UST DECOMMISSIONING REPORT

Narrows Marina 9007 South 19th Street Tacoma, Washington 98466

Prepared for: Narrows Marina, LLC 9007 South 19th Street

Tacoma, Washington 98466





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Project Number 01-10003



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1. INTRODUCTION

Beginning Monday, November 28, 2016, two underground storage tanks (USTs) and an associated fuel dispenser were removed from the Narrows Marina property located at 9007 South 19th Street in Tacoma, Pierce County, Washington (Figure 1).

This project was conducted by Pacific Environmental and Bill Kane from Eco Compliance Corporation. Pacific Environmental is an International Code Council-licensed (ICC-licensed) UST decommissioner. Mr. Kane is an ICC-licensed UST site assessor.

2. UST LOCATION, DESCRIPTION AND USE

The 2 subject USTs were located beneath a concrete-paved area along the northeast side of the marina (see Figure 1) (Figure 2). The tanks were laid end-to-end and from north-to-south. Sections of underground double-wall fiberglass piping connected the tanks to a dispenser located immediately north of the north tank (see Figure 2). The tanks were reportedly placed into service in the mid-1970s.

Both tanks were made of single-wall steel. The northern tank contained diesel fuel, and had a diameter of approximately 6 feet and length of 17 feet (approximately 4,000-gallons) (see Figure 2). This tank contained approximately 250 gallons of fuel at the time of decommissioning. The southern tank contained gasoline, and had a diameter of approximately 8 feet and length of 17 feet (approximately 6,000 gallons). This tank contained approximately 500 gallons of fuel at the time of decommissioning.

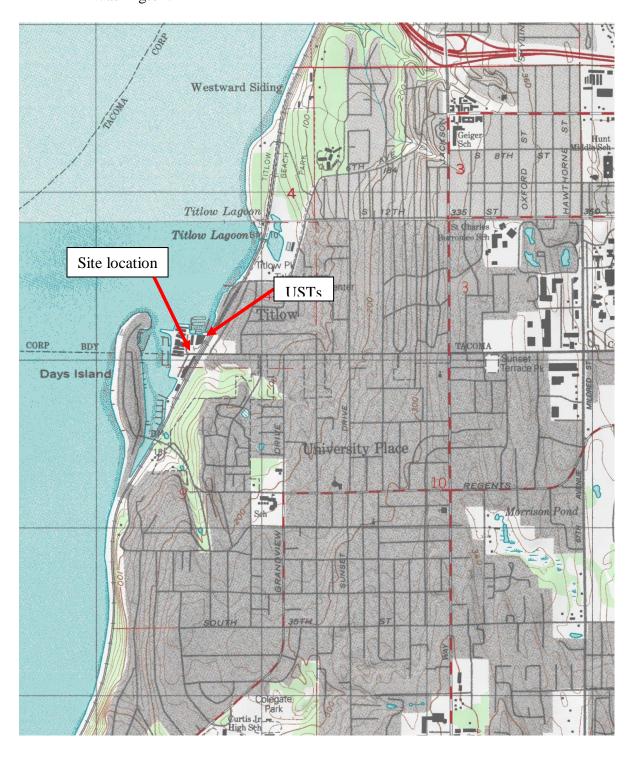
The underground double-wall fiberglass piping had interstitial monitoring connected to a leak detection system inside the office area of the adjacent building. The tanks had an internal liner and external cathodic protection. There have reportedly been no leaks from the piping, and the tanks have reportedly passed all tightness testing.

The subject property is gently-sloped to the west, while the surrounding area is moderately-to steeply-sloped to the west.

The surrounding area consists of single- and multi-family housing. A railroad track borders the property to the east, while Puget Sound borders the property to the west (see Figures 1 and 2). Based on topography, the general direction of shallow groundwater flow in the subject area is expected to be to the west. Based on proximity to Puget Sound, groundwater flow within and near the subject UST area may be tidally-influenced.



Figure 1. Site location map. Narrows Marina. 9007 South 19th Street, Tacoma, Washington.

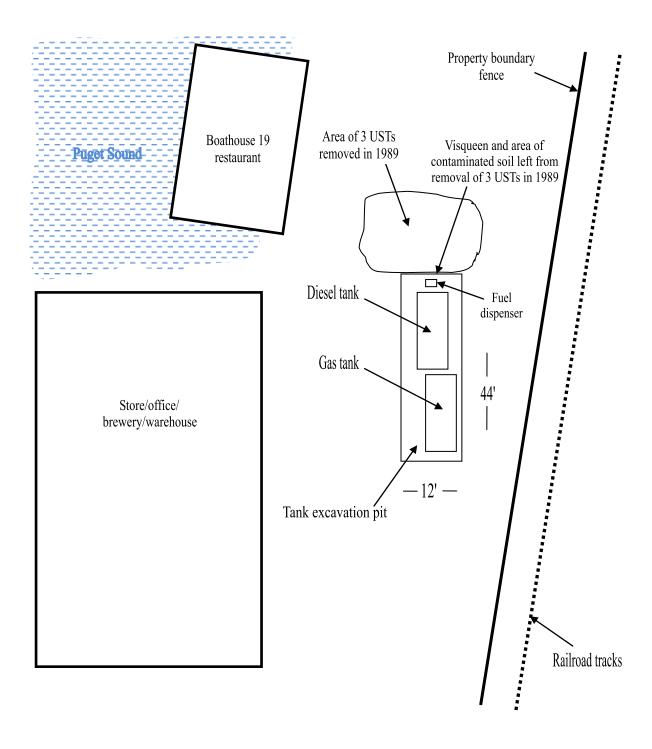


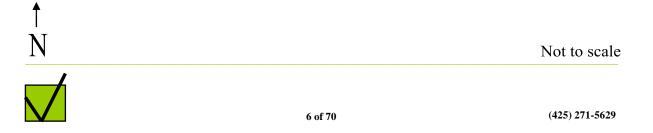


Not to scale



Figure 2. Approximate UST and fuel dispenser locations. Narrows Marina. 9007 South 19th Street, Tacoma, Washington.





