

**PETROLEUM CONTAMINATED SOIL
REMOVAL ACTION REPORT
POINT ROBERTS MARINA RESORT
713 SIMUNDSON DR.
POINT ROBERTS, WASHINGTON**

prepared for:

Point Roberts Marina Resort
713 Simundson Dr.
Point Roberts, WA 98281

July 18, 2016



*soil | water | air
compliance consulting*

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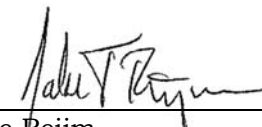
Whatcom Environmental Services
228 East Champion Street #101
Bellingham, Washington 98225

July 18, 2016



Harold Cashman
Project Manager



Jake Reijm
QA/QC Reviewer

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1.0 INTRODUCTION

Whatcom Environmental Services Inc. has completed a Petroleum Contaminated Soil (PCS) removal action conducted at 713 Simundson Dr. in Point Roberts, Washington (Point Roberts Marina Resort). The site location is shown on Figure 1.

An underground storage tank (UST) system consisting of 2 tanks (one 15,000-gallon gasoline tank, and one 15,000-gallon diesel tank) was removed at the subject property as part of a system upgrade for a property transaction. The tanks were decommissioned and removed from the ground by Ultra Tank Services on April 14, 2016. Whatcom Environmental Services personnel were onsite during tank removal activities to conduct a UST Site Assessment. Soil samples were collected in accordance with the Washington State Department of Ecology (Ecology) UST Site Assessment guidance standards (Ecology, 2003). The UST site assessment report titled *Underground Storage Tank Site Assessment at Closure: Point Roberts Marina, 713 Simundson Dr., Point Roberts, Washington, 98281* was submitted to Ecology on May 27, 2016.

During the tank decommissioning, field screening indicated that a petroleum release had occurred to shallow soil below and to the south of the removed tanks. A soil sample was collected, and laboratory analytical results confirmed that a release of petroleum products had occurred to soil in the southern portion of the tank pit. The release was reported to Ecology (ERTS #664451).

A petroleum contaminated soil (PCS) removal action was conducted following removal of the tanks in an effort to remediate the site. Approximately 1,300 tons of soil were removed from the site and bioremediated at an adjacent property owned by the Point Roberts Marina Resort. A separate report will be submitted to Ecology when the remediation of all PCS removed from the tank pit has been completed.

Clean confirmation soil samples were collected from the floor and sidewalls of the tank pit excavation to document the success of the PCS removal action. Soil sample analytical results indicated that all PCS has been removed from the site and that the soil remaining at the site meets the Model Toxics Control Act (MTCA) Method A criteria.

2.0 SITE SETTING

The PCS Removal Action was conducted at the Point Roberts Marina Resort located at 713 Simundson Dr., Point Roberts, Washington (tax parcel #0306417). The property is zoned by Whatcom County as Rural Community. Surrounding land use is mixed commercial and residential. The site location is shown on Figure 1.

The median elevation of the site is approximately 15 feet above mean sea level. The site topography is generally flat. The property is covered by an asphalt parking lot; grassy fields; a multi-tenant building with retail shops, restaurants, and offices; and a canopy for boat storage.

Soils in the vicinity of the UST are described in the Soil Survey of Whatcom County Area, Washington (USDA, 2013). Soils at the property are the Whitehorn silt loams. The soils formed on 0 to 2 percent slopes. The average annual precipitation is 30 to 40 inches, the average annual temperature is 48 to 52°F, and the average frost-free period is 160 to 200 days. The Whitehorn soil is poorly drained. It formed in a mixture of loess, volcanic ash, and glaciofluvial deposits over glaciomarine deposits. Permeability in the Whitehorn soil is moderately low to moderately high.

The depth to water at the site appeared to be approximately 12 feet below ground surface, and influenced by the tidal fluctuation of the nearby bay. Water was pumped from the tank pit into a Baker tank stored onsite. Approximately 21,000 gallons of water were removed from the excavation to allow for the removal of PCS and installation of the new UST system. Water was treated onsite with a water stripper and discharged into the storm water catch basins per a Whatcom County permit obtained by the contractor.

3.0 SELECTION OF CLEANUP STANDARDS

The soil cleanup levels for the site were established for unrestricted land use in accordance with WAC 173-340-740. MTCA Method A target cleanup levels are provided in WAC 173-340, Table 740-1. Cleanup levels for the subject property were developed using the standard Method A approach so that at the completion of the project soil at the site met the MTCA Method A unrestricted land use cleanup criteria.

4.0 TANK CLOSURE

Mr. Jake Reijm of Whatcom Environmental Services observed the removal of the USTs from the subject property on April 14, 2016. Mr. Reijm is a registered underground storage tank site assessor. Ultra-Tank Services provided the tank decommissioning services during the UST removal.

The two tanks were located in a single excavation located northeast of the building. The tanks were overlain by asphalt and approximately 2 feet of sand overburden and were bedded in native silty loam. The tanks were protected by a cathodic protection system observed around the perimeter of the tank pit. The product lines were single-wall fiberglass and the product was delivered to the dispensers at the fueling dock located to the east in the Marina using a pressurized system. Product lines were removed and replaced between the tank pit and the fuel sump located adjacent to the fuel dock access ramp. A total of 47 feet of product piping were removed and replaced as part of the UST system replacement.

A separate report summarizing the UST system removal titled: *Underground Storage Tank Site Assessment at Closure: Point Roberts Marina, 713 Simundson Dr., Point Roberts, Washington* was submitted to Ecology on May 27, 2016.

5.0 PETROLEUM CONTAMINATED SOIL REMOVAL ACTION

Based on the field screening observations and laboratory results of the UST Site Assessment soil samples, a PCS removal action was initiated at the site on April 14, 2016 and completed on April 29, 2016. Ultra-Tank Services conducted the PCS removal action. Whatcom Environmental Services personnel were onsite during the PCS removal work to field screen excavated soil. The soil samples were field screened for indications of petroleum contamination by conducting head space analyses for organic vapors using a PID and by conducting sheen tests. The organic vapor headspace analyses were conducted using a Mini Rae 3000 PID equipped with a 10.6 eV lamp.

The PCS removal work began at the northern edge of the tank pit and progressed downwards to find the depth of the contamination. The contamination extended to approximately 12 feet bgs, where further migration was impeded by a 2-foot-thick concrete slab. The concrete slab was removed from the floor of the excavation on April 29, 2016 and floor samples were collected from below the removed slab to document that no PCS extended below the slab. PCS removal continued to the south as the PCS extended primarily to the south of the tank pit. Field screening was used to guide the excavation of PCS from areas where organic vapor and sheen indications indicated the presence of petroleum contamination. The final excavation was approximately 50 feet long by 40 feet wide by an average of 14 feet deep. The excavation location is shown on Figure 2.

All excavated PCS was hauled to the Marina property located to the northeast across Simundson Rd to be bioremediated via land treatment under a Fill and Grade Permit issued by Whatcom County. A separate report will be submitted to Ecology when the remediation of all PCS removed from the tank pit has been completed.

