	0.0466	0.0425	0.0500	0.0500	93	85	71-123	9	15	
Trichloroethene	0.0511	0.0454	0.0500	0.0500	102	91	75-115	12	15	
Toluene	0.0477	0.0448	0.0500	0.0500	95	90	75-120	6	15	
Chlorobenzene	0.0472	0.0421	0.0500	0.0500	94	84	75-121	11	15	
Surrogate:										
Dibromofluoromethane					100	103	76-131			
Toluene-d8					93	97	82-129			
4-Bromofluorobenzene					98	100	79-126			

% MOISTURE

Date Analyzed: 3-10-15

Client ID	Lab ID	% Moisture
Tank-soil-B1-B	03-080-01	13

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881



Data Qualifiers and Abbreviations

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

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference

Reviewed/Date	Received	Relinquished	Relinquished	Received Van	Relinquished	Signature	Project Number: K.F. Farmar Kelly Moore UST Project Manager: Taska Gray Sampled by: Nathan Maxley Lab ID Sample Identification 1 TanK-Scil - BI-B 1 TanK-Scil - BI-B	Company:	Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052	OnSite Environmental Inc.
Reviewed/Date		UXC		Sloge	5 AMEC	Company	□ Same Day □ 1 Days □ Standard (7 Days) (TPH analysis 5 Days) □ 3 Days □ Date Sampled Time Sampled Matrix 3/q//5 1/4∞ Scril 3/q//5 1/4∞ Scril □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	ck One)	Turnaround Request (in working days)	Chain o
Electronic Data Deliverables (EDDs)		Slipis 1023	21. 1. 1015	20	3/10/15 0815	Date Time	Number of Containers NWTPH-HCID NWTPH-Gx/BTEX NWTPH-Gx NWTPH-Dx Volatiles 8260C Halogenated Volatiles 8260C Semivolatiles 8270D/SIM		Laboratory Number:	Chain of Custody
Chromatograms with final report						Comments/Special Instructions	Image: Constraint of the system of the sy			Pa
					-	-	HEM (oil and grease) 1664A		03-080	Page of



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

March 11, 2015

Tasya Gray AMÉC Environment and Infrastructure, Inc. One Union Square 600 University Street, Suite 600 Seattle, WA 98101

Re: Analytical Data for Project 14697 Laboratory Reference No. 1502-262

Dear Tasya:

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

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

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

Sincerely.

David Baumeister Project Manager

Enclosures

Case Narrative

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

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

NWTPH Gx/BTEX Analysis

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

The chromatograms for samples B7-PIPING-B1-5.0, B7-PIPING-B2-5.0, B7-PIPING-S1-4.0 and B7-PIPING-S2-4.0 are similar to mineral spirits with diesel.

The chromatograms for samples B7-PIPING-B3-4.5, B7-PIPING-B4-4.5, B7-PIPING-S3-3.5 and B7-PIPING-S4-3.5 are similar to mineral spirits.

PAHs EPA 8270D/SIM Analysis

Samples B7-PIPING-B2-5.0 and B7-PIPING-S2-4.0, surrogate's recoveries are not available due to necessary dilution of the samples; the surrogates are flagged with an "S" indicator.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

NWTPH-Gx/BTEX

Matrix: Soil Units: mg/kg (ppm)

		501		Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B7-PIPING-B1-5.0					
Laboratory ID:	02-262-01					
Benzene	0.097	0.029	EPA 8021B	3-3-15	3-4-15	
Toluene	ND	0.14	EPA 8021B	3-3-15	3-4-15	
Ethyl Benzene	0.62	0.14	EPA 8021B	3-3-15	3-4-15	
m,p-Xylene	3.8	0.14	EPA 8021B	3-3-15	3-4-15	
o-Xylene	ND	1.4	EPA 8021B	3-3-15	3-4-15	U1
Gasoline	2600	360	NWTPH-Gx	3-3-15	3-5-15	Z1
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	79	68-123				
Client ID:	B7-PIPING-B2-5.0					
Laboratory ID:	02-262-02					
Benzene	0.41	0.020	EPA 8021B	3-3-15	3-4-15	
Toluene	ND	0.098	EPA 8021B	3-3-15	3-4-15	
Ethyl Benzene	1.2	0.098	EPA 8021B	3-3-15	3-4-15	
m,p-Xylene	8.9	0.098	EPA 8021B	3-3-15	3-4-15	
o-Xylene	4.8	0.098	EPA 8021B	3-3-15	3-4-15	
Gasoline	3000	490	NWTPH-Gx	3-3-15	3-5-15	Z1
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	78	68-123				
Client ID:	B7-PIPING-B3-4.5					
Laboratory ID:	02-262-03					
Benzene	0.12	0.020	EPA 8021B	3-3-15	3-4-15	
Toluene	ND	0.10	EPA 8021B	3-3-15	3-4-15	
Ethyl Benzene	0.91	0.10	EPA 8021B	3-3-15	3-4-15	
m,p-Xylene	15	5.1	EPA 8021B	3-3-15	3-5-15	
o-Xylene	4.7	0.10	EPA 8021B	3-3-15	3-4-15	
Gasoline	5800	510	NWTPH-Gx	3-3-15	3-5-15	Z2
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	77	68-123				

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

NWTPH-Gx/BTEX

Matrix: Soil Units: mg/kg (ppm)

		501		Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B7-PIPING-B4-4.5					
Laboratory ID:	02-262-04					
Benzene	0.094	0.024	EPA 8021B	3-3-15	3-4-15	
Toluene	4.9	0.12	EPA 8021B	3-3-15	3-4-15	
Ethyl Benzene	11	0.12	EPA 8021B	3-3-15	3-4-15	
m,p-Xylene	31	1.2	EPA 8021B	3-3-15	3-5-15	
o-Xylene	5.9	0.12	EPA 8021B	3-3-15	3-4-15	
Gasoline	1400	120	NWTPH-Gx	3-3-15	3-5-15	Z2
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	74	68-123				
Client ID:	B7-PIPING-S1-4.0					
Laboratory ID:	02-262-05					
Benzene	0.11	0.035	EPA 8021B	3-3-15	3-6-15	
Toluene	ND	0.17	EPA 8021B	3-3-15	3-6-15	
Ethyl Benzene	ND	0.17	EPA 8021B	3-3-15	3-6-15	
m,p-Xylene	0.64	0.17	EPA 8021B	3-3-15	3-6-15	
o-Xylene	ND	0.17	EPA 8021B	3-3-15	3-6-15	
Gasoline	250	17	NWTPH-Gx	3-3-15	3-6-15	Z1
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	69	68-123				
Client ID:	B7-PIPING-S2-4.0					
Laboratory ID:	02-262-06					
Benzene	0.069	0.020	EPA 8021B	3-3-15	3-6-15	
Toluene	ND	0.095	EPA 8021B	3-3-15	3-6-15	
Ethyl Benzene	7.4	0.095	EPA 8021B	3-3-15	3-6-15	
m,p-Xylene	9.5	2.4	EPA 8021B	3-3-15	3-6-15	
o-Xylene	1.0	0.095	EPA 8021B	3-3-15	3-6-15	
Gasoline	1300	240	NWTPH-Gx	3-3-15	3-6-15	Z1
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	77	68-123				

NWTPH-Gx/BTEX

Matrix: Soil Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B7-PIPING-S3-3.5					
Laboratory ID:	02-262-07					
Benzene	0.28	0.020	EPA 8021B	3-3-15	3-4-15	
Toluene	ND	0.048	EPA 8021B	3-3-15	3-4-15	
Ethyl Benzene	0.96	0.048	EPA 8021B	3-3-15	3-4-15	
m,p-Xylene	7.1	4.8	EPA 8021B	3-3-15	3-6-15	
o-Xylene	3.4	0.048	EPA 8021B	3-3-15	3-4-15	
Gasoline	7900	480	NWTPH-Gx	3-3-15	3-6-15	Z2
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	88	68-123				
Client ID:	B7-PIPING-S4-3.5					
Laboratory ID:	02-262-08					
Benzene	0.30	0.022	EPA 8021B	3-3-15	3-4-15	
Toluene	ND	0.11	EPA 8021B	3-3-15	3-4-15	
Ethyl Benzene	1.4	0.11	EPA 8021B	3-3-15	3-4-15	
m,p-Xylene	30	5.5	EPA 8021B	3-3-15	3-5-15	
o-Xylene	7.6	0.11	EPA 8021B	3-3-15	3-4-15	
Gasoline	8700	1100	NWTPH-Gx	3-3-15	3-6-15	Z2
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	78	68-123				

NWTPH-Gx/BTEX QUALITY CONTROL

Matrix: Soil Units: mg/kg (ppm)