3. UST SITE ASSESSMENT ACTIVITIES

Removal of the 2 subject USTs began on Monday, November 28, 2016. Site photographs are attached as Appendix A.

Prior to removal, a 30-Day Notice was submitted to the Washington State Department of Ecology (Ecology), and tank removal permits were obtained from the Tacoma-Pierce County Health Department and the Tacoma Fire Department. Copies of this paperwork are attached as Appendix B.

3.1 EXCAVATION AND SAMPLING OF OVERBURDEN MATERIAL

On Tuesday, November 29, 2016, an area approximately 12 feet from west-to-east and 44 feet from north-to-south was excavated around the tanks (see Figure 2).

Soil and pea gravel surrounded the top and sidewalls of the tanks. The tops of both tanks were approximately 3 feet below grade.

During excavation of this overburden material, visqueen was encountered along the north wall of the tank pit (see Figure 2) (see Appendix A). From a report prepared by Applied Geotechnology, Inc. dated August 8, 1989 (Final Report, Hydrocarbon Contaminated Soil Remediation, Narrows Marina, Tacoma), 3 USTs were removed from an area located immediately to the north (see Figure 2). Contaminated soil was encountered during the removal of these tanks, and was cleaned up except along the mid-south end of the pit. The visqueen was placed in the hole to denote the location of this remaining soil contamination to the south.

The overburden material, including material south of the visqueen barrier left from removal of 3 adjacent USTs in 1989, was excavated and stockpiled onsite. Three discrete soil samples were collected from random locations within this stockpile and analyzed for gasoline, BETX (benzene, ethylbenzene, toluene and xylenes) compounds, MTBE (methyl tert-butyl ether), diesel, oil and total lead (samples OB-1, OB-2 and OB-3).

Analytical results from this stockpile are attached as Appendix C and summarized below in Table 1. Table 1 also lists Ecology's cleanup standards (Chapter 173-340 WAC) based on unrestricted (residential) land use.



Table 1. Analytical results for overburden material from the tank pit. Narrows Marina. 9007 South 19th Street, Tacoma, Washington. November 29, 2016.

Sample	Location/Description	Analytical Result (ppm)	Ecology Cleanup Standard (ppm)
OB-1	Overburden material from	ND(2.5) gasoline	100 gasoline
	excavation from top and sidewalls of		
	tank pit.	ND(0.025) benzene	0.03 benzene
		ND(0.05) ethylbenzene	6 ethylbenzene
	Discrete, random sample from	ND(0.05) toluene	7 toluene
	stockpile.	ND(0.1) xylenes	9 xylenes
		ND(0.05) MTBE	0.1 MTBE
		ND(10) diesel	2,000 diesel
		ND(50) oil	2,000 oil
		5 lead	250 lead
OB-2	Overburden material from	ND(2.5) gasoline	100 gasoline
	excavation from top and sidewalls of	ND(0.025) 1	0.021
	tank pit.	ND(0.025) benzene	0.03 benzene
	D: 1 1 6	ND(0.05) ethylbenzene	6 ethylbenzene
	Discrete, random sample from	ND(0.05) toluene	7 toluene
	stockpile.	ND(0.1) xylenes	9 xylenes
		ND(0.05) MTBE	0.1 MTBE
		ND(10) diesel	2,000 diesel
		ND(50) oil	2,000 oil
		72 lead	250 lead
OB-3	Overburden material from	ND(2.5) gasoline	100 gasoline
	excavation from top and sidewalls of	ND(0.025) 1	0.021
	tank pit.	ND(0.025) benzene	0.03 benzene
	Diameter and I am a smaller forms	ND(0.05) ethylbenzene	6 ethylbenzene
	Discrete, random sample from	ND(0.05) toluene	7 toluene
	stockpile.	ND(0.1) xylenes	9 xylenes
		ND(0.05) MTBE	0.1 MTBE
		14.3 diesel	2,000 diesel
		ND(50) oil	2,000 oil
		, ,	
		26 lead	250 lead

ND(2.5) Not detected at the analytical detection limit of 2.5 parts-per-million (ppm) (mg/Kg).



From Table 1, diesel was detected in one soil sample collected from the stockpiled overburden material (sample OB-3), while lead was detected in all 3 samples. The concentrations of these contaminants are below Ecology's cleanup standards based on unrestricted (residential) land use.

There was no gasoline, BETX compounds, MTBE or oil detected in any of the samples collected from the overburden material.

3.2 TANK REMOVAL AND SOIL SAMPLING FROM PIT

After removal of the overburden material, the tanks were pumped and rinsed by Marine Vacuum Service. As noted above, the diesel tank contained approximately 250 gallons of fuel at the time of decommissioning, while the gas tank contained approximately 500 gallons. An additional approximate 500 gallons of rinsate liquid was used to clean the tanks. A copy of the disposal receipt for the tank contents/rinsate liquid is attached as Appendix D.

The tanks were inerted by a marine chemist, then removed from the ground. A copy of the marine chemist paperwork is attached as Appendix E.

The tanks were in good condition during the time of removal, with no obvious evidence of holes, cracks or unusual staining such as from leakage. The tanks were disposed of offsite as scrap. Copies of the disposal receipts for the tanks are attached as Appendix F.