5.1 FINAL EXCAVATION SOIL SAMPLE COLLECTION AND ANALYSIS

When a particular sidewall or section of the excavation floor appeared to be no longer impacted by petroleum compounds, clean confirmation soil samples were collected for laboratory analyses. Thirteen clean confirmational soil samples were collected from the floor and sidewalls of the excavation to document the effectiveness of

the remedial action. The clean confirmational samples were identified as SS-1 through SS-13. Each soil sample was described in general accordance with ASTM D2487 and recorded in a field notebook. The excavation extent and approximate soil sample locations are shown on Figure 2.

All soil samples were collected as discrete samples using Method 5035A and placed in clean containers provided by the lab. The soil samples were collected using stainless steel sampling equipment. The tools were washed in accordance with good industry practices using Alconox detergent and rinsed with distilled water prior to sample collection. Each sample was placed in a sample container provided by the lab, stored in a cooler with ice, and shipped to ALS Laboratory Group in Everett, Washington. ALS is accredited with Ecology. Strict chain of custody and QA/QC protocols were followed for each sample.

Clean confirmational soil samples collected from the site were analyzed for volatile (gasoline) range total petroleum hydrocarbons (TPH) using Method NWTPH-Gx; diesel and oil range TPH using Method NWTPH-Dx; benzene, toluene, ethylbenzene, and total xylenes (BTEX); and methyl tert-butyl ether (MTBE) using EPA Method 8021. Select samples were also analyzed for lead using EPA Method 6020.

5.2 FINAL EXCAVATION SOIL SAMPLE RESULTS

Thirteen clean confirmational soil samples were collected from the final excavation. The soil samples were identified as SS-1 through SS-13. Soil sample locations are shown on Figure 2. Soil sample descriptions, sample dates, sample depths, and field screening results are included in Table 1. Laboratory analytical results are summarized in Table 2. The original soil sample laboratory analytical data reports are included in Appendix A.

All clean confirmational soil samples met the MTCA Method A target cleanup levels for volatile range TPH, diesel and oil range TPH, BTEX constituents, MTBE and lead (Table 2).

6.0 CONCLUSIONS

A PCS Removal Action has been completed at the Point Roberts Marina Resort located at 713 Simundson Dr. in Point Roberts, Washington. The PCS removal action occurred between April 14 and April 29, 2016. Approximately 1,300 tons of PCS were excavated and removed from the subject property for offsite bioremediation via land treatment. Clean confirmation soil samples collected from the site were analyzed for volatile, diesel, and oil range TPH, BTEX constituents, MTBE, and lead.

The cleanup goals for the site were set such that at the completion of the project the petroleum constituent concentrations remaining in soil met the MTCA Method A target cleanup levels for unrestricted land use.

Please use this report and the attached site location figures, and soil analytical data to document the successful removal of PCS from the subject property.

7.0 LIMITATIONS

No site assessment can wholly eliminate uncertainty regarding the potential for contamination in connection with a property. The interpretation of soil and groundwater conditions is based on field observations and chemical analytical data collected from relatively widely spaced sampling locations at the site. It is possible that contamination exists beneath portions of the site that were not explored, sampled, or analyzed. No warranty, express or implied, is given regarding the presence of hidden or unidentified sources of contamination of the subject property. Performance of this investigation by Whatcom Environmental is intended to reduce, but not eliminate, uncertainty regarding the potential for environmental contamination in connection with the subject property. In addition, no warranty, express or implied is given regarding geotechnical or geologic hazards.

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

Whatcom Environmental Services has prepared this report for the exclusive use of the Point Roberts Marina Resort, their authorized agents, and regulatory agencies. Whatcom Environmental prepares a report for the client's exclusive use for a particular project and in accordance with generally accepted practices at the time of investigation. This report was prepared for exclusive use by the client and its authorized agents and may not be used, relied upon, or assigned to a third party without written consent from Whatcom Environmental Services. This report is not intended for use by others, and the information contained herein is not applicable to other sites. This report may be made available to regulatory agencies.

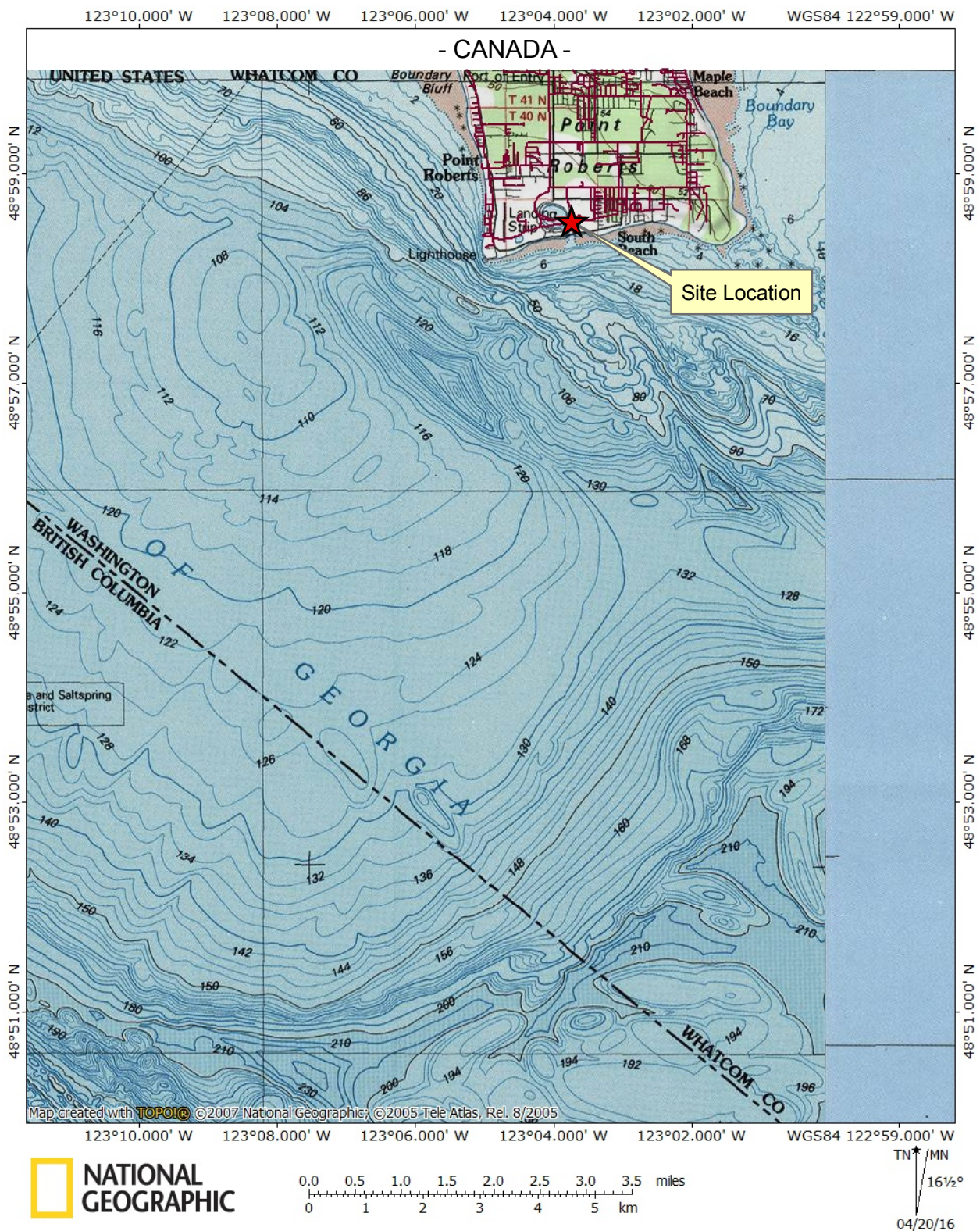
8.0 REFERENCES

U.S. Department of Agriculture (USDA). 2013. Soil Survey of Whatcom County Area, Washington. Soil Conservation Service.