			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
MB0303S2					
ND	0.020	EPA 8021B	3-3-15	3-4-15	
ND	0.050	EPA 8021B	3-3-15	3-4-15	
ND	0.050	EPA 8021B	3-3-15	3-4-15	
ND	0.050	EPA 8021B	3-3-15	3-4-15	
ND	0.050	EPA 8021B	3-3-15	3-4-15	
ND	5.0	NWTPH-Gx	3-3-15	3-4-15	
Percent Recovery	Control Limits				
91	68-123				
	MB0303S2 ND ND ND ND ND ND Percent Recovery	MB0303S2 ND 0.020 ND 0.050 ND 0.050 ND 0.050 ND 0.050 ND 0.050 ND 0.050 ND 5.0 Percent Recovery Control Limits	MB0303S2 ND 0.020 EPA 8021B ND 0.050 EPA 8021B ND 5.0 NWTPH-Gx Percent Recovery Control Limits	Result PQL Method Prepared MB0303S2	Result PQL Method Prepared Analyzed MB0303S2 ND 0.020 EPA 8021B 3-3-15 3-4-15 ND 0.050 EPA 8021B 3-3-15 3-4-15 ND 5.0 NWTPH-Gx 3-3-15 3-4-15 Percent Recovery Control Limits S-4-15 S-4-15

					Source	Ре	rcent	Recovery		RPD	
Analyte	Result		Spike Level		Result	Recovery		Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	02-2	55-06									
	ORIG	DUP									
Benzene	ND	ND	NA	NA		NA		NA	NA	30	
Toluene	ND	ND	NA	NA			NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA			NA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA			NA	NA	NA	30	
o-Xylene	ND	ND	NA	NA		NA		NA	NA	30	
Gasoline	ND	ND	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						90	96	68-123			
SPIKE BLANKS											
Laboratory ID:	SB03	03S1									
	SB	SBD	SB	SBD		SB	SBD				
Benzene	0.928	0.969	1.00	1.00		93	97	75-117	4	13	
Toluene	0.935	0.978	1.00	1.00		94	98	78-118	4	12	
Ethyl Benzene	0.923	0.973	1.00	1.00		92	97	78-118	5	12	
m,p-Xylene	0.932	0.979	1.00	1.00		93	98	78-121	5	13	
o-Xylene	0.924	0.960	1.00	1.00		92	96	77-119	4	13	
Surrogate:											
Fluorobenzene						93	96	68-123			

NWTPH-Dx

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B7-PIPING-B1-5.0			•	•	- V
Laboratory ID:	02-262-01					
Diesel Range Organics	3300	35	NWTPH-Dx	3-5-15	3-6-15	М
Lube Oil	370	70	NWTPH-Dx	3-5-15	3-6-15	N1
Surrogate:	Percent Recovery	Control Limits		00.0		
o-Terphenyl	80	50-150				
Client ID:	B7-PIPING-B2-5.0					
Laboratory ID:	02-262-02					
Diesel Range Organics	4100	29	NWTPH-Dx	3-5-15	3-6-15	М
Lube Oil	710	59	NWTPH-Dx	3-5-15	3-6-15	N1
Surrogate:	Percent Recovery	Control Limits		0-0-10	0-0-10	111
o-Terphenyl	90	50-150				
o-reiphenyi	90	50-150				
Client ID:	B7-PIPING-B3-4.5					
Laboratory ID:	02-262-03					
Diesel Range Organics	ND	1600	NWTPH-Dx	3-5-15	3-6-15	U1,M1
Lube Oil	67	55	NWTPH-Dx	3-5-15	3-6-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	90	50-150				
Client ID:	B7-PIPING-B4-4.5					
Laboratory ID:	02-262-04					
Diesel Range Organics	1300	30	NWTPH-Dx	3-5-15	3-6-15	М
Lube Oil	350	60	NWTPH-Dx	3-5-15		IVI
		Control Limits		3-5-15	3-6-15	
Surrogate:	Percent Recovery					
o-Terphenyl	95	50-150				
Client ID:	B7-PIPING-S1-4.0					
Laboratory ID:	02-262-05					
Diesel Range Organics	14000	210	NWTPH-Dx	3-5-15	3-6-15	
Lube Oil	6100	410	NWTPH-Dx	3-5-15	3-6-15	N1
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	106	50-150				
	B7-PIPING-S2-4.0					
Laboratory ID:	02-262-06					
Laboratory ID: Diesel Range Organics	02-262-06 7400	150	NWTPH-Dx	3-5-15	3-6-15	
Laboratory ID: Diesel Range Organics	02-262-06	150 300	NWTPH-Dx NWTPH-Dx	3-5-15 3-5-15	3-6-15 3-6-15	
Client ID: Laboratory ID: Diesel Range Organics Lube Oil Range Organics Surrogate:	02-262-06 7400					

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

NWTPH-Dx

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B7-PIPING-S3-3.5					
Laboratory ID:	02-262-07					
Diesel Range Organics	ND	1900	NWTPH-Dx	3-5-15	3-6-15	U1,M1
Lube Oil	61	57	NWTPH-Dx	3-5-15	3-6-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	84	50-150				

Client ID:	B7-PIPING-S4-3.5					
Laboratory ID:	02-262-08					
Diesel Range Organics	ND	2900	NWTPH-Dx	3-5-15	3-6-15	U1,M1
Lube Oil Range Organics	ND	55	NWTPH-Dx	3-5-15	3-6-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	99	50-150				

NWTPH-Dx QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0305S2					
Diesel Range Organics	ND	25	NWTPH-Dx	3-5-15	3-5-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	85	50-150				

					Source	Perc	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Reco	overy	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	03-02	20-03									
	ORIG	DUP									
Mineral Oil	ND	ND	NA	NA		Ν	A	NA	NA	NA	X1
Surrogate:											
o-Terphenyl						116	113	50-150			

9

TOTAL METALS EPA 6010C/7471B

Matrix:	Soil
Units:	mg/kg (ppm)

		PQL		Date	Date	
Analyte	Result		EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	02-262-01 B7-PIPING-B1-5.0					
Arsenic	ND	14	6010C	3-6-15	3-6-15	
Barium	24	3.5	6010C	3-6-15	3-6-15	
Cadmium	ND	0.70	6010C	3-6-15	3-6-15	
Chromium	7.8	0.70	6010C	3-6-15	3-6-15	
Lead	ND	7.0	6010C	3-6-15	3-6-15	
Mercury	ND	0.35	7471B	3-6-15	3-6-15	
Selenium	ND	14	6010C	3-6-15	3-6-15	
Silver	ND	1.4	6010C	3-6-15	3-6-15	

Lab ID: Client ID:	02-262-02 B7-PIPING-B2-5.0					
Arsenic	ND	12	6010C	3-6-15	3-6-15	
Barium	21	2.9	6010C	3-6-15	3-6-15	
Cadmium	ND	0.59	6010C	3-6-15	3-6-15	
Chromium	9.3	0.59	6010C	3-6-15	3-6-15	
Lead	ND	5.9	6010C	3-6-15	3-6-15	
Mercury	ND	0.29	7471B	3-6-15	3-6-15	
Selenium	ND	12	6010C	3-6-15	3-6-15	
Silver	ND	1.2	6010C	3-6-15	3-6-15	

TOTAL METALS EPA 6010C/7471B

Matrix:	Soil
Units:	mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
∟ab ID: Client ID:	02-262-03 B7-PIPING-B3-4.5					
Arsenic	ND	11	6010C	3-6-15	3-6-15	
Barium	41	2.8	6010C	3-6-15	3-6-15	
Cadmium	ND	0.55	6010C	3-6-15	3-6-15	
Chromium	9.9	0.55	6010C	3-6-15	3-6-15	
ead	ND	5.5	6010C	3-6-15	3-6-15	
Nercury	ND	0.28	7471B	3-6-15	3-6-15	
Selenium	ND	11	6010C	3-6-15	3-6-15	
Silver	ND	1.1	6010C	3-6-15	3-6-15	

Lab ID:	02-262-04					
Client ID:	B7-PIPING-B4-4.5					
Arsenic	ND	12	6010C	3-6-15	3-6-15	
Barium	98	3.0	6010C	3-6-15	3-6-15	
Cadmium	ND	0.60	6010C	3-6-15	3-6-15	
Chromium	18	0.60	6010C	3-6-15	3-6-15	
Lead	24	6.0	6010C	3-6-15	3-6-15	
Mercury	ND	0.30	7471B	3-6-15	3-6-15	
Selenium	ND	12	6010C	3-6-15	3-6-15	
Silver	ND	1.2	6010C	3-6-15	3-6-15	

TOTAL METALS EPA 6010C/7471B

Matrix:	Soil
Units:	mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	02-262-05 B7-PIPING-S1-4.0					
Arsenic	ND	17	6010C	3-6-15	3-6-15	
Barium	710	4.1	6010C	3-6-15	3-6-15	
Cadmium	ND	0.83	6010C	3-6-15	3-6-15	
Chromium	47	0.83	6010C	3-6-15	3-6-15	
ead	660	8.3	6010C	3-6-15	3-6-15	
Mercury	0.52	0.41	7471B	3-6-15	3-6-15	
Selenium	ND	17	6010C	3-6-15	3-6-15	
Silver	ND	1.7	6010C	3-6-15	3-6-15	