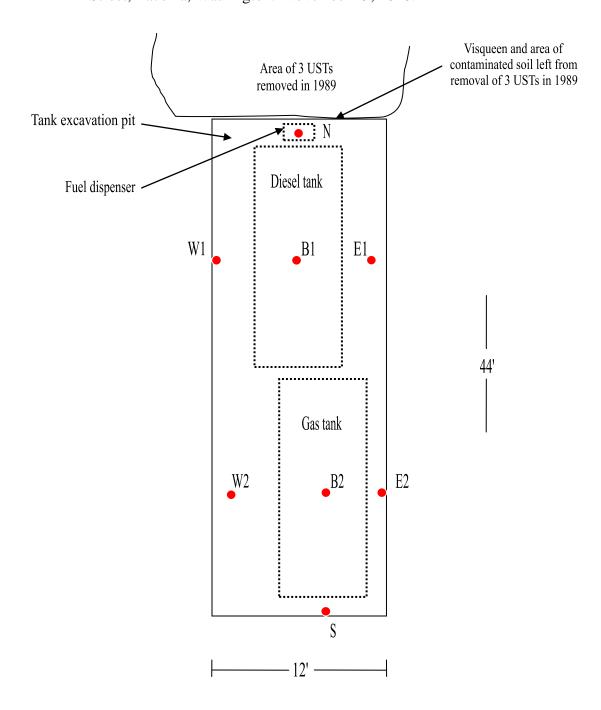
Groundwater was present in the bottom of the excavation pit at approximately 12 - 13 feet below grade.

A total of 8 soil samples were collected from the excavation pit (Figure 3). Samples B1 and B2 were collected beneath the tanks at the top of the water table approximately 12 - 13 feet below grade. Sample N was collected along the north end of the excavation pit north of the diesel (north) tank. This sample location is also beneath the former fuel dispenser for the tanks, and within the mid-south sidewall area of soil contamination left from removal of 3 adjacent USTs in 1989 (see Figures 2 and 3). There were no soil samples collected from between the 2 USTs.

All samples from the tank pit were analyzed for gasoline, BETX compounds, MTBE, diesel, oil and total lead. Analytical results are attached as Appendix G and summarized below in Table 2.



Figure 3. Approximate UST soil sampling locations. Narrows Marina. 9007 South 19th Street, Tacoma, Washington. November 29, 2016.



• N Approximate soil sampling location

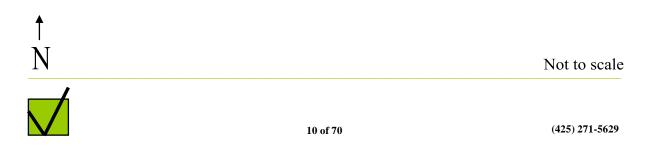


Table 2. Soil analytical results from tank excavation pit. Narrows Marina. 9007 South 19th Street, Tacoma, Washington. November 29, 2016.

Sample	Location/Description	Analytical Result (ppm)	Ecology Cleanup Standard (ppm)
N	North end of tank pit.	ND(2.5) gasoline	30 gasoline
	Approximately 3 feet north of north	ND(0.025) benzene	0.03 benzene
	end of diesel (north) tank. Directly	ND(0.05) ethylbenzene	6 ethylbenzene
	beneath the fuel dispenser, and	ND(0.05) toluene	7 toluene
	within the mid-south sidewall area	ND(0.1) xylenes	9 xylenes
	of soil contamination left from	ND(0.05) MTBE	0.1 MTBE
	removal of 3 adjacent USTs in		
	1989.	ND(10) diesel	2,000 diesel
		ND(50) oil	2,000 oil
	Approximately 10 feet below grade		
	(approximately 7 feet below the	ND(4) lead	250 lead
	bottom of the fuel dispenser).		
****	Sandy clayey soil with some gravel.	ND (2.5) 1'	20 11
W1	West sidewall of excavation pit,	ND(2.5) gasoline	30 gasoline
	approximately 3 feet west of west	ND(0.005) 1	0.02.1
	sidewall of diesel (north) tank.	ND(0.025) benzene	0.03 benzene
	A	ND(0.05) ethylbenzene	6 ethylbenzene
	Approximately 6 feet below grade.	ND(0.05) toluene	7 toluene
	Clause manually as it	ND(0.1) xylenes	9 xylenes
	Clayey gravelly soil.	ND(0.05) MTBE	0.1 MTBE
		ND(10) diesel	2,000 diesel
		ND(50) oil	2,000 oil
		ND(4) lead	250 lead
E1	East sidewall of excavation pit,	ND(2.5) gasoline	30 gasoline
	approximately 2 feet east of east		
	sidewall of diesel (north) tank.	ND(0.025) benzene	0.03 benzene
		ND(0.05) ethylbenzene	6 ethylbenzene
	Approximately 6 feet below grade.	ND(0.05) toluene	7 toluene
		ND(0.1) xylenes	9 xylenes
	Clayey gravelly soil with some wood.	ND(0.05) MTBE	0.1 MTBE
		ND(10) diesel	2,000 diesel
		ND(50) oil	2,000 oil
		10 lead	250 lead



Table 2 (continued). Soil analytical results from tank excavation pit. Narrows Marina. 9007 South 19th Street, Tacoma, Washington. November 29, 2016.