Washington State Department of Ecology (Ecology). 2007. Model Toxics Control Act Cleanup Regulation Chapter 173-340 WAC. Publication No. 94-06.

Washington State Department of Ecology. 2016. Guidance for Remediation of Petroleum Contaminated Sites. Publication No. 10-09-057.

Whatcom Environmental Services. May 27, 2016. RE: Underground Storage Tank Site Assessment at Closure: Point Roberts Marina, 713 Simundson Dr., Point Roberts, Washington.



Prepared for:

Point Roberts
Marina Resort

Prepared by:

nwhatcom
ENVIRONMENTAL

Site Location Map

Point Roberts
Marina UST
4/20/16

Figure 1



Fuel Sump



Confirmation Soil Samples

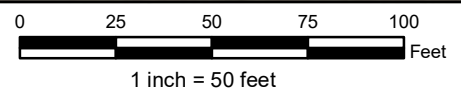


Replaced Product Lines



Tank Pit Excavation

All data are approximate and should be used for relative location reference only. 2013 Aerial Photograph (COB).



Prepared for:

Point Roberts
Marina Resort

Prepared by:

nwhatcom
ENVIRONMENTAL

Soil Sample Location Map

Point Roberts
Marina UST

6/23/16

Figure 2

Table 1. Soil Sample Descriptions - Point Roberts Marina PCS Removal Action

Sample ID	Date	Location and Description	PID (ppm)	Sheen Test*
SS-1	4/14/16	Collected from the northern excavation sidewall, at 9 feet bgs. Sand with gravel, gray, loose, moist.	1.2	NS
SS-2	4/14/16	Collected from the eastern excavation sidewall, at 7.5 feet bgs. Sand with minor gravel, gray, loose, moist.	2.5	NS
SS-3	4/19/16	Collected from the eastern excavation sidewall, at 8 feet bgs. Course sand, gray, loose, moist to moist.	1.5	NS
SS-4	4/19/16	Collected from the northern excavation sidewall, at 8 feet bgs. Course sandy gravel, gray, loose, moist.	4	VSS
SS-5	4/21/16	Collected from the western excavation sidewall, at 8 feet bgs. Sand with minor gravel, brown, loose, moist.	0.5	NS
SS-6	4/21/16	Collected from the southwestern excavation sidewall, at 9 feet bgs. Sand with minor gravel, brown, loose, moist.	0.5	NS
SS-7	4/21/16	Collected from the southeastern excavation sidewall, at 10 feet bgs. Course sand with minor gravel, gray, loose, moist.	5	NS
SS-8	4/21/16	Collected from the western excavation sidewall, at 7.5 feet bgs. Sand, brown, loose, moist.	0	NS
SS-9	5/19/16	Collected from below removed section of product piping running from the tank pit to the sump located at the fuel dock access ramp at 3 feet bgs. Sand with minor gravel, brown, loose, moist.	1	NS
SS-10	4/29/16	Collected from the floor of the excavation from below the removed slab, at 14 feet bgs. Course sand with trace gravel, gray, loose, wet.	3	NS
SS-11	4/29/16	Collected from the floor of the excavation from below the removed slab, at 14 feet bgs. Medium to course sand with minor silt, gray, loose, wet.	0.3	NS
SS-12	4/29/16	Collected from the floor of the excavation from below the removed slab, at 14 feet bgs. Course sand and gravel, gray, loose, wet.	0.1	NS
SS-13	4/29/16	Collected from the floor of the excavation from below the removed slab, at 14 feet bgs. Course sand with gravel, gray, loose, wet.	1.3	NS

* NS = No Sheen; VSS = Very Slight Sheen; SS = Slight Sheen; MS = Moderate Sheen; HS = Heavy Sheen

All samples collected using EPA Method 5035A

Table 2. Soil Sample Analytical Results - Point Roberts Marina PCS Removal Action

Sample ID	Date	NWTPH-Gx Volatile Range mg/kg	NWTPH-Dx Diesel Range mg/kg	NWTPH-Dx Oil Range mg/kg	EPA-8021 Benzene mg/kg	EPA-8021 Toluene mg/kg	EPA-8021 Ethylbenzene mg/kg	EPA-8021 Xylenes mg/kg	EPA-8021 MTBE mg/kg	EPA-6020 Lead mg/kg
MTCA Method A Cleanup Levels:		30/100*	2,000	2,000	0.03	7	6	9	0.1	250
SS-1	4/14/2016	ND(<3)	ND(<25)	ND(<50)	ND(<0.03)	ND(<0.05)	ND(<0.05)	ND(<0.2)	ND(<0.1)	NA
SS-2	4/14/2016	ND(<3)	ND(<25)	ND(<50)	ND(<0.03)	ND(<0.05)	ND(<0.05)	ND(<0.2)	ND(<0.1)	NA
SS-3	4/19/2016	4.2	ND(<25)	ND(<50)	ND(<0.03)	ND(<0.05)	ND(<0.05)	ND(<0.2)	ND(<0.1)	1.9
SS-4	4/19/2016	ND(<3)	ND(<25)	ND(<50)	ND(<0.03)	ND(<0.05)	ND(<0.05)	ND(<0.2)	ND(<0.1)	NA
SS-5	4/21/2016	ND(<3)	ND(<25)	ND(<50)	ND(<0.03)	ND(<0.05)	ND(<0.05)	ND(<0.2)	ND(<0.1)	NA
SS-6	4/21/2016	ND(<3)	ND(<25)	ND(<50)	ND(<0.03)	ND(<0.05)	ND(<0.05)	ND(<0.2)	ND(<0.1)	NA
SS-7	4/21/2016	4.9	ND(<25)	ND(<50)	ND(<0.03)	ND(<0.05)	0.22	0.22	ND(<0.1)	1.6
SS-8	4/21/2016	ND(<3)	ND(<25)	ND(<50)	ND(<0.03)	ND(<0.05)	ND(<0.05)	ND(<0.2)	ND(<0.1)	NA
SS-9	5/19/2016	ND(<3)	120	ND(<50)	ND(<0.03)	ND(<0.05)	ND(<0.05)	ND(<0.2)	ND(<0.1)	2
SS-10	4/29/2016	ND(<3)	ND(<25)	ND(<50)	ND(<0.03)	ND(<0.05)	ND(<0.05)	ND(<0.2)	ND(<0.1)	NA
SS-11	4/29/2016	ND(<3)	ND(<25)	ND(<50)	ND(<0.03)	ND(<0.05)	ND(<0.05)	ND(<0.2)	ND(<0.1)	1.6
SS-12	4/29/2016	ND(<3)	ND(<25)	ND(<50)	ND(<0.03)	ND(<0.05)	ND(<0.05)	ND(<0.2)	ND(<0.1)	NA
SS-13	4/29/2016	ND(<3)	ND(<25)	ND(<50)	ND(<0.03)	ND(<0.05)	ND(<0.05)	ND(<0.2)	ND(<0.1)	NA

* Cleanup level dependent on BTEX concentration

ND- indicates analyte was not detected at level above reporting limit (shown in parentheses)

APPENDIX A

Original Soil Laboratory Analytical Data



April 15, 2016

Mr. Harold Cashman
Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

Dear Mr. Cashman,

On April 15th, 2 samples were received by our laboratory and assigned our laboratory project number EV16040094. The project was identified as your Point Roberts Marina UST. The sample identification and requested analyses are outlined on the attached chain of custody record.