Lab ID: Client ID:	02-262-06 B7-PIPING-S2-4.0					
Arsenic	ND	12	6010C	3-6-15	3-6-15	
Barium	100	3.0	6010C	3-6-15	3-6-15	
Cadmium	ND	0.60	6010C	3-6-15	3-6-15	
Chromium	24	0.60	6010C	3-6-15	3-6-15	
Lead	30	6.0	6010C	3-6-15	3-6-15	
Mercury	ND	0.30	7471B	3-6-15	3-6-15	
Selenium	ND	12	6010C	3-6-15	3-6-15	
Silver	ND	1.2	6010C	3-6-15	3-6-15	

12

TOTAL METALS EPA 6010C/7471B

Matrix:	Soil
Units:	mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
∟ab ID: Client ID:	02-262-07 B7-PIPING-S3-3.5					
rsenic	ND	11	6010C	3-6-15	3-6-15	
Barium	52	2.8	6010C	3-6-15	3-6-15	
Cadmium	ND	0.57	6010C	3-6-15	3-6-15	
hromium	8.6	0.57	6010C	3-6-15	3-6-15	
ead	ND	5.7	6010C	3-6-15	3-6-15	
Nercury	ND	0.28	7471B	3-6-15	3-6-15	
Selenium	ND	11	6010C	3-6-15	3-6-15	
Silver	ND	1.1	6010C	3-6-15	3-6-15	

Lab ID: Client ID:	02-262-08 B7-PIPING-S4-3.5					
Arsenic	ND	11	6010C	3-6-15	3-6-15	
Barium	33	2.8	6010C	3-6-15	3-6-15	
Cadmium	ND	0.55	6010C	3-6-15	3-6-15	
Chromium	8.5	0.55	6010C	3-6-15	3-6-15	
Lead	ND	5.5	6010C	3-6-15	3-6-15	
Mercury	ND	0.28	7471B	3-6-15	3-6-15	
Selenium	ND	11	6010C	3-6-15	3-6-15	
Silver	ND	1.1	6010C	3-6-15	3-6-15	

TOTAL METALS EPA 6010C METHOD BLANK QUALITY CONTROL

Date Extracted:	3-6-15
Date Analyzed:	3-6-15

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: MB0306SM2

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

TOTAL MERCURY EPA 7471B METHOD BLANK QUALITY CONTROL

Date Extracted:	3-6-15
Date Analyzed:	3-6-15
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0306S1

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25

TOTAL METALS EPA 6010C DUPLICATE QUALITY CONTROL

Date Extracted:	3-6-15
Date Analyzed:	3-6-15

- Matrix: Soil Units: mg/kg (ppm)
- Lab ID: 02-262-03

	Sample	Duplicate			
Analyte	Result	Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	37.0	39.3	6	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	8.95	8.90	1	0.50	
Lead	ND	ND	NA	5.0	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	

TOTAL MERCURY EPA 7471B DUPLICATE QUALITY CONTROL

Date Extracted:	3-6-15
Date Analyzed:	3-6-15

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 03-037-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	

TOTAL METALS EPA 6010C MS/MSD QUALITY CONTROL

Date Extracted:	3-6-15
Date Analyzed:	3-6-15

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 02-262-03

	Spike		Percent		Percent	555	-
Analyte	Level	MS	Recovery	MSD	Recovery	RPD	Flags
Arsenic	100	96.8	97	97.2	97	0	
Barium	100	151	114	141	104	6	
Cadmium	50.0	49.4	99	49.4	99	0	
Chromium	100	106	97	105	96	1	
Lead	250	252	101	251	100	0	
Selenium	100	96.5	96	94.1	94	3	
Silver	25.0	25.1	100	25.1	100	0	

TOTAL MERCURY EPA 7471B MS/MSD QUALITY CONTROL

Date Extracted: 3-6-15 Date Analyzed: 3-6-15

Matrix: Soil Units: mg/kg (ppm)

Lab ID: 03-037-01

	Spike		Percent		Percent		
Analyte	Level	MS	Recovery	MSD	Recovery	RPD	Flags
Mercury	0.500	0.486	97	0.486	97	0	

0 0				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B7-PIPING-B1-5.0					
Laboratory ID:	02-262-01					
Benzo[a]anthracene	0.45	0.19	EPA 8270D/SIM	3-8-15	3-10-15	
Chrysene	0.47	0.19	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[b]fluoranthene	0.26	0.19	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo(j,k)fluoranthene	0.27	0.19	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]pyrene	0.42	0.19	EPA 8270D/SIM	3-8-15	3-10-15	
Indeno(1,2,3-c,d)pyrene	ND	0.19	EPA 8270D/SIM	3-8-15	3-10-15	
Dibenz[a,h]anthracene	ND	0.19	EPA 8270D/SIM	3-8-15	3-10-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	97	32 - 114				
Pyrene-d10	80	33 - 121				
Terphenyl-d14	76	31 - 116				

0 0				Date	Date		
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags	
Client ID:	B7-PIPING-B2-5.0						
Laboratory ID:	02-262-02						
Benzo[a]anthracene	4.1	0.31	EPA 8270D/SIM	3-8-15	3-10-15		
Chrysene	4.3	0.31	EPA 8270D/SIM	3-8-15	3-10-15		
Benzo[b]fluoranthene	3.2	0.31	EPA 8270D/SIM	3-8-15	3-10-15		
Benzo(j,k)fluoranthene	3.7	0.31	EPA 8270D/SIM	3-8-15	3-10-15		
Benzo[a]pyrene	4.6	0.31	EPA 8270D/SIM	3-8-15	3-10-15		
Indeno(1,2,3-c,d)pyrene	1.9	0.31	EPA 8270D/SIM	3-8-15	3-10-15		
Dibenz[a,h]anthracene	0.73	0.31	EPA 8270D/SIM	3-8-15	3-10-15		
Surrogate:	Percent Recovery	Control Limits					
2-Fluorobiphenyl		32 - 114				S	
Pyrene-d10		33 - 121				S	
Terphenyl-d14		31 - 116				S	

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B7-PIPING-B3-4.5					
Laboratory ID:	02-262-03					
Benzo[a]anthracene	ND	0.015	EPA 8270D/SIM	3-8-15	3-9-15	
Chrysene	0.020	0.015	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo[b]fluoranthene	0.020	0.015	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo(j,k)fluoranthene	ND	0.015	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo[a]pyrene	0.027	0.015	EPA 8270D/SIM	3-8-15	3-9-15	
Indeno(1,2,3-c,d)pyrene	0.044	0.015	EPA 8270D/SIM	3-8-15	3-9-15	
Dibenz[a,h]anthracene	ND	0.015	EPA 8270D/SIM	3-8-15	3-9-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	104	32 - 114				
Pyrene-d10	98	33 - 121				
Terphenyl-d14	83	31 - 116				

0 0				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B7-PIPING-B4-4.5					
Laboratory ID:	02-262-04					
Benzo[a]anthracene	0.19	0.016	EPA 8270D/SIM	3-8-15	3-10-15	
Chrysene	0.17	0.016	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[b]fluoranthene	0.31	0.016	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo(j,k)fluoranthene	0.12	0.016	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]pyrene	0.17	0.016	EPA 8270D/SIM	3-8-15	3-10-15	
Indeno(1,2,3-c,d)pyrene	0.13	0.016	EPA 8270D/SIM	3-8-15	3-10-15	
Dibenz[a,h]anthracene	0.052	0.016	EPA 8270D/SIM	3-8-15	3-10-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	95	32 - 114				
Pyrene-d10	90	33 - 121				
Terphenyl-d14	104	31 - 116				

0.0				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B7-PIPING-S1-4.0					
Laboratory ID:	02-262-05					
Benzo[a]anthracene	3.2	0.11	EPA 8270D/SIM	3-8-15	3-10-15	
Chrysene	3.1	0.11	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[b]fluoranthene	9.2	0.11	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo(j,k)fluoranthene	2.4	0.11	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]pyrene	7.8	0.11	EPA 8270D/SIM	3-8-15	3-10-15	
Indeno(1,2,3-c,d)pyrene	9.1	0.11	EPA 8270D/SIM	3-8-15	3-10-15	
Dibenz[a,h]anthracene	2.1	0.11	EPA 8270D/SIM	3-8-15	3-10-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	97	32 - 114				
Pyrene-d10	67	33 - 121				
Terphenyl-d14	66	31 - 116				