Sample	Location/Description	Analytical Result (ppm)	Ecology Cleanup Standard (ppm)
B1	Approximately 3 feet below the	ND(2.5) gasoline	30 gasoline
	bottom of the diesel (north) tank.	ND(0.025) h	0.021
	At top of water table approximately	ND(0.025) benzene ND(0.05) ethylbenzene	0.03 benzene
	At top of water table approximately $12 - 13$ feet below grade.	ND(0.05) ethylbenzene ND(0.05) toluene	6 ethylbenzene 7 toluene
	12 – 13 feet below grade.	ND(0.03) toluche ND(0.1) xylenes	9 xylenes
	Wet gravelly sandy soil.	ND(0.05) MTBE	0.1 MTBE
		ND(10) diesel	2,000 diesel
		ND(50) oil	2,000 oil
		ND(4) lead	250 lead
W2	West sidewall of excavation pit,	ND(2.5) gasoline	30 gasoline
	approximately 3 feet west of west	(12) 8	
	sidewall of gasoline (south) tank.	ND(0.025) benzene	0.03 benzene
		ND(0.05) ethylbenzene	6 ethylbenzene
	Approximately 7 feet below grade.	ND(0.05) toluene	7 toluene
		ND(0.1) xylenes	9 xylenes
	Clayey gravelly soil.	ND(0.05) MTBE	0.1 MTBE
		ND(10) diesel	2,000 diesel
		ND(50) oil	2,000 oil
		6 lead	250 lead
E2	East sidewall of excavation pit,	ND(2.5) gasoline	30 gasoline
	approximately one foot east of east	ND (0.025) 1	0.021
	sidewall of gasoline (south) tank.	ND(0.025) benzene	0.03 benzene
	Approximately 7 fact below grade	ND(0.05) ethylbenzene ND(0.05) toluene	6 ethylbenzene 7 toluene
	Approximately 7 feet below grade.	ND(0.03) toluene ND(0.1) xylenes	9 xylenes
	Clayey gravelly soil.	ND(0.05) MTBE	0.1 MTBE
	Chayey gravery son.	110(0.03) 111100	O.1 WILDE
		ND(10) diesel	2,000 diesel
		ND(50) oil	2,000 oil
		12 lead	250 lead



Table 2 (continued). Soil analytical results from tank excavation pit. Narrows Marina. 9007 South 19th Street, Tacoma, Washington. November 29, 2016.

Location/Description	Analytical Result (ppm)	Ecology Cleanup Standard (ppm)
Approximately 2 feet below the	ND(2.5) gasoline	30 gasoline
bottom of the gasoline (south) tank.	NT (0.005) 1	0.001
		0.03 benzene
1 11		6 ethylbenzene
12 – 13 feet below grade.	*	7 toluene
		9 xylenes
Wet gravelly sandy soil.	ND(0.05) MTBE	0.1 MTBE
		2,000 diesel
	ND(50) oil	2,000 oil
	13 lead	250 lead
South end of tank pit.	ND(2.5) gasoline	30 gasoline
Approximately 2 feet south of south	ND(0.025) benzene	0.03 benzene
end of gasoline (south) tank.	ND(0.05) ethylbenzene	6 ethylbenzene
	ND(0.05) toluene	7 toluene
Approximately 7 feet below grade.	ND(0.1) xylenes	9 xylenes
	ND(0.05) MTBE	0.1 MTBE
Clayey soil with some sand.		
	ND(10) diesel	2,000 diesel
	ND(50) oil	2,000 oil
	& lead	250 lead
	Approximately 2 feet below the bottom of the gasoline (south) tank. At top of water table approximately 12 – 13 feet below grade. Wet gravelly sandy soil. South end of tank pit. Approximately 2 feet south of south end of gasoline (south) tank. Approximately 7 feet below grade.	Approximately 2 feet below the bottom of the gasoline (south) tank. At top of water table approximately 12 – 13 feet below grade. Wet gravelly sandy soil. ND(0.025) benzene ND(0.05) ethylbenzene ND(0.05) toluene ND(0.1) xylenes ND(0.05) MTBE ND(10) diesel ND(50) oil 13 lead ND(2.5) gasoline ND(0.05) toluene ND(50) oil ND(50) oil ND(0.025) benzene ND(0.05) MTBE Clayey soil with some sand. ND(0.025) benzene ND(0.025) benzene ND(0.025) benzene ND(0.05) toluene

ND(2.5) Not detected at the analytical detection limit of 2.5 parts-per-million (ppm) (mg/Kg).

From Table 2, lead was detected in several of the soil samples collected from the tank pit, but at concentrations that are below Ecology's cleanup standard.

There was no gasoline, BETX compounds, MTBE, diesel or oil detected in any of the samples, including sample N from within the mid-south sidewall area of soil contamination left from removal of 3 adjacent USTs in 1989 (see Figures 2 and 3).



3.3 OVER-EXCAVATION OF BOTTOM OF TANK PIT

Future plans call for the installation of a new, larger UST in the same pit as the 2 former subject USTs. As part of this installation, the sidewalls and bottom of the pit were over-excavated to approximately 15 feet below grade to accommodate the larger diameter of the new tank. As noted above, groundwater was present in the bottom of the pit at approximately 12 - 13 feet below grade. As a result, this over-excavation required the use of shoring equipment along all sides of the pit, and equipment to de-water the hole.

On Tuesday, December 13, 2016, soil/mud was over-excavated from the pit and stockpiled onsite. This excavation included soil/mud south of the visqueen barrier left from removal of 3 adjacent USTs in 1989 (see Figures 2 and 3). Three discrete samples were collected from random locations within the stockpile and analyzed for gasoline, BETX compounds, MTBE, diesel, oil and total lead (samples SP1, SP2 and SP3).

Analytical results from this stockpile are attached as Appendix H and summarized below in Table 3.

Table 3. Analytical results of soil/mud from over-excavation of bottom of tank pit. Narrows Marina. 9007 South 19th Street, Tacoma, Washington. December 13, 2016.

Sample	Location/Description	Analytical Result (ppm)	Ecology Cleanup Standard (ppm)
SP1	Soil/mud from over-excavation of bottom of tank pit.	ND(5) gasoline	100 gasoline
	_	ND(0.025) benzene	0.03 benzene
	Discrete, random sample from	ND(0.05) ethylbenzene	6 ethylbenzene
	stockpile.	ND(0.05) toluene	7 toluene
	-	ND(0.1) xylenes	9 xylenes
		ND(0.05) MTBE	0.1 MTBE
		ND(10) diesel	2,000 diesel
		58 oil	2,000 oil
		7 lead	250 lead





Table 3 (continued). Analytical results of soil/mud from over-excavation of bottom of tank pit. Narrows Marina. 9007 South 19th Street, Tacoma, Washington. December 13, 2016.