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

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

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	4/15/2016
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	EV16040094
CLIENT PROJECT:	Point Roberts Marina UST	ALS SAMPLE#:	EV16040094-01
CLIENT SAMPLE ID	SS-1	DATE RECEIVED:	04/15/2016
		COLLECTION DATE:	4/14/2016 3:45:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	04/15/2016	PAB
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	04/15/2016	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	04/15/2016	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	04/15/2016	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	04/15/2016	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	04/15/2016	PAB
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	04/15/2016	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	04/15/2016	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	40.4 GS1	04/15/2016	PAB
TFT	EPA-8021	39.6 GS1	04/15/2016	PAB
C25	NWTPH-DX	104	04/15/2016	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
GS1 - Surrogate outside of control limits due to matrix effect.

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	4/15/2016
		ALS JOB#:	EV16040094
CLIENT CONTACT:	Harold Cashman	ALS SAMPLE#:	EV16040094-02
CLIENT PROJECT:	Point Roberts Marina UST	DATE RECEIVED:	04/15/2016
CLIENT SAMPLE ID	SS-2	COLLECTION DATE:	4/14/2016 4:00:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	04/15/2016	PAB
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	04/15/2016	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	04/15/2016	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	04/15/2016	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	04/15/2016	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	04/15/2016	PAB
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	04/15/2016	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	04/15/2016	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	41.6 GS1	04/15/2016	PAB
TFT	EPA-8021	40.0 GS1	04/15/2016	PAB
C25	NWTPH-DX	98.0	04/15/2016	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
GS1 - Surrogate outside of control limits due to matrix effect.



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 4/15/2016
ALS SDG#: EV16040094
WDOE ACCREDITATION: C601

CLIENT CONTACT: Harold Cashman
CLIENT PROJECT: Point Roberts Marina UST

LABORATORY BLANK RESULTS

MBG-041116S - Batch 103179 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	04/11/2016	PAB

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

MB-041116S - Batch 103179 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Methyl T-Butyl Ether	EPA-8021	U	MG/KG	0.10	04/11/2016	PAB
Benzene	EPA-8021	U	MG/KG	0.030	04/11/2016	PAB
Toluene	EPA-8021	U	MG/KG	0.050	04/11/2016	PAB
Ethylbenzene	EPA-8021	U	MG/KG	0.050	04/11/2016	PAB
Xylenes	EPA-8021	U	MG/KG	0.20	04/11/2016	PAB

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

MB-041416S - Batch 103303 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	MG/KG	25	04/14/2016	EBS
TPH-Oil Range	NWTPH-DX	U	MG/KG	50	04/14/2016	EBS

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



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 4/15/2016
ALS SDG#: EV16040094
WDOE ACCREDITATION: C601

CLIENT CONTACT: Harold Cashman
CLIENT PROJECT: Point Roberts Marina UST

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 103179 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	91.6			66.5	122.7	04/11/2016	PAB
TPH-Volatile Range - BSD	NWTPH-GX	94.3	3		66.5	122.7	04/11/2016	PAB

ALS Test Batch ID: 103179 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Methyl T-Butyl Ether - BS	EPA-8021	94.5			66	116	04/11/2016	PAB
Methyl T-Butyl Ether - BSD	EPA-8021	94.1	0		66	116	04/11/2016	PAB
Benzene - BS	EPA-8021	92.7			67.7	124	04/11/2016	PAB
Benzene - BSD	EPA-8021	93.4	1		67.7	124	04/11/2016	PAB
Toluene - BS	EPA-8021	97.8			71	123	04/11/2016	PAB
Toluene - BSD	EPA-8021	97.8	0		71	123	04/11/2016	PAB
Ethylbenzene - BS	EPA-8021	100			69.8	117	04/11/2016	PAB
Ethylbenzene - BSD	EPA-8021	99.9	0		69.8	117	04/11/2016	PAB
Xylenes - BS	EPA-8021	98.0			70	119	04/11/2016	PAB
Xylenes - BSD	EPA-8021	98.3	0		70	119	04/11/2016	PAB

ALS Test Batch ID: 103303 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Diesel Range - BS	NWTPH-DX	93.7			75.5	122.1	04/14/2016	EBS
TPH-Diesel Range - BSD	NWTPH-DX	103	9		75.5	122.1	04/14/2016	EBS

APPROVED BY

Laboratory Director



ALS Job# (Laboratory Use Only)

Everett, WA 98208
Phone (425) 356-2600
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<http://www.alsglobalba>

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EV16040094

<http://www.aissglobal.com>

ANALYSIS REQUESTED	NW/TPH-HCID	
	NW/TPH-DX	
	NW/TPH-GX	
	BTEX by EPA-8021	
	MTBE by EPA-8021 <input checked="" type="checkbox"/> EPA-8260 <input type="checkbox"/>	
	Halogenated Volatiles by EPA 8260	
	Volatile Organic Compounds by EPA 8260	
	EDB / EDC by EPA 8260 SIM (water)	
	EDB / EDC by EPA 8260 (soil)	
	Semivolatile Organic Compounds by EPA 8270	
OTHER (Specify)	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM <input type="checkbox"/>	
	PCB <input type="checkbox"/> Pesticides <input type="checkbox"/> by EPA 8081/8082	
	Metals-MTCA-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> PFI Pol <input type="checkbox"/> TAL <input type="checkbox"/>	
	Metals Other (Specify)	
	TCLP-Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Herbs <input type="checkbox"/>	
NUMBER OF CONTAINERS		
RECEIVED IN GOOD CONDITION?		

[illegible]

10. SPECIAL INSTRUCTIONS Votes filled via S035

SIGNATURES (Name, ~~Company~~ Date, Time):

1. Relinquished By: Patrick WES, 4/15/16 9:30AM

Received By: Shawn Robison ALS 4/15/16 10:30

2. Relinquished By: _____

Received By: _____

TURNAROUND REQUESTED in Business Days*
OTHER: Organic, Metals & Inorganic Analysis

Specify: _____

Fuels & Hydrocarbon Analysis

SAME DAY

*Turnaround request less than standard may incur Bush Charges



April 20, 2016

Mr. Harold Cashman
Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

Dear Mr. Cashman,

On April 20th, 2 samples were received by our laboratory and assigned our laboratory project number EV16040116. The project was identified as your Point Roberts Marina UST. The sample identification and requested analyses are outlined on the attached chain of custody record.