				Date	Date		
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags	
Client ID:	B7-PIPING-S2-4.0						
Laboratory ID:	02-262-06						
Benzo[a]anthracene	50	1.6	EPA 8270D/SIM	3-8-15	3-10-15		
Chrysene	52	1.6	EPA 8270D/SIM	3-8-15	3-10-15		
Benzo[b]fluoranthene	53	1.6	EPA 8270D/SIM	3-8-15	3-10-15		
Benzo(j,k)fluoranthene	44	1.6	EPA 8270D/SIM	3-8-15	3-10-15		
Benzo[a]pyrene	51	1.6	EPA 8270D/SIM	3-8-15	3-10-15		
Indeno(1,2,3-c,d)pyrene	28	1.6	EPA 8270D/SIM	3-8-15	3-10-15		
Dibenz[a,h]anthracene	12	1.6	EPA 8270D/SIM	3-8-15	3-10-15		
Surrogate:	Percent Recovery	Control Limits					
2-Fluorobiphenyl		32 - 114				S	
Pyrene-d10		33 - 121				S	
Terphenyl-d14		31 - 116				S	

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B7-PIPING-S3-3.5					
Laboratory ID:	02-262-07					
Benzo[a]anthracene	ND	0.0076	EPA 8270D/SIM	3-8-15	3-11-15	
Chrysene	ND	0.0076	EPA 8270D/SIM	3-8-15	3-11-15	
Benzo[b]fluoranthene	ND	0.0076	EPA 8270D/SIM	3-8-15	3-11-15	
Benzo(j,k)fluoranthene	ND	0.0076	EPA 8270D/SIM	3-8-15	3-11-15	
Benzo[a]pyrene	ND	0.0076	EPA 8270D/SIM	3-8-15	3-11-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0076	EPA 8270D/SIM	3-8-15	3-11-15	
Dibenz[a,h]anthracene	ND	0.0076	EPA 8270D/SIM	3-8-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	79	32 - 114				
Pyrene-d10	78	33 - 121				
Terphenyl-d14	80	31 - 116				

0 0				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B7-PIPING-S4-3.5					
Laboratory ID:	02-262-08					
Benzo[a]anthracene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Chrysene	0.0095	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[b]fluoranthene	0.013	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo(j,k)fluoranthene	0.0081	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]pyrene	0.027	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Indeno(1,2,3-c,d)pyrene	0.052	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Dibenz[a,h]anthracene	0.0081	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	89	32 - 114				
Pyrene-d10	88	33 - 121				
Terphenyl-d14	81	31 - 116				

cPAHs EPA 8270D/SIM METHOD BLANK QUALITY CONTROL

Matrix: Soil Units: mg/Kg

gg				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0308S1					
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	92	32 - 114				
Pyrene-d10	88	33 - 121				
Terphenyl-d14	79	31 - 116				

cPAHs EPA 8270D/SIM MS/MSD QUALITY CONTROL

					Source	Per	cent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-02	23-03									
	MS	MSD	MS	MSD		MS	MSD				
Benzo[a]anthracene	0.0555	0.0706	0.0833	0.0833	ND	67	85	42 - 134	24	27	
Chrysene	0.0697	0.0724	0.0833	0.0833	ND	84	87	45 - 114	4	27	
Benzo[b]fluoranthene	0.0739	0.0909	0.0833	0.0833	ND	89	109	38 - 131	20	33	
Benzo(j,k)fluoranthene	0.0667	0.0753	0.0833	0.0833	ND	80	90	44 - 114	12	34	
Benzo[a]pyrene	0.0751	0.0826	0.0833	0.0833	ND	90	99	40 - 136	10	29	
Indeno(1,2,3-c,d)pyrene	0.0682	0.0769	0.0833	0.0833	ND	82	92	45 - 126	12	30	
Dibenz[a,h]anthracene	0.0692	0.0773	0.0833	0.0833	ND	83	93	46 - 121	11	28	
Surrogate:											
2-Fluorobiphenyl						79	91	32 - 114			
Pyrene-d10						80	86	33 - 121			
Terphenyl-d14						66	74	31 - 116			

% MOISTURE

Date Analyzed: 3-3-15

Client ID	Lab ID	% Moisture
B7-PIPING-B1-5.0	02-262-01	28
B7-PIPING-B2-5.0	02-262-02	15
B7-PIPING-B3-4.5	02-262-03	9
B7-PIPING-B4-4.5	02-262-04	17
B7-PIPING-S1-4.0	02-262-05	40
B7-PIPING-S2-4.0	02-262-06	17
B7-PIPING-S3-3.5	02-262-07	12
B7-PIPING-S4-3.5	02-262-08	9

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.



Data Qualifiers and Abbreviations

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z1 The sample chromatogram is similar to mineral spirits with diesel.
- Z2 -The sample chromatogram is similar to mineral spirits.

Reviewed/Date	Received	Relinquished	Received		Relinquished	Received	Relinquished	Signature	8 67- 2010-54-50		7 B7-piping-53-315	6 B7-piping-52-4.0	S 87- piping - SI - 4:0	4 87-piping-84-4.5	3 87-piping-83-45	2 87-piping-182-5.0	1 B7- Piping-B1-5.0	Lab ID Sample Identification	Nathan Moxley	Tasya Gray	FIDECT Native. 14697	Kelly-Moore Soil EX.	Project Number		Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052	Environmental Inc.
Reviewed/Date			M	16	())	96	Ame	Company	(2 0/		1030	1025	1020	1015	1010	1005	2/27/15 1000	Date Time Sampled Sampled	(o		(TPH analysis 5 Days)	2 Days	Same Day	(Check One)	Turnaround Request (in working days)	C
ed/Date			226	Las 1	KO22	112/2 1- and	e 2/27/15			8	30			15 2	10 2		00 Seil 2	Matrix	(other)			3 Days	1 Day	One)	d Request ng days)	hain of
-			2/27/15	112-10	2/22/15			Date	4			2	2			2	×	NWTF NWTF	Iber of Containers TPH-HCID TPH-Gx/BTEX TPH-Gx TPH-Dx		15				Laboratory N	Chain of Custody
			1546	1776	1 deal	10/1	1400	Time (Haloge Semive (with lo	Volatiles 8260C Halogenated Volatiles 8260C Semivolatiles 8270D/SIM with low-level PAHs) PAHs 8270D/SIM (low-level)						Number:	
Chromatograms with final report								Comments/Special Instructions		2							×	PCBs Organo Organo Chlorir	8082A ochlorin ophospi nated A RCRA N	ne Pesti norus Pe .cid Her /letals	cides 8(esticides	081B 8270D/				
									«								×	TCLP HEM (Metals	grease	1664A				<u>c-cu</u>	Page of
									Ę								8	% Mo	isture						R V	



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

March 24, 2015

Tasya Gray AMEC Environment and Infrastructure, Inc. One Union Square 600 University Street, Suite 600 Seattle, WA 98101

Re: Analytical Data for Project 14697 Laboratory Reference No. 1503-144

Dear Tasya:

Enclosed are the analytical results and associated quality control data for samples submitted on March 16, 2015.

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

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

Sincerely,

David Baumeister Project Manager

Enclosures

Date of Report: March 24, 2015 Samples Submitted: March 16, 2015 Laboratory Reference: 1503-144 Project: 14697

Case Narrative

Samples were collected on March 13, 2015 and received by the laboratory on March 16, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

NWTPH Gx/BTEX Analysis

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

The chromatograms for samples B7-piping-B5-5.0 and B7-piping-S1B-4.0 are similar to mineral spirits with diesel.

cPAHs EPA 8270D/SIM Analysis

The method blank and a matrix spike had one surrogate recovery out of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

NWTPH-Gx/BTEX

Matrix: Soil Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B7-piping-B5-5.0					
Laboratory ID:	03-144-01					
Benzene	0.13	0.023	EPA 8021B	3-16-15	3-18-15	
Toluene	ND	0.12	EPA 8021B	3-16-15	3-18-15	
Ethyl Benzene	0.27	0.12	EPA 8021B	3-16-15	3-18-15	
m,p-Xylene	1.4	0.12	EPA 8021B	3-16-15	3-18-15	
o-Xylene	ND	0.12	EPA 8021B	3-16-15	3-18-15	
Gasoline	1100	120	NWTPH-Gx	3-16-15	3-17-15	Z
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	99	68-123				
Client ID:	B7-piping-S1B-4.0					
Laboratory ID:	03-144-02					
Benzene	0.27	0.047	EPA 8021B	3-16-15	3-17-15	
Toluene	ND	0.23	EPA 8021B	3-16-15	3-17-15	
Ethyl Benzene	0.69	0.23	EPA 8021B	3-16-15	3-17-15	
m,p-Xylene	3.6	0.23	EPA 8021B	3-16-15	3-17-15	
o-Xylene	ND	1.2	EPA 8021B	3-16-15	3-17-15	U1
Gasoline	3900	470	NWTPH-Gx	3-16-15	3-20-15	Z
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	106	68-123				

NWTPH-Gx/BTEX QUALITY CONTROL

Matrix: Soil Units: mg/kg (ppm)

0 0 (11)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0316S1					
Benzene	ND	0.020	EPA 8021B	3-16-15	3-16-15	
Toluene	ND	0.050	EPA 8021B	3-16-15	3-16-15	
Ethyl Benzene	ND	0.050	EPA 8021B	3-16-15	3-16-15	
m,p-Xylene	ND	0.050	EPA 8021B	3-16-15	3-16-15	
o-Xylene	ND	0.050	EPA 8021B	3-16-15	3-16-15	
Gasoline	ND	5.0	NWTPH-Gx	3-16-15	3-16-15	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	89	68-123				