Sample	Location/Description	Analytical Result (ppm)	Ecology Cleanup Standard (ppm)
SP2	Soil/mud from over-excavation of bottom of tank pit.	ND(5) gasoline	100 gasoline
	•	ND(0.025) benzene	0.03 benzene
	Discrete, random sample from	ND(0.05) ethylbenzene	6 ethylbenzene
	stockpile.	ND(0.05) toluene	7 toluene
	_	ND(0.1) xylenes	9 xylenes
		ND(0.05) MTBE	0.1 MTBE
		ND(10) diesel	2,000 diesel
		ND(50) oil	2,000 oil
		7 lead	250 lead
SP3	Soil/mud from over-excavation of bottom of tank pit.	ND(5) gasoline	100 gasoline
	•	ND(0.025) benzene	0.03 benzene
	Discrete, random sample from	ND(0.05) ethylbenzene	6 ethylbenzene
	stockpile.	ND(0.05) toluene	7 toluene
		ND(0.1) xylenes	9 xylenes
		ND(0.05) MTBE	0.1 MTBE
		14.8 diesel	2,000 diesel
		60 oil	2,000 oil
		12 lead	250 lead

ND(5) Not detected at the analytical detection limit of 5 parts-per-million (ppm) (mg/Kg).

From Table 3, diesel and/or oil were detected in 2 of the soil/mud samples collected from stockpile material, while lead was detected in all 3 samples. The concentrations of these contaminants are below Ecology's cleanup standards based on unrestricted (residential) land use.

There was no gasoline, BETX compounds or MTBE detected in any of the soil/mud samples.



3.4 GROUNDWATER SAMPLING

As noted above, groundwater was present in the bottom of the excavation pit at approximately 12 - 13 feet below grade. An approximate 12-inch diameter perforated pipe was installed in the water table along the north end of the pit to help de-water the hole during installation of the new UST. This pipe extended approximately 5 feet up from the bottom of the pit (approximately 15 feet below grade). A pump was placed inside the pipe, and used to pump the groundwater to an adjacent holding tank.

Using a hand bailer, a groundwater sample was collected from directly inside the perforated pipe (sample GW). Water had not been pumped from the pipe for approximately 16 hours prior to collection of this sample. Prior to sampling, approximately 2 gallons of water was purged from the pipe until pH and temperature appeared to have stabilized (7.08 and 46.2F respectively). The groundwater sample was clear, with no obvious discoloration or petroleum sheen or odor.

One water sample was also collected directly from the holding tank (sample Tank). This sample was also clear, with no obvious discoloration or petroleum sheen or odor.

The groundwater samples were analyzed for gasoline, BETX compounds, MTBE, 1,2-dibromoethane, 1.2-dichloroethane, diesel and oil. The water sample from the tank was also analyzed for total lead. Analytical results are attached as Appendix I and summarized below in Table 4.

Table 4. Groundwater samples from tank pit and holding tank. Narrows Marina. 9007 South 19th Street, Tacoma, Washington. December, 2016.

Sample	Location/Description	Analytical Result (ppb)	Ecology Cleanup Standard (ppb)
GW	Groundwater sample from inside perforated pipe	ND(50) gasoline	1,000 gasoline
	along north end of tank pit.	ND(1) benzene	5 benzene
		ND(1) ethylbenzene	700 ethylbenzene
	Collected approximately	ND(1) toluene	1,000 toluene
	16 hours after water had	ND(2) xylenes	1,000 xylenes
	last been pumped from the		
	pit.	ND(1) MTBE	20 MTBE
		ND(0.4) 1,2-dibromoethane	0.01 1,2-dibromoethane
		ND(1) 1,2-dichloroethane	5 1,2-dichloroethane
		ND(100) diesel	500 diesel
		ND(500) oil	500 oil



Table 4 (continued). Groundwater samples from tank pit and holding tank. Narrows Marina. 9007 South 19th Street, Tacoma, Washington. December, 2016.

Sample	Location/Description	Analytical Result (ppb)	Ecology Cleanup Standard (ppb)
Tank	Water sample from holding tank.	ND(50) gasoline	1,000 gasoline
		ND(1) benzene	5 benzene
		ND(1) ethylbenzene	700 ethylbenzene
		ND(1) toluene	1,000 toluene
		ND(2) xylenes	1,000 xylenes
		ND(1) MTBE	20 MTBE
		ND(0.4) 1,2-dibromoethane	0.01 1,2-dibromoethane
		ND(1) 1,2-dichloroethane	5 1,2-dichloroethane
		ND(100) diesel	500 diesel
		ND(500) oil	500 oil
		ND(15) lead	15 lead

ND(50) Not detected at the analytical detection limit of 50 parts-per-billion (ppb) (ug/L).

From Table 4, there was no gasoline, BETX compounds, MTBE, 1,2-dibromoethane, 1.2-dichloroethane, diesel, oil and/or lead detected in any of the groundwater samples collected from the site.

The analytical detection limit noted in Table 4 for 1,2-dibromoethane (0.4 ppb) is above the Ecology cleanup standard (0.01 ppb). Historically, 1,2-dibromoethane, 1,2-dichloroethane and MTBE were used as anti-knock compounds in leaded gasoline. Because gasoline, BETX compounds, MTBE and 1,2-dichloroethane were not detected in either water sample, and because gasoline, BETX compounds and MTBE were not detected in any of the soil samples collected from the site (overburden, tank pit, pit over-excavation stockpile), the potential for 1,2-dibromoethane to be present in the groundwater at concentrations below the analytical detection limit appears minimal.



4. SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

Beginning Monday, November 28, 2016, two underground storage tanks (USTs) and an associated fuel dispenser were removed from the Narrows Marina property located at 9007 South 19th Street in Tacoma, Pierce County, Washington.

Soil and pea gravel surrounded the top and sidewalls of the tanks. This overburden material, including material south of the visqueen barrier left from removal of 3 adjacent USTs in 1989, was excavated and stockpiled onsite. Three discrete soil samples were collected from random locations within this stockpile. Diesel was detected in one of these samples, while lead was detected in all 3 samples. The concentrations of these contaminants are below Ecology's cleanup standards based on unrestricted (residential) land use. There was no gasoline, BETX compounds, MTBE or oil detected in any of these soil samples.

The tanks were in good condition during the time of removal, with no obvious evidence of holes, cracks or unusual staining such as from leakage. A total of 8 soil samples were collected from the tank excavation pit. Lead was detected in several of these samples, but at concentrations that are below Ecology's cleanup standard. There was no gasoline, BETX compounds, MTBE, diesel or oil detected in any of these soil samples.

Future plans call for the installation of a new, larger UST in the same pit as the 2 former subject USTs. As part of this installation, the sidewalls and bottom of the pit had to over-excavated to approximately 15 feet below grade to accommodate the larger diameter of the new tank. Soil/mud was excavated from the bottom of the pit, including material south of the visqueen barrier left from removal of 3 adjacent USTs in 1989, and stockpiled onsite. Three discrete samples were collected from random locations within this stockpile. Diesel and/or oil were detected in 2 of these samples, while lead was detected in all 3 samples. The concentrations of these contaminants are below Ecology's cleanup standards. There was no gasoline, BETX compounds or MTBE detected in any of these soil/mud samples.

Groundwater was present in the bottom of the tank pit. An approximate 12-inch diameter perforated pipe was installed in the water table along the north end of the tank pit to help dewater the hole during installation of the new UST. This pipe extended approximately 5 feet up from the bottom of the pit. A pump was placed inside the pipe, and used to pump the groundwater to an adjacent holding tank. Using a hand bailer, a groundwater sample was collected directly from inside the perforated pipe. Water had not been pumped from the pipe for approximately 16 hours prior to collection of this sample. One water sample was also collected directly from the holding tank. There was no gasoline, BETX compounds, MTBE, 1,2-dibromoethane, 1.2-dichloroethane, diesel, oil and/or lead detected in any of these groundwater samples.



Overall and based on these sampling results, no further environmental investigation of the soil or groundwater within the subject tank area appears warranted. Furthermore, removal of these tanks has remediated soil contamination left from removal of 3 adjacent USTs in 1989.

Ecology paperwork is attached as Appendix J.

Narrows Marina should submit a copy of this report to Ecology's office in Olympia, and to the Tacoma-Pierce County Health Department office in Tacoma.

5. SIGNATURE

Bill Kane

Bill Kane

ICC-certified UST site assessor #ICC32000553, expires May 7, 2017



APPENDIX A SITE PHOTOGRAPHS



Removal of concrete pavement above the tanks. Looking north. Fuel dispenser in background.



Removal of concrete pavement above the tanks. Looking south. Fuel dispenser in foreground.





Removal of fuel dispenser located immediately north of the north (diesel) tank. Looking northeast.



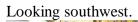
Exposure of top of diesel fuel (north) tank. Looking southeast. Location of former fuel dispenser in foreground.





Removal of diesel fuel (north) tank. Looking southeast. Location of former fuel dispenser in foreground.





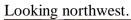




Water beneath diesel fuel (north) tank. Looking south.



Visqueen barrier along north wall of tank pit, from removal of 3 adjacent USTs in 1989.







Exposure of top of gasoline (south) tank. Looking southwest.



Removal of gasoline (south) tank. Looking southwest.





(425) 271-5629 25 of 70

Looking southeast. Probable groundwater staining along bottom approximate 3 feet of tank.



Water beneath gasoline (south) tank. Looking southeast.





Bottom of both tanks in good condition with no obvious holes or leakage.





APPENDIX B

NOTICES AND PERMITS



DEPARTMENT OF ECOLOGY

	UST ID #:
30-DAY NOTICE FOR UNDERGROUND STORAGE TANKS	County:

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

Please ✓ the app	ropriate box:	Intent to Inst	all	intent to	Close	Change-	in-Service	
Zaine.	I. SITE INFORM	ATION			II. OWNE	R/OPERATO	R INFORMAT	en e
Tag or UBI # (if ap	oplicable): 60_o	2-192-0	83_	Owner/0	perator Na	me:5 <u>co</u>	# Wa	JUR
UST ID # (if applic	cable): 47	56		Business	Name: 1	recou	= MaxiN	a Lolic
Site Name: 5	umeas	Susines	S LLUMB	Mailing /	Address: 7	0115,1	9 th Steec	Sicile 100
Site Address:	<u></u>		64 XXV		acom			Zip9846
City:				Phone:	253-	564-3	032	
Phone:		- 572 -10		Email:5	wagne	LENa	elows M	reinac Con
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2) 📋 Install	er Decom	missioner 5	Site Asse	255OF				A
Company Name:	Eco Co	MSPIANCE		Certifica	tion Type:			
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(425) 271-5629



UNDERGROUND STORAGE TANK REMOVAL/SITE CLOSURE PERMIT

This permit grants the individual/firm listed below permission to perform Underground Storage Tank (UST) work at the site listed below in accordance with Chapter 4 of the Tacoma Pierce County Environmental Health Code. The Site Owner and/or Operator are required to achieve Site Closure as defined in Chapter 4.