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

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

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director

**CERTIFICATE OF ANALYSIS**

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 4/20/2016

ALS JOB#: EV16040116

ALS SAMPLE#: EV16040116-01

CLIENT CONTACT: Harold Cashman

DATE RECEIVED: 04/20/2016

CLIENT PROJECT: Point Roberts Marina UST

COLLECTION DATE: 4/19/2016 12:45:00 PM

CLIENT SAMPLE ID SS-3

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	4.2	3.0	1	MG/KG	04/20/2016	PAB
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	04/20/2016	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	04/20/2016	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	04/20/2016	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	04/20/2016	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	04/20/2016	PAB
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	04/20/2016	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	04/20/2016	EBS
Lead	EPA-6020	1.9	0.50	5	MG/KG	04/20/2016	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	96.7	04/20/2016	PAB
TFT	EPA-8021	96.2	04/20/2016	PAB
C25	NWTPH-DX	97.0	04/20/2016	EBS

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

Chromatogram indicates that it is likely that sample contains an unidentified gasoline range product.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	4/20/2016
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	EV16040116
CLIENT PROJECT:	Point Roberts Marina UST	ALS SAMPLE#:	EV16040116-02
CLIENT SAMPLE ID	SS-4	DATE RECEIVED:	04/20/2016
		COLLECTION DATE:	4/19/2016 2:00:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	04/20/2016	PAB
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	04/20/2016	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	04/20/2016	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	04/20/2016	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	04/20/2016	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	04/20/2016	PAB
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	04/20/2016	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	04/20/2016	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	96.5	04/20/2016	PAB
TFT	EPA-8021	94.3	04/20/2016	PAB
C25	NWTPH-DX	95.1	04/20/2016	EBS

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



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225
DATE: 4/20/2016
ALS SDG#: EV16040116
WDOE ACCREDITATION: C601

CLIENT CONTACT: Harold Cashman
CLIENT PROJECT: Point Roberts Marina UST

LABORATORY BLANK RESULTS

MBG-041516S2 - Batch 103375 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	04/15/2016	PAB

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

MB-041516S2 - Batch 103375 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Methyl T-Butyl Ether	EPA-8021	U	MG/KG	0.10	04/15/2016	PAB
Benzene	EPA-8021	U	MG/KG	0.030	04/15/2016	PAB
Toluene	EPA-8021	U	MG/KG	0.050	04/15/2016	PAB
Ethylbenzene	EPA-8021	U	MG/KG	0.050	04/15/2016	PAB
Xylenes	EPA-8021	U	MG/KG	0.20	04/15/2016	PAB

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

MB-042016S - Batch 103449 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	MG/KG	25	04/20/2016	EBS
TPH-Oil Range	NWTPH-DX	U	MG/KG	50	04/20/2016	EBS

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

MB-042016S - Batch 103448 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Lead	EPA-6020	U	MG/KG	0.10	04/20/2016	RAL

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



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc. DATE: 4/20/2016
228 E. Champion St., Suite 101 ALS SDG#: EV16040116
Bellingham, WA 98225 WDOE ACCREDITATION: C601

CLIENT CONTACT: Harold Cashman
CLIENT PROJECT: Point Roberts Marina UST

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 103375 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	95.4			66.5	122.7	04/15/2016	PAB
TPH-Volatile Range - BSD	NWTPH-GX	94.2	1		66.5	122.7	04/15/2016	PAB

ALS Test Batch ID: 103375 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Methyl T-Butyl Ether - BS	EPA-8021	87.7			66	116	04/15/2016	PAB
Methyl T-Butyl Ether - BSD	EPA-8021	87.2	1		66	116	04/15/2016	PAB
Benzene - BS	EPA-8021	88.3			67.7	124	04/15/2016	PAB
Benzene - BSD	EPA-8021	88.2	0		67.7	124	04/15/2016	PAB
Toluene - BS	EPA-8021	94.6			71	123	04/15/2016	PAB
Toluene - BSD	EPA-8021	94.3	0		71	123	04/15/2016	PAB
Ethylbenzene - BS	EPA-8021	94.6			69.8	117	04/15/2016	PAB
Ethylbenzene - BSD	EPA-8021	94.7	0		69.8	117	04/15/2016	PAB
Xylenes - BS	EPA-8021	92.9			70	119	04/15/2016	PAB
Xylenes - BSD	EPA-8021	92.8	0		70	119	04/15/2016	PAB

ALS Test Batch ID: 103449 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Diesel Range - BS	NWTPH-DX	107			75.5	122.1	04/20/2016	EBS
TPH-Diesel Range - BSD	NWTPH-DX	99.3	8		75.5	122.1	04/20/2016	EBS

ALS Test Batch ID: 103448 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Lead - BS	EPA-6020	103			80	120	04/20/2016	RAL
Lead - BSD	EPA-6020	102	0		80	120	04/20/2016	RAL

APPROVED BY

Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV16040116

Date 4/19/16 Page 1 Of 1

PROJECT ID: Point Roberts Marine JST				ANALYSIS REQUESTED										OTHER (Specify)									
REPORT TO COMPANY:	PROJECT MANAGER:	ADDRESS:	PHONE:	PO. #:	INVOICE TO COMPANY:	ATTENTION:	ADDRESS:	NMTPH-HCID	NMTPH-DX	NMTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM	PCB Pesticides by EPA 8081/8082	Metals-MTCA-5 RCRA-8 TAL	Metals Other (Specify)	TCLP-Metals VOA Semi-Vol Pest Herbs	
1.	SS-3	4/19/16 12:45	SOIL 1						X	X	X	X											
2.	SS-4	4/19/16 2:00	SOIL 2						X	X	X	X											
3.																							
4.																							
5.																							
6.																							
7.																							
8.																							
9.																							
10.																							

SPECIAL INSTRUCTIONS VOA's filled via S035A

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Shawn Roberts, WTS, 4/19/16 4:30 PM
Received By: Shawn Roberts, AS 4/20/16 10:30

2. Relinquished By:

Received By:

TURNAROUND REQUESTED IN BUSINESS DAYS*
Organic, Metals & Inorganic Analysis

Specify: 10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

*Turnaround request less than standard may incur Rush Charges



April 25, 2016

Mr. Harold Cashman
Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

Dear Mr. Cashman,

On April 22nd, 4 samples were received by our laboratory and assigned our laboratory project number EV16040140. The project was identified as your Point Roberts Marina UST. The sample identification and requested analyses are outlined on the attached chain of custody record.

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

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

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director

**CERTIFICATE OF ANALYSIS**

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 4/25/2016

ALS JOB#: EV16040140

ALS SAMPLE#: EV16040140-01

CLIENT CONTACT: Harold Cashman
CLIENT PROJECT: Point Roberts Marina UST
CLIENT SAMPLE ID: SS-5

DATE RECEIVED: 04/22/2016

COLLECTION DATE: 4/21/2016 9:30:00 AM

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	04/22/2016	PAB
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	04/22/2016	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	04/22/2016	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	04/22/2016	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	04/22/2016	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	04/22/2016	PAB
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	04/22/2016	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	04/22/2016	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	99.9	04/22/2016	PAB
TFT	EPA-8021	110	04/22/2016	PAB
C25	NWTPH-DX	82.0	04/22/2016	EBS

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



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	4/25/2016
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	EV16040140
CLIENT PROJECT:	Point Roberts Marina UST	ALS SAMPLE#:	EV16040140-02
CLIENT SAMPLE ID	SS-6	DATE RECEIVED:	04/22/2016
		COLLECTION DATE:	4/21/2016 9:45:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	04/22/2016	PAB
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	04/22/2016	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	04/22/2016	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	04/22/2016	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	04/22/2016	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	04/22/2016	PAB
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	04/22/2016	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	04/22/2016	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	93.0	04/22/2016	PAB
TFT	EPA-8021	105	04/22/2016	PAB
C25	NWTPH-DX	88.5	04/22/2016	EBS