					Source	Ре	rcent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Rec	covery	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	03-15	51-01									
	ORIG	DUP									
Benzene	ND	ND	NA	NA			NA	NA	NA	30	
Toluene	ND	ND	NA	NA			NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA			NA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA			NA	NA	NA	30	
o-Xylene	ND	ND	NA	NA			NA	NA	NA	30	
Gasoline	ND	ND	NA	NA			NA	NA	NA	30	
Surrogate:											
Fluorobenzene						98	99	68-123			
SPIKE BLANKS											
Laboratory ID:	SB03	16S1									
	SB	SBD	SB	SBD		SB	SBD				
Benzene	0.889	0.920	1.00	1.00		89	92	75-117	3	13	
Toluene	0.920	0.936	1.00	1.00		92	94	78-118	2	12	
Ethyl Benzene	0.915	0.928	1.00	1.00		92	93	78-118	1	12	
m,p-Xylene	0.941	0.939	1.00	1.00		94	94	78-121	0	13	
o-Xylene	0.923	0.925	1.00	1.00		92	93	77-119	0	13	
Surrogate:											
Fluorobenzene						87	91	68-123			

NWTPH-Dx

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B7-piping-B5-5.0					
Laboratory ID:	03-144-01					
Diesel Fuel #2	7800	160	NWTPH-Dx	3-17-15	3-19-15	
Lube Oil Range Organics	ND	970	NWTPH-Dx	3-17-15	3-19-15	U1
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	87	50-150				

Client ID:	B7-piping-S1B-4.0					
Laboratory ID:	03-144-02					
Diesel Fuel #2	11000	140	NWTPH-Dx	3-17-15	3-19-15	
Lube Oil Range Organics	ND	1300	NWTPH-Dx	3-17-15	3-19-15	U1
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	92	50-150				

5

NWTPH-Dx QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0317S2					
Diesel Range Organics	ND	25	NWTPH-Dx	3-17-15	3-17-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	3-17-15	3-17-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	94	50-150				

					Source	Perc	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Reco	overy	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	03-11	15-01									
	ORIG	DUP									
Diesel Range	ND	ND	NA	NA		Ν	A	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA		Ν	A	NA	NA	NA	
Surrogate:											
o-Terphenyl						92	86	50-150			

TOTAL METALS EPA 6010C/7471B

Matrix:	Soil
Units:	mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	03-144-01 B7-piping-B5-5.0					
Arsenic	ND	13	6010C	3-17-17	3-17-15	
Barium	49	3.2	6010C	3-17-17	3-17-15	
Cadmium	ND	0.65	6010C	3-17-17	3-17-15	
Chromium	8.4	0.65	6010C	3-17-17	3-17-15	
Lead	ND	6.5	6010C	3-17-17	3-17-15	
Mercury	ND	0.32	7471B	3-17-17	3-17-15	
Selenium	ND	13	6010C	3-17-17	3-17-15	
Silver	ND	1.3	6010C	3-17-17	3-17-15	

Lab ID: Client ID:	03-144-02 B7-piping-S1B-4.0					
Arsenic	ND	11	6010C	3-17-17	3-17-15	
Barium	33	2.7	6010C	3-17-17	3-17-15	
Cadmium	ND	0.54	6010C	3-17-17	3-17-15	
Chromium	9.5	0.54	6010C	3-17-17	3-17-15	
Lead	ND	5.4	6010C	3-17-17	3-17-15	
Mercury	ND	0.27	7471B	3-17-17	3-17-15	
Selenium	ND	11	6010C	3-17-17	3-17-15	
Silver	ND	1.1	6010C	3-17-17	3-17-15	

7

TOTAL METALS EPA 6010C/7471B METHOD BLANK QUALITY CONTROL

Date Extracted:	3-17-17
Date Analyzed:	3-17-15
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: MB0317SM1&MB0317S1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25
Selenium	6010C	ND	10
Silver	6010C	ND	1.0

TOTAL METALS EPA 6010C/7471B DUPLICATE QUALITY CONTROL

Date Extracted:	3-17-17
Date Analyzed:	3-17-15

- Matrix: Soil Units: mg/kg (ppm)
- Lab ID: 03-144-02

Sample	Duplicate			
Result	Result	RPD	PQL	Flags
ND	ND	NA	10	
20 G	20.7	0	2.5	
30.0	30.7	0	2.0	
ND	ND	NA	0.50	
8.80	8.45	4	0.50	
ND	ND	NA	5.0	
ND	ND	ΝΔ	0.25	
NB	ND	IN/A	0.25	
ND	ND	NA	10	
ND	ND	NA	1.0	
	Result ND 30.6 ND 8.80 ND ND ND	ResultResultNDND30.630.7NDND8.808.45NDNDNDNDNDNDNDND	ResultResultRPDNDNDNA30.630.70NDNDNA8.808.454NDNDNANDNDNANDNDNANDNDNANDNDNANDNDNA	ResultRPDPQLNDNDNA1030.630.702.5NDNDNA0.508.808.4540.50NDNDNA5.0NDNDNA0.25NDNDNA10

TOTAL METALS EPA 6010C/7471B MS/MSD QUALITY CONTROL

Date Extracted:	3-17-17
Date Analyzed:	3-17-15

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 03-144-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	98.3	98	96.6	97	2	
Barium	100	136	106	129	99	5	
Cadmium	50.0	49.1	98	47.7	95	3	
Chromium	100	108	99	105	96	3	
Lead	250	248	99	244	97	2	
Mercury	0.500	0.513	103	0.523	105	2	
Selenium	100	98.4	98	94.0	94	5	
Silver	25.0	25.0	100	24.4	98	2	

cPAHs EPA 8270D/SIM

Matrix: Soil Units: mg/Kg

0.0				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B7-piping-B5-5.0					
Laboratory ID:	03-144-01					
Benzo[a]anthracene	4.5	0.086	EPA 8270D/SIM	3-19-15	3-23-15	
Chrysene	3.6	0.086	EPA 8270D/SIM	3-19-15	3-23-15	
Benzo[b]fluoranthene	3.8	0.086	EPA 8270D/SIM	3-19-15	3-23-15	
Benzo(j,k)fluoranthene	1.5	0.086	EPA 8270D/SIM	3-19-15	3-23-15	
Benzo[a]pyrene	3.7	0.086	EPA 8270D/SIM	3-19-15	3-23-15	
Indeno(1,2,3-c,d)pyrene	1.3	0.086	EPA 8270D/SIM	3-19-15	3-23-15	
Dibenz[a,h]anthracene	0.42	0.086	EPA 8270D/SIM	3-19-15	3-23-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	97	32 - 114				
Pyrene-d10	92	33 - 121				
Terphenyl-d14	88	31 - 116				

cPAHs EPA 8270D/SIM

Matrix: Soil Units: mg/Kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	B7-piping-S1B-4.0					
Laboratory ID:	03-144-02					
Benzo[a]anthracene	0.45	0.072	EPA 8270D/SIM	3-19-15	3-23-15	
Chrysene	0.30	0.072	EPA 8270D/SIM	3-19-15	3-23-15	
Benzo[b]fluoranthene	0.29	0.072	EPA 8270D/SIM	3-19-15	3-23-15	
Benzo(j,k)fluoranthene	0.16	0.072	EPA 8270D/SIM	3-19-15	3-23-15	
Benzo[a]pyrene	0.28	0.072	EPA 8270D/SIM	3-19-15	3-23-15	
Indeno(1,2,3-c,d)pyrene	0.095	0.072	EPA 8270D/SIM	3-19-15	3-23-15	
Dibenz[a,h]anthracene	ND	0.072	EPA 8270D/SIM	3-19-15	3-23-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	95	32 - 114				
Pyrene-d10	90	33 - 121				
Terphenyl-d14	87	31 - 116				

cPAHs EPA 8270D/SIM METHOD BLANK QUALITY CONTROL

Matrix: Soil Units: mg/Kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB0319S1					
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	3-19-15	3-20-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	3-19-15	3-20-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	3-19-15	3-20-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	3-19-15	3-20-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	3-19-15	3-20-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	3-19-15	3-20-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	3-19-15	3-20-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	115	32 - 114				Q
Pyrene-d10	84	33 - 121				
Terphenyl-d14	81	31 - 116				

cPAHs EPA 8270D/SIM MS/MSD QUALITY CONTROL

Matrix: Soil Units: mg/Kg

					Source	Per	cent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Reco	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-10	07-01									
	MS	MSD	MS	MSD		MS	MSD				
Benzo[a]anthracene	0.0826	0.0682	0.0833	0.0833	ND	99	82	42 - 134	19	27	
Chrysene	0.0694	0.0589	0.0833	0.0833	ND	83	71	45 - 114	16	27	
Benzo[b]fluoranthene	0.0726	0.0624	0.0833	0.0833	ND	87	75	38 - 131	15	33	
Benzo(j,k)fluoranthene	0.0703	0.0616	0.0833	0.0833	ND	84	74	44 - 114	13	34	
Benzo[a]pyrene	0.0808	0.0665	0.0833	0.0833	ND	97	80	40 - 136	19	29	
Indeno(1,2,3-c,d)pyrene	0.0710	0.0591	0.0833	0.0833	ND	85	71	45 - 126	18	30	
Dibenz[a,h]anthracene	0.0713	0.0594	0.0833	0.0833	ND	86	71	46 - 121	18	28	
Surrogate:											
2-Fluorobiphenyl						120	91	32 - 114			Q
Pyrene-d10						82	69	33 - 121			
Terphenyl-d14						78	66	31 - 116			