Site Location:	9007 S 19th ST, Tacoma, WA 98466			
Facility Name:	Narrow's Marina LLC			
Removal/Consult	Iting Firm: Pacific Environmental			
Number of Tanks to be Removed (if applicable): 2				
Approval Signature	Permit #: RO0004560			

ATTENTION

- <u>All</u> work must be performed in accordance with Environmental Health Code, Chapter 4
 Underground Storage Tanks, Board of Health Resolution, #2010-4225.
- All UST Site activity schedules must be approved by the Health Department at least five (5) working days <u>prior</u> to activity start date by calling (253) 798-2855 or emailing <u>rolsen@tpchd.org</u>.
- Reporting documents must be submitted within 90 days of UST Site activities, including UST removal, investigation and remedial actions.
- UST Removal/Site Closure permits must be renewed after 365 day if Site Closure is not achieved.

Permit must be accessible at site - DO NOT ALTER OR DEFACE This permit expires 365 days from validation date.

Environmental Health Division

3629 South D Street, MS 1056, Tacoma-WA 98418-6813

Report 5504





Tacoma Fire Department Fire Prevention Bureau 253,591,5740

Fire Prevention Bureau 253.591.5740 FAX Number 253.594.7943 3471 S. 35th St. Tacoma, WA 98409 www.tacomafiredepartment.org

PERMIT

For inspection call (253) 591-5754 or Inspection request form can be faxed or e-mailed to TFDPermits@cityoftacoma.org

Permit Type: U	nderground Tank -Removal or Commercial	Decon	missioning	Perm	iit Number: 1	616520
	PERI	AIT INF	ORMATION			
Date Issued:	09/21/16	Event	date: 11/01/16		Expiration da	te:
leaued to:	NARROWS MARINA LLC				55.7 E77	
Address:	9001 S 19 TH ST, STE 100		Dity: Tacoma		State: WA	Zip: 98466
Site Address:	(if different from above)					
Contact Name:	SCOTT WAGNER					
Phone:	(253) 564-3032		Alternate Phone/C	ell: (25	3) 225-1718	
E-mail Address:	SWAGNER@NARROWSMARI	NA.CO	VI			
	ADDITIONAL	COND	ITIONS OF PERM	IT		
1. Comply w	ith conditions of permit.					
AC 87.787	500 NO NO AASSAMBLE SOOTA VO					
2. Remove I	fanks, Instali New Tank					
3.						
	FPBC	FFIGIA	L USE ONLY			
Issued By:	Lt. Mark Wagner					
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Date: 9/2//	16 Inspector: Ma	uk l	Vagner		Passed	Fail []
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Date:	Inspector:				Passed [Fail 🗌
Reason for inspec	ction failure:				VC-4	-04



APPENDIX C

ANALYTICAL RESULTS FOR TANK PIT OVERBURDEN MATERIAL



2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

04/04/2017		Project:	Narrows
		Client ID:	OB-1
Eco Compliance		Sample Matrix:	Soil
1823 Bremerton Ave NE		Date Sampled:	11/29/2016
Renton, WA 98059-3954		Date Received:	11/29/2016
Attn: Bill Kane		Spectra Project:	2016110773
		Spectra Number:	: 10
			Rush
Analyte	Result	Units	Method
Diesel	<10.0	mg/Kg	NWTPH-D
Oil	<50.0	mg/Kg	NWTPH-D
Gasoline	<2.5	mg/Kg	NWTPH-G
Total Lead	5	mg/Kg	SW846 6010C
Benzene	< 0.025	mg/Kg	SW846 8260C
Ethylbenzene	< 0.05	mg/Kg	SW846 8260C
Methyl-tert-Butyl Ether	< 0.05	mg/Kg	SW846 8260C
Toluene	< 0.05	mg/Kg	SW846 8260C
Total Xylenes	< 0.10	mg/Kg	SW846 8260C

Surrogate	% Recovery	Method	
Toluene-d8	95	NWTPH-G	
4-Bromofluorobenzene	79	NWTPH-G	
p-Terphenyl	63	NWTPH-D	

SPECTRA LABORATORIES

Jethey Cooper, Laboratory Manager

Page 10 of 12



2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

04/04/2017		Project: Client ID:	Narrows OB-2
Eco Compliance		Sample Matrix:	Soil
1823 Bremerton Ave NE		Date Sampled:	11/29/2016
Renton, WA 98059-3954		Date Received:	11/29/2016
Attn: Bill Kane		Spectra Project:	2016110773
		Spectra Number:	: 11
			Rush
Analyte	Result	Units	Method
Diesel	<10.0	mg/Kg	NWTPH-D
Oil	<50.0	mg/Kg	NWTPH-D
Gasoline	<2.5	mg/Kg	NWTPH-G
Total Lead	72	mg/Kg	SW846 6010C
Benzene	< 0.025	mg/Kg	SW846 8260C
Ethylbenzene	< 0.05	mg/Kg	SW846 8260C
Methyl-tert-Butyl Ether	< 0.05	mg/Kg	SW846 8260C
Toluene	< 0.05	mg/Kg	SW846 8260C
Total Xylenes	< 0.10	mg/Kg	SW846 8260C

Surrogate	% Recovery	Method
Toluene-d8	95	NWTPH-G
4-Bromofluorobenzene	78	NWTPH-G
p-Terphenyl	65	NWTPH-D