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

**CERTIFICATE OF ANALYSIS**

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	4/25/2016
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	EV16040140
CLIENT PROJECT:	Point Roberts Marina UST	ALS SAMPLE#:	EV16040140-03
CLIENT SAMPLE ID	SS-7	DATE RECEIVED:	04/22/2016
		COLLECTION DATE:	4/21/2016 9:55:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	4.9	3.0	1	MG/KG	04/22/2016	PAB
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	04/22/2016	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	04/22/2016	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	04/22/2016	PAB
Ethylbenzene	EPA-8021	0.22	0.050	1	MG/KG	04/22/2016	PAB
Xylenes	EPA-8021	0.22	0.20	1	MG/KG	04/22/2016	PAB
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	04/22/2016	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	04/22/2016	EBS
Lead	EPA-6020	1.6	0.50	5	MG/KG	04/22/2016	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	91.9	04/22/2016	PAB
TFT	EPA-8021	104	04/22/2016	PAB
C25	NWTPH-DX	96.8	04/22/2016	EBS

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

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	4/25/2016
		ALS JOB#:	EV16040140
		ALS SAMPLE#:	EV16040140-04
CLIENT CONTACT:	Harold Cashman	DATE RECEIVED:	04/22/2016
CLIENT PROJECT:	Point Roberts Marina UST	COLLECTION DATE:	4/21/2016 10:30:00 AM
CLIENT SAMPLE ID	SS-8	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	04/22/2016	PAB
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	04/22/2016	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	04/22/2016	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	04/22/2016	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	04/22/2016	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	04/22/2016	PAB
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	04/22/2016	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	04/22/2016	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	89.6	04/22/2016	PAB
TFT	EPA-8021	100	04/22/2016	PAB
C25	NWTPH-DX	70.4	04/22/2016	EBS

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



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 4/25/2016
ALS SDG#: EV16040140
WDOE ACCREDITATION: C601

CLIENT CONTACT: Harold Cashman
CLIENT PROJECT: Point Roberts Marina UST

LABORATORY BLANK RESULTS

MB-042016S - Batch 103512 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	04/20/2016	PAB

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

MB-042016S - Batch 103512 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Methyl T-Butyl Ether	EPA-8021	U	MG/KG	0.10	04/20/2016	PAB
Benzene	EPA-8021	U	MG/KG	0.030	04/20/2016	PAB
Toluene	EPA-8021	U	MG/KG	0.050	04/20/2016	PAB
Ethylbenzene	EPA-8021	U	MG/KG	0.050	04/20/2016	PAB
Xylenes	EPA-8021	U	MG/KG	0.20	04/20/2016	PAB

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

MB-042016S - Batch 103449 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	MG/KG	25	04/20/2016	EBS
TPH-Oil Range	NWTPH-DX	U	MG/KG	50	04/20/2016	EBS

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

MB-042216S - Batch 103563 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Lead	EPA-6020	U	MG/KG	0.10	04/22/2016	RAL

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



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 4/25/2016
ALS SDG#: EV16040140
WDOE ACCREDITATION: C601

CLIENT CONTACT: Harold Cashman
CLIENT PROJECT: Point Roberts Marina UST

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 103512 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	108			66.5	122.7	04/20/2016	PAB
TPH-Volatile Range - BSD	NWTPH-GX	105	4		66.5	122.7	04/20/2016	PAB

ALS Test Batch ID: 103512 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Methyl T-Butyl Ether - BS	EPA-8021	97.8			66	116	04/20/2016	PAB
Methyl T-Butyl Ether - BSD	EPA-8021	92.9	5		66	116	04/20/2016	PAB
Benzene - BS	EPA-8021	99.9			67.7	124	04/20/2016	PAB
Benzene - BSD	EPA-8021	93.2	7		67.7	124	04/20/2016	PAB
Toluene - BS	EPA-8021	103			71	123	04/20/2016	PAB
Toluene - BSD	EPA-8021	97.3	5		71	123	04/20/2016	PAB
Ethylbenzene - BS	EPA-8021	102			69.8	117	04/20/2016	PAB
Ethylbenzene - BSD	EPA-8021	99.0	3		69.8	117	04/20/2016	PAB
Xylenes - BS	EPA-8021	104			70	119	04/20/2016	PAB
Xylenes - BSD	EPA-8021	101	3		70	119	04/20/2016	PAB

ALS Test Batch ID: 103449 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Diesel Range - BS	NWTPH-DX	107			75.5	122.1	04/20/2016	EBS
TPH-Diesel Range - BSD	NWTPH-DX	99.3	8		75.5	122.1	04/20/2016	EBS

ALS Test Batch ID: 103563 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Lead - BS	EPA-6020	105			80	120	04/22/2016	RAL
Lead - BSD	EPA-6020	106	1		80	120	04/22/2016	RAL

APPROVED BY

Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV16040140

Date 4/21/16 Page 1 Of 1

PROJECT ID: <u>Point Roberts Marina, WST</u>				ANALYSIS REQUESTED												OTHER (Specify)														
REPORT TO COMPANY: <u>Whitcomb Environmental Services</u>																														
PROJECT MANAGER: <u>Harold Cushman</u>																														
ADDRESS: <u>228 E. Champion St #101</u>																														
PHONE: <u>Bellingham WA 98225</u>																														
P.O. #: <u>360-752-9571</u>																														
INVOICE TO COMPANY: <u>E-MAIL: <u>hycushman@whitcomb.com</u></u>																														
ATTENTION: <u>STATIE AS ABOVE</u>																														
ADDRESS:																														
SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	Metals-MTCA-5	RCRA-8	Pt Pol	TAL	Metals Other (Specify)	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs	RECEIVED IN GOOD CONDITION?		
1. SS-5	4/21/16	9:30	Soil	1	X	X	X	X	X																					2
2. SS-6		9:45		2	X	X	X	X	X																					2
3. SS-7		9:55		3	X	X	X	X	X																					2
4. SS-8		10:30	↓	4	X	X	X	X	X																					2
5.																														
6.																														
7.																														
8.																														
9.																														
10.																														

SPECIAL INSTRUCTIONS VOC's filed via 503SA

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Statie As Above WES 4/21/16 5PM
Received By: Whitcomb, Inc. 4/22/16 10:30am

2. Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*
Organic Metals & Inorganic Analysis
OTHER:

Specify: _____
10 SAME DAY
5 3 2 1 SAME DAY
Fuels & Hydrocarbon Analysis
5 3 1 SAME DAY

*Turnaround request less than standard may incur Rush Charges



May 23, 2016

Mr. Harold Cashman
Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

Dear Mr. Cashman,

On May 20th, 1 sample was received by our laboratory and assigned our laboratory project number EV16050119. The project was identified as your Point Roberts Marina UST Site Assessment. The sample identification and requested analyses are outlined on the attached chain of custody record.