14

% MOISTURE

Date Analyzed: 3-17-15

Client ID	Lab ID	% Moisture
B7-piping-B5-5.0	03-144-01	23
B7-piping-S1B-4.0	03-144-02	8



Data Qualifiers and Abbreviations

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

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference

Reviewed/Date	Received	Relinquished	Received	Relinquished	Received	Relinquished	Signature						2 B7-piping-SIB-4.0	1 B7- piping - 85-5,0	Lab ID Sample Identification	Nation Moxley	Sampled hur State Glay	Project Manager:	Relly-Moore Soil Ex	Project Number:	Phone: (425) 883-3881 • www.onsite-env.com Company:	Analytical Laboratory Testing Services 14648 NE 95th Street • Redemond, WA 98052	OnSite Environmental Inc.
Reviewed/Date			ndostie #	5122017	Chard	AMEC	Company						V 0755 V 2	63/13/15 0750 Soil 2	Date Time Sampled Sampled Matrix Nu	(other)	Contain	(TPH analysis 5 Days)	2 Days 3 Days	Same Day 1 Day	(Check One)	Turnaround Request (in working days)	Chain of Custody
Electronic Data Deliverables (EDDs)			Jalletis 1/21	3/19/13 (120	2/16/15 423	3/15/15 2040	Date Time	/	/				×	× ×	NWTP NWTP NWTP NWTP Volatile Haloge	H-HCII H-Gx/F H-Gx H-Dx es 8260 nated	D BTEX DC Volatile 8270E	es 82600	;			Laboratory Number:	Custody
Chromatograms with final report							Comments/Special Instructions						×	×	PCBs 8 Organo	3270D/ 3082A ochlorin phospl ated A CRA N	/SIM (Id ne Pess horus P Acid He Acid He	s) pw-level) ticides 8 resticides	081B 8270D				
							-						×	×	TCLP	Metals bil and	grease	a) 1664A				03-144	Page 1 of



APPENDIX I

Soil Disposal Tickets

The conservent Landfill solution Rocservent Grade Rd conservent Way, 99356 State Rd conservent Way, 99356 State Rd conservent Way, 99356 State Rd conservent Way, 99356 Servent Way, 99356 State Rd conservent Way, 99356 Servent Way, 99356 State Rd conservent Way, 99356 State Rd conservent Way, 99356 State Rd conservent Way, 99356 State Conservent Way, 99356 State Conservent Way, 99356 State Rd conservent Way, 99356 State Conservent Way, 99356 State Conservent Way, 99356 Tacoma, WA 98445 TB-12157 State Conservent Way, 99445 State Conservent Way, 99366 State Conservent Way, 99366 SCALE IN SCALE OUT TARE WEIGHT 116,720 NET TONS 34.13 INEOUND State Conservent Weight 68,260 INBOUND OT/. WMT Contaminated Debris Seattle State Constainated Conservent Conservent Conservent Conservent Conservent Conservent Constainated Conservent Conservent Conserv								
JUD RODSEVEIL GRADE Rd Anosevell Way, 9936. Sonsevell Grade Rd Janice F. UBTOME D10385 Date:Time W D124-112th St. E. Tacoma, WA 98445 FDE-12157 SCALE IN SCALE OUT GROSS WEIGHT 116,720 SCALE OUT TARE WEIGHT 48,460 OT WEIGHT 68,260 INBOUND OT BSSF231172 OZ/26/2015 0 SCALE OUT TARE WEIGHT 48,460 NET WEIGHT 68,260 INBOUND OT Contaminated Debris Scattle CONTAINER/CHASIS RENTAL 1.00 CONTAINER/CHASIS RENTAL	Roosevelt	Landfill		SITE	TICKET # 328979	(241041	2
Reserve1r Wa, 99356 Ustomer 010385 Without 1124-112th St. E. Tacoma, WA 98445 Differme or 02-28-2015 11:40 am OI-2-28-2015 12:01 pr V902-28-2015 12:01 pr TB-12157 POTOTION SCALE OUT GROSS WEIGHT 116,720 SCALE OUT INVOICE SCALE OUT TARE WEIGHT 48,460 NET TONS 34.13 NET WEIGHT 68,260 INBOUND OTY. UNT DESCRIPTION RATE EXTENSION 28.00 YU TRACKING QTY Seattle INBOUND 34.13 TN Contaminated Debris CONTAINER/CHASIS RENTAL Seattle NET KINSION TAX TOTAL The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer. CHECK#	500 Roosev	velt Grade Rd						
Rhine Demolition 1124-112th St. E. Tacoma, WA 98445 TB-12157 Integet individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions Integet individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions	Roosevelt	Wa, 99356		Jani	ce F.			
Rhine Demolition Prince Prine Prine Prince Princ				02-28	EIN 3-2015 11:	40 am	02-28-2015	12.01 pm
Tacoma, WA 98445 TB-12157 INVOICE SCALE IN SCALE OUT GROSS WEIGHT 116,720 TARE WEIGHT 48,460 NET TONS 34.13 NET WEIGHT 68,260 INBOUND OTY. UNIT DESCRIPTION RATE EXTENSION TAX 28.00 YD TRACKING QTY DESCRIPTION RATE EXTENSION TAX TOTAL 34.13 TN Contaminated Debris Seattle INBOUND TAX TOTAL 34.13 TN Contaminated Debris Seattle INBOUND INBOUND TAX TOTAL 1.00 CONTAINER/CHASIS RENTAL INBOUND INBOUND INBOUND INBOUND INBOUND								
TB-12157 INVOICE SCALE IN GROSS WEIGHT 116,720 NET TONS 34.13 SCALE OUT TARE WEIGHT 48,460 NET TONS 34.13 OZ/26/2015 0 OZ/26/2015 0 OTY. UNIT DESCRIPTION RATE EXTENSION TAX TOTAL OZ/26/2015 0 OTY. UNIT DESCRIPTION RATE EXTENSION TAX TOTAL OZ/26/2015 O OTT DESCRIPTION RATE EXTENSION TAX TOTAL OTT CONTAINER/CHASIS RENTAL NET AMOUNT The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms an							L'OLU456780	
ID HIGG BILL OF LAING 02/26/2015 0 SCALE IN SCALE OUT GROSS WEIGHT 116,720 NET TONS 34.13 02/26/2015 0 SCALE OUT TARE WEIGHT 48,460 NET WEIGHT 68,260 INBOUND OTY. UNIT DESCRIPTION RATE EXTENSION TAX TOTAL 34.13 TN Contaminated Debris Seattle Inscription TAX TOTAL 34.13 TN Contaminated Debris Seattle Inscription NET WEIGHT 68,260 INBOUND OUTAINER/CHASIS RENTAL Inscription RATE Extension TAX TOTAL The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer. CHECK#		IA 98445		REFEREN	CE		IN	VOTCE
SCALE OUT TARE WEIGHT 110,720 NET YEIGHT 68,260 INBOUND OTY. UNIT DESCRIPTION RATE EXTENSION TAX TOTAL 28.00 YD TRACKING QTY DESCRIPTION RATE EXTENSION TAX TOTAL 34.13 TN Contaminated Debris Seattle Indiana Indi	TB-12157			BILL OF L BNSF2	ADING 231172	02/26/2		
SCALE OUT TARE WEIGHT 48,460 NET WEIGHT 68,260 INBOUND OTY. UNIT DESCRIPTION RATE EXTENSION TAX TOTAL 34.13 TN Contaminated Debris Seattle Image: Contaminated Debris Seattle Image: Contaminated Debris Net weight 1.00 CONTAINER/CHASIS RENTAL Image: Contaminated Debris Seattle Image: Contaminated Debris Net AMOUNT The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer. Change: Check#			NET	TONS	34.13			
28.00 YD TRACKING QTY IAX TOTAL 34.13 TN Contaminated Debris Seattle Image: Contaminated Debris Seattle 1.00 CONTAINER/CHASIS RENTAL CONTAINER/CHASIS RENTAL Image: Contaminated Debris Seattle 1.00 CONTAINER/CHASIS RENTAL Image: Contaminated Debris Seattle Image: Contaminated Debris Image: Contaminated Debris Seattle 1.00 CONTAINER/CHASIS RENTAL Image: Contaminated Debris Seattle Image: Contaminated Debris Image: Contaminate Debris	SCAL	E OUT TARE WEIGHT 48,460					INBOUND	
28.00 YD TRACKING QTY 34.13 TN Contaminated Debris Seattle 1.00 CONTAINER/CHASIS RENTAL CONTAINER/CHASIS RENTAL The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer. NET AMOUNT		DESCRIPTION			RATE	EXTENSION	TAX	TOTAL
The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions Or the reverse side and that he or she has the authority to sign this document on behalf of the customer. CHECK#	34.13 TN	Contaminated Debris Seattle						
	The undersig on the revers	ned individual signing this document on behalf of Customer acknowledges these side and that he or she has the authority to sign this document on behalf of	nat he or she f the custome	e has read a er.	and understands the t	erms and condit	ions	TENDERED
	RS-F042UPR (07/12	2) SIGNA	TURE					CHECK#

TE Roosevelt Landfill 500 Roosevelt Grade Rd Roosevelt Wa, 99356 USTOMER 010385 Rhine Demolition LLC 1124-112th St. E. Tacoma, WA 98445 TB-12157	SITE 3A TICKET # 329052 CELL 240893 WEIGHMASTER Gail H. DATE/TIME OUT 03-02-2015 12:29 pm DATE/TIME OUT 03-2-2015 12:57 pm VEHICLE VO330 REFERENCE RBSU200329 Invoice BILL OF LADING BNSF231136 02/27/2015 0						
SCALE OUT	ET TONS WEIGHT	29.55 59,100	2	INBOUND			
QTV. UNIT DESCRIPTION 28.00 YD TRACKING QTY 29.55 TN Contaminated Debris Seattle 1.00 CONTAINER/CHASIS RENTAL		RATE	EXTENSION	TAX	TOTAL		
• •					NET AMOUNT		
The undersigned individual signing this document on behalf of Customer acknowledges that he or on the reverse side and that he or she has the authority to sign this document on behalf of the custors S-F042UPR (07/12) SIGNATURE _	r she has read and und tomer.	derstands the ter	ms and conditions		CHANGE CHECK#		

5 cocorrolt I condetil	SITE TICKET #
Recosevelt Landfill 500 Roosevelt Grade Rd	SITE TICKET # CELL 3A 329053 240887
Roosevelt Wa, 99356	WEIGHMASTER Gail H.
USTOMER 010385	
Rhine Demolition LLC	DATE/TIME IN 03-02-2015 12:35 pm DATE/TIME OUT 03-2-2015 1:01 pm
1124-112th St. E.	VEH325 TOLU453274
Tacoma, WA 98445	REFERENCE
TB-12157	INVOICE
	BNSF231136 02/27/2015 0
SCALE IN GROSS WEIGHT 103,500 SCALE OUT TARE WEICHT 45,700	NET TONS 28.87
SCALE OUT TARE WEIGHT 45,760	NET WEIGHT 57,740 INBOUND
QTY. UNIT DESCRIPTION	
28.00 YD TRACKING QTY	RATE EXTENSION TAX TOTAL
28.87 TN Contaminated Debris Seattle	
1.00 CONTAINER/CHASIS RENTAL	
	NET AMOUNT
	TENDERED
The undersigned individual signing this document on behalf of Customer acknowledges that	t he or she has read and understands the terms and conditions CHANGE
on the reverse side and that he or she has the authority to sign this document on behalf of the	ne customer.
RS-F042UPR (07/12) SIGNAT	CHECK#

TE	Landfill			(ET #		0511	
	evelt Grade Rd		SITE TICK	кет # 329055		240890	
			WEIGHMASTE	R			
USTOMER 010385	Wa, 99356		Gail H.				
			03-02-2	2015 12:	24 pm	DATE/TIME OUT 03-2-201	5 1:02 pm
	molition LLC		VEHICLE				
	th St. E. WA 98445					RBS02004	02
			REFERENCE				INVOICE
TB-1215			BILL OF LADIN	IG			INVOLCE
			BILL OF LADIN BNSF231	136	02/27/2	2015	0
	LE IN GROSS WEIGHT 89,700	NET	TONS	21.72			~
SCA.	LE OUT TARE WEIGHT 46,260	NET W	EIGHT	43,440		INBOU	
				10/110		TINDUU	ND
QTY. UNIT 28.00 YD	DESCRIPTION TRACKING QTY			RATE	EXTENSIO	N TAX	TOTAL
21.72 TN	\sim						
1.00	Contaminated Debris Seattle CONTAINER/CHASIS RENTAL						
	CONTRINER/CHASIS RENTAL						
						J	NET AMOUNT
							TENDERED
The unders on the reve	igned individual signing this document on behalf of Customer acknowledges the rse side and that he or she has the authority to sign this document on behalf of	at he or she the custome	has read and u r.	inderstands the te	rms and condi	tions	CHANGE
RS-F042UPR (07/	12) SIGNA	TURE					CHECK#

Recosevelt 500 Roosev Roosevelt STOMER 010385 Rhine Dem 1124-112t Tacoma, W TB-12157	velt Grad Wa, 993 nolition th St. E. WA 98445	de Rd 56 LLC 5			SITE TICH 3A WEIGHMASTE Gail H. DATE/TIME IN 03-02-2 VEHICLE 0332 REFERENCE BILL OF LADIN BNSF231	2015 12:	23 pm 03-		1:03 pm /OICE 0
SCAL] SCAL]	E IN E OUT	GROSS WEIGHT TARE WEIGHT	108,200 47,380		TONS VEIGHT	30.41 60,820]	NBOUND	
QTY. UNIT 28.00 YD 30.41 TN 1.00			Seattle	3		RATE	EXTENSION	TAX	TOTAL
The undersig	gned individual s se side and that	signing this document on behalf o he or she has the authority to sig	of Customer acknowledge n this document on beha	es that he or sh If of the custon	ne has read and i	understands the t	erms and conditions		NET AMOUNT TENDERED CHANGE

ITĘ	7.1	T ICLE					RITE	TIOKE			T		
		Landfil					SITE	HUCKE	329058		2408	91	
		velt Gra					WEIGHM Gail	ASTER			I		·····
USTOMER 0103	vert_	Wa, 993	56								1		
		-1111					DATE/TI 03-0	2-20	015 12:	48 pm	DATE/TIM 03-2-	-2015	1:11 pm
		olition h St. E					VEHICLE	;				6 0385	
		A 9844.					REFERE				IXB302	00385	
TB-1			-									IN	VOICE
							BILL OF BNSF	LADING 2310	56	02/27/	2015		0
	SCAL		GROSS W		93,540	NET	TONS		23.57				
	SCALI	E OUT	TARE W	EIGHT	46,400	NET W			47,140		ΤN	BOUND	
OTV	LINUT								,		± 1.4	DOOND	
QTY. 28.00	UNIT YD	TRACKI	NG OTY	DESC	RIPTION				RATE	EXTENSI	ON	TAX	TOTAL
23.57	TN		inated Deb	ris	Seattle								
1.00			NER/CHASIS		Deallie								
			,										
								-					
			2										NET AMOUNT
													TENDERED
The on f	undersig	ned individual se side and that	signing this docume he or she has the au	nt on behalf of C Ithority to sign tl	customer acknowledges t nis document on behalf o	hat he or she of the custome	has read er.	and un	derstands the t	erms and conc	litions		CHANGE
RS-F042UP	R (07/12)			CION	ATUDE							CHECK#
		/			SIGN	ATURE						\)

Roose	velt	Landfill									s
		elt Grade Rd				SITE TICK	329415		240894		
Roose	velt	Wa, 99356				WEIGHMASTER		L			
USTOMER 0103						Janice DATE/TIME IN 03-07-2		42 am 0	DATE/TIME OUT	5.	7:05 am
1124	-112t	olition LLC h St. E.				VEHICLE 6181		R	Container BSU20036		
		A 98445				REFERENCE				INVC	DICE
TB-1	2157					BINSPEZADIN	9 78	03/05/2	015		
	SCAL		WEIGHT	92,300	NET	TONS	23.08				
	DUAL	L OUI TARE	WEIGHT	46,140	NET WI	EIGHT	46,160		INBOU	ND	
QTY. 28.00	UNIT		DESCR	IPTION			RATE	EXTENSION	XAT J		TOTAL
23.00 23.08 1.00	YD TN	TRACKING QTY Contaminated E CONTAINER/CHAS		Seattle	2						
											NET AMOUNT
The	e undersig the revers	ned individual signing this doc e side and that he or she has th	ument on behalf of Cu ne authority to sign the	stomer acknowledge s document on behal	s that he or sh If of the custon	e has read and u ner.	nderstands the t	erms and condit	ions		CHANGE
RS-F042UF	PR (07/12)		SIG	NATURE	·····					CHECK#