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

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

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	5/23/2016
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	EV16050119
CLIENT PROJECT:	Point Roberts Marina UST Site Assessment	ALS SAMPLE#:	EV16050119-01
		DATE RECEIVED:	05/20/2016
		COLLECTION DATE:	5/19/2016 10:00:00 AM
CLIENT SAMPLE ID	SS-9	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	05/20/2016	PAB
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	05/20/2016	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	05/20/2016	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	05/20/2016	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	05/20/2016	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	05/20/2016	PAB
TPH-Diesel Range	NWTPH-DX	120	25	1	MG/KG	05/20/2016	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	05/20/2016	EBS
Lead	EPA-6020	1.6	0.50	5	MG/KG	05/23/2016	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	118	05/20/2016	PAB
TFT	EPA-8021	117	05/20/2016	PAB
C25	NWTPH-DX	91.4	05/20/2016	EBS

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

CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
 228 E. Champion St., Suite 101
 Bellingham, WA 98225

DATE: 5/23/2016
ALS SDG#: EV16050119
WDOE ACCREDITATION: C601

CLIENT CONTACT: Harold Cashman
CLIENT PROJECT: Point Roberts Marina UST Site Assessment

LABORATORY BLANK RESULTS
MBG-051916S - Batch 104495 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	05/19/2016	PAB

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

MB-051916S - Batch 104495 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Methyl T-Butyl Ether	EPA-8021	U	MG/KG	0.10	05/19/2016	PAB
Benzene	EPA-8021	U	MG/KG	0.030	05/19/2016	PAB
Toluene	EPA-8021	U	MG/KG	0.050	05/19/2016	PAB
Ethylbenzene	EPA-8021	U	MG/KG	0.050	05/19/2016	PAB
Xylenes	EPA-8021	U	MG/KG	0.20	05/19/2016	PAB

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

MB-052016S - Batch 104554 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	MG/KG	25	05/20/2016	EBS
TPH-Oil Range	NWTPH-DX	U	MG/KG	50	05/20/2016	EBS

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

MB-052016S - Batch 104505 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Lead	EPA-6020	U	MG/KG	0.10	05/23/2016	RAL

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



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225
DATE: 5/23/2016
ALS SDG#: EV16050119
WDOE ACCREDITATION: C601

CLIENT CONTACT: Harold Cashman
CLIENT PROJECT: Point Roberts Marina UST Site Assessment

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 104495 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	98.8			66.5	122.7	05/19/2016	PAB
TPH-Volatile Range - BSD	NWTPH-GX	95.4	4		66.5	122.7	05/19/2016	PAB

ALS Test Batch ID: 104495 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Methyl T-Butyl Ether - BS	EPA-8021	72.2			66	116	05/19/2016	PAB
Methyl T-Butyl Ether - BSD	EPA-8021	72.4	0		66	116	05/19/2016	PAB
Benzene - BS	EPA-8021	89.5			67.7	124	05/19/2016	PAB
Benzene - BSD	EPA-8021	89.2	0		67.7	124	05/19/2016	PAB
Toluene - BS	EPA-8021	90.7			71	123	05/19/2016	PAB
Toluene - BSD	EPA-8021	90.5	0		71	123	05/19/2016	PAB
Ethylbenzene - BS	EPA-8021	92.6			69.8	117	05/19/2016	PAB
Ethylbenzene - BSD	EPA-8021	92.8	0		69.8	117	05/19/2016	PAB
Xylenes - BS	EPA-8021	95.4			70	119	05/19/2016	PAB
Xylenes - BSD	EPA-8021	96.2	1		70	119	05/19/2016	PAB

ALS Test Batch ID: 104554 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Diesel Range - BS	NWTPH-DX	104			75.5	122.1	05/20/2016	EBS
TPH-Diesel Range - BSD	NWTPH-DX	103	1		75.5	122.1	05/23/2016	EBS

ALS Test Batch ID: 104505 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Lead - BS	EPA-6020	102			80	120	05/23/2016	RAL
Lead - BSD	EPA-6020	103	1		80	120	05/23/2016	RAL

APPROVED BY

Laboratory Director



ALS Job# (Laboratory Use Only)

EV16050118

<http://www.alsglobal.com>

Date 5/19/16 Page 1 Of 1

PROJECT ID:	Pink Roberts Marine USE Site Assessment
REPORT TO COMPANY:	Whatcom Environmental Services
PROJECT MANAGER:	Harold Cashman
ADDRESS:	228 E Champion St. #101 Bellingham, WA 98225
PHONE:	360-752-9571 FAX: 360-752-9573
P.O. #:	
INVOICE TO COMPANY:	E-MAIL: <u>grashman@whatcom.com</u>
ATTENTION:	SAMÉ AS ABOVE
ADDRESS:	

PROJECT ID: Point Roberts Marine West Site Assessment				ANALYSIS REQUESTED										OTHER (Specify)									
REPORT TO COMPANY: Whatcom Environmental Services				TCLP-Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Herbs <input type="checkbox"/>																			
PROJECT MANAGER: Harold Cashman				Metals-MTCA-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> P/I Pol <input type="checkbox"/> TAL <input type="checkbox"/>																			
ADDRESS: 228 E Champion St. #101				PCB by EPA 8082 <input type="checkbox"/> Pesticides by EPA 8081 <input type="checkbox"/>																			
PHONE: 360-752-9571 FAX: 360-752-9573				Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM																			
P.O. #: Bellingham, WA 98225				Semivolatile Organic Compounds by EPA 8270																			
E-MAIL: grassman@whatcom.com				EDB / EDC by EPA 8260 (soil)																			
INVOICE TO COMPANY: SAME AS ABOVE				EDB / EDC by EPA 8260 SIM (water)																			
ATTENTION:				Halogenated Volatiles by EPA 8260																			
ADDRESS:				MTBE by EPA 8021 <input checked="" type="checkbox"/> MTBE by EPA 8260 <input type="checkbox"/>																			
				BTX by EPA 8021 <input checked="" type="checkbox"/> BTX by EPA 8260 <input type="checkbox"/>																			
				NMTPH-GX																			
				NMTPH-DX																			
				NMTPH-HCID																			
SAMPLE I.D.				DATE		TIME		TYPE		LAB#													
1. SS-9				5/16/16		10:00		Soil		1													
2.																							
3.																							
4.																							
5.																							
6.																							
7.																							
8.																							
9.																							
10.																							

SPECIAL INSTRUCTIONS

VoAs Filled via 50354

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By:

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Mike Dyer WES, 5/19/16, 3PM

Received By: Mike Dyer ALS, 5/20/16, 10:35

Relinquished By: _____

Received By: _____

2. Relinquished By:

Received By:

TURNAROUND REQUESTED in Business Days*
OTHER: ~~Organic, Metals & Inorganic Analysis~~

Specify:

2	1	SAME CAY
---	---	-------------

Fuels & Hydrocarbon Analysis

1	SAME DAY
---	----------

5

*Turnaround request less than standard may incur Rush Charges



June 23, 2016

Mr. Harold Cashman
Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

Dear Mr. Cashman,

On April 29th, 4 samples were received by our laboratory and assigned our laboratory project number EV16040194. The project was identified as your Point Roberts Marina UST. The sample identification and requested analyses are outlined on the attached chain of custody record.

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

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

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225
DATE: 6/23/2016
ALS JOB#: EV16040194
ALS SAMPLE#: EV16040194-01
CLIENT CONTACT: Harold Cashman
DATE RECEIVED: 04/29/2016
CLIENT PROJECT: Point Roberts Marina UST
COLLECTION DATE: 4/29/2016 8:35:00 AM
CLIENT SAMPLE ID: SS-13
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	04/29/2016	PAB
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	04/29/2016	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	04/29/2016	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	04/29/2016	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	04/29/2016	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	04/29/2016	PAB
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	04/30/2016	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	04/30/2016	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	102	04/29/2016	PAB
TFT	EPA-8021	104	04/29/2016	PAB
C25	NWTPH-DX	109	04/30/2016	EBS

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

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	6/23/2016
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	EV16040194
CLIENT PROJECT:	Point Roberts Marina UST	ALS SAMPLE#:	EV16040194-02
CLIENT SAMPLE ID	SS-10	DATE RECEIVED:	04/29/2016
		COLLECTION DATE:	4/29/2016 8:45:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	04/29/2016	PAB
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	04/29/2016	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	04/29/2016	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	04/29/2016	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	04/29/2016	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	04/29/2016	PAB
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	04/30/2016	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	04/30/2016	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	102	04/29/2016	PAB
TFT	EPA-8021	101	04/29/2016	PAB
C25	NWTPH-DX	99.0	04/30/2016	EBS

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

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	6/23/2016
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	EV16040194
CLIENT PROJECT:	Point Roberts Marina UST	ALS SAMPLE#:	EV16040194-03
CLIENT SAMPLE ID	SS-11	DATE RECEIVED:	04/29/2016
		COLLECTION DATE:	4/29/2016 9:00:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	04/29/2016	PAB
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	04/29/2016	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	04/29/2016	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	04/29/2016	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	04/29/2016	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	04/29/2016	PAB
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	04/30/2016	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	04/30/2016	EBS
Lead	EPA-6020	1.6	0.50	5	MG/KG	04/29/2016	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	93.6	04/29/2016	PAB
TFT	EPA-8021	98.7	04/29/2016	PAB
C25	NWTPH-DX	106	04/30/2016	EBS

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

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	6/23/2016
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	EV16040194
CLIENT PROJECT:	Point Roberts Marina UST	ALS SAMPLE#:	EV16040194-04
CLIENT SAMPLE ID	SS-12	DATE RECEIVED:	04/29/2016
		COLLECTION DATE:	4/29/2016 9:10:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	04/29/2016	PAB
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	04/29/2016	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	04/29/2016	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	04/29/2016	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	04/29/2016	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	04/29/2016	PAB
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	04/30/2016	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	04/30/2016	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	92.3	04/29/2016	PAB
TFT	EPA-8021	101	04/29/2016	PAB
C25	NWTPH-DX	106	04/30/2016	EBS

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



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225
DATE: 6/23/2016
ALS SDG#: EV16040194
WDOE ACCREDITATION: C601

CLIENT CONTACT: Harold Cashman
CLIENT PROJECT: Point Roberts Marina UST

LABORATORY BLANK RESULTS

MBG-042716S - Batch 103753 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	04/27/2016	PAB

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

MB-042716S - Batch 103753 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Methyl T-Butyl Ether	EPA-8021	U	MG/KG	0.10	04/27/2016	PAB
Benzene	EPA-8021	U	MG/KG	0.030	04/27/2016	PAB
Toluene	EPA-8021	U	MG/KG	0.050	04/27/2016	PAB
Ethylbenzene	EPA-8021	U	MG/KG	0.050	04/27/2016	PAB
Xylenes	EPA-8021	U	MG/KG	0.20	04/27/2016	PAB

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

MB-042616S - Batch 103707 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	MG/KG	25	04/26/2016	EBS
TPH-Oil Range	NWTPH-DX	U	MG/KG	50	04/26/2016	EBS

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

MB-042916S - Batch 103814 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Lead	EPA-6020	U	MG/KG	0.10	04/29/2016	RAL

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



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 6/23/2016
ALS SDG#: EV16040194
WDOE ACCREDITATION: C601

CLIENT CONTACT: Harold Cashman
CLIENT PROJECT: Point Roberts Marina UST

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 103753 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	90.1			66.5	122.7	04/27/2016	PAB
TPH-Volatile Range - BSD	NWTPH-GX	88.8	1		66.5	122.7	04/27/2016	PAB

ALS Test Batch ID: 103753 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Methyl T-Butyl Ether - BS	EPA-8021	83.3			66	116	04/27/2016	PAB
Methyl T-Butyl Ether - BSD	EPA-8021	85.5	3		66	116	04/27/2016	PAB
Benzene - BS	EPA-8021	83.0			67.7	124	04/27/2016	PAB
Benzene - BSD	EPA-8021	83.0	0		67.7	124	04/27/2016	PAB
Toluene - BS	EPA-8021	88.9			71	123	04/27/2016	PAB
Toluene - BSD	EPA-8021	89.2	0		71	123	04/27/2016	PAB
Ethylbenzene - BS	EPA-8021	89.2			69.8	117	04/27/2016	PAB
Ethylbenzene - BSD	EPA-8021	89.4	0		69.8	117	04/27/2016	PAB
Xylenes - BS	EPA-8021	87.1			70	119	04/27/2016	PAB
Xylenes - BSD	EPA-8021	87.9	1		70	119	04/27/2016	PAB

ALS Test Batch ID: 103707 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Diesel Range - BS	NWTPH-DX	97.6			75.5	122.1	04/26/2016	EBS
TPH-Diesel Range - BSD	NWTPH-DX	104	6		75.5	122.1	04/26/2016	EBS

ALS Test Batch ID: 103814 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Lead - BS	EPA-6020	101			80	120	04/29/2016	RAL
Lead - BSD	EPA-6020	103	3		80	120	04/29/2016	RAL

APPROVED BY

Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
<http://www.alsglobal.com>

Chain Of Custody/ Laboratory Analysis Request

ALS Job# _____ (Laboratory Use Only)

EV16040194

Date 4/29/16 Page 1 Of 1

PROJECT INFORMATION				ANALYSIS REQUESTED												OTHER (Specify)					
PROJECT ID:	REPORT TO COMPANY:	PROJECT MANAGER:	ADDRESS:	PHONE:	P.O. #:	INVOICE TO COMPANY:	ATTENTION:	ADDRESS:	MTBE by EPA-8021	BTEX by EPA-8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM	PCB Pesticides by EPA 8081/8082	Metals-MTCA-5 RCR-8 TAL	Metals Other (Specify)	TCLP-Metals VOA Semi-Vol Pest Herbs	RECEIVED IN GOOD CONDITION?
1.	SS-13	4/29/16	8:35	5016	1				X	X	X										
2.	SS-10	4/29/16	8:45	1	2				X	X	X										
3.	SS-11	4/29/16	9:00	1	3				X	X	X										
4.	SS-12	4/29/16	9:10	1	4				X	X	X										
5.																					
6.																					
7.																					
8.																					
9.																					
10.																					

SPECIAL INSTRUCTIONS VOAs filed via 5035A 6/23/16 Take changed SS-9 to SS-13

SIGNATURES (Name, Company, Date, Time):
 1. Relinquished By: Paul Roberts, WES, 4/29/16 12:35
 Received By: Paul Roberts, ALS 4/29/16 12:35
 2. Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED IN BUSINESS DAYS*
 Organic, Metals & Inorganic Analysis
 10 Standard 5 3 1 SAME DAY
 Fuels & Hydrocarbon Analysis
 5 Standard 5 3 1 SAME DAY

*Turnaround request less than standard may incur Rush Charges