Recovert Landfill	SITE	A 330047	24 1001	
500 Roosevelt Grade Rd Roosevelt Wa, 99356	WEIGH	HMASTER 11 H.	241001	
JSTOMER 010385 Rhine Demolition LLC	DATE/ 03-	ліме ін. -16-2015 7:	32 am 03-16-20	
1124-112th St. E. Tacoma, WA 98445	XEHIC 345 REFEF	RENCE	GCEU42593	33 INVOICE
TB-12157	BH3	DF 2 ADING 1 3	03/13/2015	INVOICE
SCALE IN GROSS WEIGHT 111,380 SCALE OUT TARE WEIGHT 48,540	NET TONS	0 1 . 12	INBOU	ND
OTY. UNIT DESCRIPTION 28.00 YD TRACKING QTY DESCRIPTION 31.42 TN Contaminated Debris Seattle 1.00 CONTAINER/CHASIS RENTAL		RATE	EXTENSION TAX	TOTAL
				NET AMOUNT
The undersigned individual signing this document on behalf of Customer acknowledges th on the reverse side and that he or she has the authority to sign this document on behalf of	at he or she has rea the customer.	ead and understands the t	erms and conditions	CHANGE
RS-F042UPR (07/12) SIGNA	TURE			CHECK#

TE					
Koosevelt Landfill	SITE A TICH	кет <u>3</u> 30083	(241000	
500 Roosevelt Grade Rd	WEIGHMASTE				
Roosevelt Wa, 99356	Gail H	•			
USTOMER 010385	DAJE/TIME_IN	2015 2:	04 pm 8	AJETIME_OUT15	2:23 pm
Rhine Demolition LLC 1124-112th St. E.	VENJCLE			ONTO 458607	
Tacoma, WA 98445				010438607	
TB-12157	REFERENCE			INV	VOICE
	BILL OF LADIE BNSF230	NG 38	03/13/2	015	0
	ET TONS	30.04	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
SCALE OUT TARE WEIGHT 48,000 NET	r weight	60,080		INBOUND	
QTY. UNIT DESCRIPTION		RATE	EXTENSION	TAX	TOTAL
28.00 YD TRACKING QTY					IOTAL
30.04 TN Contaminated Debris Seattle					
1.00 CONTAINER/CHASIS RENTAL					
)
					NET AMOUNT
					TENDERED
The undersigned individual signing this document on behalf of Customer acknowledges that he or on the reverse side and that he or she has the authority to sign this document on behalf of the cus	r she has read and । stomer.	understands the to	erms and conditi	ons	CHANGE
S-F042UPR (07/12) SIGNATURE _					CHECK#

posevelt Landfill 00 Roosevelt Grade Rd oosevelt Wa, 99356	SITE A TICKET #30084 241941 WEIGHMASTER Gail H.
TOMER 010385 Rhine Demolition LLC	Date/Time in 03-16-2015 Date/Time out 03-16-2015 Date/Time out 03-16-2015 <thdate out<br="" time="">03-16-2015 Date/Time out 03-16-2015 <thdate out<br="" time="">03-16-2015 <thdate o<="" td="" time=""></thdate></thdate></thdate>
1124-112th St. E. Tacoma, WA 98445	REFERENCE INVOICE
TB-12157	BINSTF24901G18 03/13/2015
SCALE OUT	ET TONS 27.91 WEIGHT 55,820 INBOUND
UNIT DESCRIPTION 28.00 YD TRACKING QTY 27.91 TN Contaminated Debris Seattle 1.00 CONTAINER/CHASIS RENTAL	RATE EXTENSION TAX TOTAL
The undersigned individual signing this document on behalf of Customer acknowledges that he on the reverse side and that he or she has the authority to sign this document on behalf of the c	e or she has read and understands the terms and conditions CHANGE CHECK#
-F042UPR (07/12) SIGNATURE	

Roosevelt Land	fill						,		
500 Roosevelt	Grade Rd		SITE	тіскет <u></u> 330085	25	10958			
Roosevelt Wa,	99356		WEIGHMASTER Gail H.						
JSTOMER 010385 Phine Demolit			BAJE/TIN	6-2015 2:	12 pm 0	TE/TIME OUT 3-16-2015	2:54 pr		
Rhine Demolit. 1124-112th St	. E.		VEHICLE 8648		TU420670				
Tacoma, WA 98 TB-12157	8445		REFEREN				VOICE		
MANUAL IN				NSUF28010671 03/13/2015					
SCALE OUT	n		TONS	33.53					
	TARE WEIGHT	46,340 NET W	EIGHT	67,060		INBOUND			
28.00 UNT TRA	CKING QTY DE	SCRIPTION		RATE	EXTENSION	TAX	TOTAL		
	taminated Debris TAINER/CHASIS RENTAI	Seattle					NET AMOUNT		
							TENDERED		
The undersigned indiv on the reverse side an	idual signing this document on behalf o d that he or she has the authority to sign	f Customer acknowledges that he or s n this document on behalf of the custo	he has read mer.	and understands the t	terms and conditio	ns	CHANGE		
RS-F042UPR (07/12)		SIGNATURE				Į.	CHECK#		



APPENDIX J

Site Assessment Checklist



SITE CHECK/SITE ASSESSMENT CHECKLIST Courses FOR UNDERGROUND STORAGE TANKS

County: _____

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

I. UST FACILITY	II. OWNER/OPERATOR INFORMATION
Facility Compliance Tag #: $ u/A $	Owner/Operator Name: Dan Jenhins
UST ID #: N/A	Business Name: NCD Georgetown, LLC
Site Name: New Core Development LLC	Address: 1112 Rainier Ave S.
Site Address: 5400 Airport Way S.	City: Seattle State: WA Zip: 98178
City: Scattle, WA	Phone: 206-679-8568
Phone:	Email: dan @ New core development. com
III. CERTIFIED	SITE ASSESSOR
Service Provider Name: Nathan Moxley	Company Name: Amer Foster Wheeler
Cell Phone: Email: Mathan. Moxley@ amec.fw.com	Address: 600 University St., Suite 600
Certification #: 8198685 Exp. Date: 3/15/15	
IV. TANK I	NFORMATION
ΤΑΝΚ ID ΤΑΝΚ CAPACITY	LAST SUBSTANCE STORED DATE SITE CHECK OR ASSESSMENT CONDUCTED
N/A ~ 500 gal.	Unhnown 3/11/2015
V. REASON FOR CONDUCTING SITE	CHECK/SITE ASSESSMENT (check one)
Release investigation following permanent UST system	n closure (i.e. tank removal or closure-in-place).
Release investigation following a failed tank and/or lin	e tightness test.
Release investigation following discovery of contamination	ated soil and/or groundwater.
Release investigation directed by Ecology to determine	e if the UST system is the source of offsite impacts.
UST system is undergoing a "change-in-service", which gasoline) to storing a non-regulated substance (e.g. wa	
Directed by Ecology for UST system permanently close	d or abandoned before 12/22/1988.
□ Other (describe):	

VI. CHECKLIST			
The site assessor must check each of the following items and include it Sections referenced below can be found in the Ecology publica Guidance for Site Checks and Site Assessments for Underground Stor	ation	YES	NO
1. The location of the UST site is shown on a vicinity map.		X	
2. A brief summary of information obtained during the site inspection is provided (Section 3.2)	X	
3. A summary of UST system data is provided (Section 3.1)		X	
4. The soils characteristics at the UST site are described. (Section 5.2)		X	
5. Is there any apparent groundwater in the tank excavation?		X	
6. A brief description of the surrounding land use is provided. (Section 3.1)		X	
7. The name and address of the laboratory used to perform analyses is provided. T collect and analyze the samples, including the number and types of samples colle documented in the report. The data from the laboratory is appended to the rep	ected, are also	X	
8. The following items are provided in one or more sketches:	······································		
Location and ID number for all field samples collected		X	
If applicable, groundwater samples are distinguished from soil samples	N/A		
Location of samples collected from stockpiled excavated soil	NA		
Tank and piping locations and limits of excavation pit		X	
Adjacent structures and streets		X	
Approximate locations of any on-site and nearby utilities	NA		
9. If sampling procedures are different from those specified in the guidance, has just alternative sampling procedures been provided? (Section 3.4)	stification for using these		
10. A table is provided showing laboratory results for each sample collected includin constituents analyzed for and corresponding concentration, analytical method, a that method. Any sample exceeding MTCA Method A cleanup standards are high	ind detection limit for	X	
11. Any factors that may have compromised the quality of the data or validity of the	results are described.	X	
12. The results of this site check/site assessment indicate that a confirmed release or has occurred. The requirements for reporting confirmed releases can be found ir	f a regulated substance 1 WAC 173-360-372.	X	
VII. REQUIRED SIGNATURES	I		
Signature acknowledges the Site Check or Site Assessment complies with UST regulation	s WAC 173-360-360 through -:	395.	
Nathan Moxley North May	3/14	lis	-
Print or Type Name / Signature of Certified Site Assessor	Date		

.