SPECTRA LABORATORIES

Tentoy Cooper, Laboratory Manager

Page 11 of 12



2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

04/04/2017		Project:	Narrows
		Client ID:	OB-3
Eco Compliance		Sample Matrix:	Soil
1823 Bremerton Ave NE		Date Sampled:	11/29/2016
Renton, WA 98059-3954		Date Received:	11/29/2016
Attn: Bill Kane		Spectra Project:	2016110773
		Spectra Number	: 12
			Rush
Analyte	Result	Units	Method
Diesel	14.3	mg/Kg	NWTPH-D
Oil	< 50.0	mg/Kg	NWTPH-D
Gasoline	<2.5	mg/Kg	NWTPH-G
Total Lead	26	mg/Kg	SW846 6010C
Benzene	< 0.025	mg/Kg	SW846 8260C
Ethylbenzene	< 0.05	mg/Kg	SW846 8260C
Methyl-tert-Butyl Ether	< 0.05	mg/Kg	SW846 8260C
Toluene	< 0.05	mg/Kg	SW846 8260C
Total Xylenes	< 0.10	mg/Kg	SW846 8260C

Surrogate	% Recovery	Method	_
Toluene-d8	95	NWTPH-G	
4-Bromofluorobenzene	79	NWTPH-G	
p-Terphenyl	59	NWTPH-D	

SPECTRA LABORATORIES

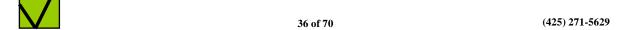
Cooper, Laboratory Manager

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Page 12 of 12



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APPENDIX D DISPOSAL RECEIPT FOR TANK CONTENTS



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Marine Vacuum Service, Inc.

GENERAL CONTRACTOR
CONTRACTORS LICENSE # MARINVS097JA

Tank Size: 4,000 Gallons

DBE # D4M1302341

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

AST/UST STORAGE TANK PUMP & RINSE CERTIFICATE

Tank Location	1: 9007 S 19th St.
	Tacoma, WA
accordance with 380(I), API I accordance with	Im Service, Inc. certifies that the above mentioned tank(s) have been triple rinsed in ith the industry standard as outlined in 40 CFR PART 280.70, WAC 173-360-604, API 2015 and that all residual product and rinsate has been disposed of in ith Federal, State and Local regulations. Tanks listed above are NOT GAS FREE FOR HOT WORK
Tank Owner:	Narrows Marina 9007 S 19th St. Tacoma, WA.
Contractor:	Pacific Environmental Services
M.V.S. Repre	sentative: Carl Kirschner
Date: 11-2	8-16
Notes:	

A MINORITY BUSINESS ENTERPRISE ID # D4M1302341



EPA # WAD980974521

Marine Vacuum Service, Inc.

GENERAL CONTRACTOR
CONTRACTORS LICENSE # MARINVS097JA

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

AST/UST STORAGE TANK PUMP & RINSE CERTIFICATE

Tank Size:	6,000 Gallon
Last Contents	Unleaded Gasoline
Tank Location	9007 S. 19th St.
	Tacoma, WA.
accordance wit 380(I), API 16 accordance wit	m Service, Inc. certifies that the above mentioned tank(s) have been triple rinsed in the industry standard as outlined in 40 CFR PART 280.70, WAC 173-360-604, API 2015 and that all residual product and rinsate has been disposed of in the Federal, State and Local regulations. Tanks listed above are NOT GAS FREE FOR HOT WORK
Tank Owner:	Narrows Marina 9007 19th St. Tacoma WA.
Contractor:	Pacific Environmental Services
M.V.S. Repres	entative: Carl Muschmer
Date: 11-2	8-16
Notes:	

DBE # D4M1302341

EPA # WAD980974521

A MINORITY BUSINESS ENTERPRISE ID # D4M1302341



APPENDIX E TANK INERTING PAPERWORK



P.O. BOX 16204 SEATHE, WA 98116 COCK 93-20-005 FAX (2006) 937-3848 WWW.SOUNDTESTINGING.COM SERIAL N. 46816 SERIAL N. 4681	SOUND TESTING, INC.	
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Diesel Table (3x Rinsel) 120.8 % or Diele 125 pan NDC - Water N5 % 02 Bottom Wort Tace - Resid in Bottom (May be Safe For Worker) NEATH - Not See for Workers NEATH - Not See for Workers Table for Workers (Sour - Cutting for Residue) 131.30 i	1) Diesel Fuel (2) Gasoline Or, 4	
120.8 Porton WD Ties Resid, in 3nthm. I May be Noted to Safe for Workers Resid, in 3nthm. I May be Noted to Safe for Workers Safe for Access Safe for Safe for Workers Safe for Safe for Safe for Workers Safe for Safe for Safe for Safe for Workers Safe for Safe for Safe for Workers Safe for Safe for Workers Safe for Safe for Workers Safe for Workers Safe for Safe for Safe for Safe for Safe for Safe for Workers Safe for	Lifer Three (3) Loadings Tests Perfor	med Time Survey Completed
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(425) 271-5629

APPENDIX F DISPOSAL RECEIPTS FOR USTS





1602 MARINE VIEW DRIVE TACOMA, WA 98422 PH: 253-572-6800 FAX: 253-572-5420 WWW.CALBAG.COM

Purchase Ticket

Purchase Ticket # Purchase Date 156198 11/29/16

Customer:

PACIFIC ENVIROMENTAL 8585 HW 20 PORT TOWNSEND, WA

Terms

Net 30 12/29/16

Item Name	Gros	s Tare	Net	Price	Total
Received: 11/29/2016	WT Ticket #S	11164184			
Unprepared	27,040.	0 23,180.0	3,860.0 LB	\$50.00 NTon	\$96.50
_	Totals: 27,040.	0 23,180.0	3,860.0		\$96.50





1602 MARINE VIEW DRIVE TACOMA, WA 98422 PH: 253-572-6800 FAX: 253-572-5420 WWW.CALBAG.COM

Purchase Ticket

Purchase Ticket # Purchase Date 156196 11/29/16

Customer:

PACIFIC ENVIROMENTAL 8585 HW 20 PORT TOWNSEND, WA

Terms

Net 30 12/29/16

Item Nar	ne		Gross	Tare	Net	Price	Total
Received:	11/29/2016	WT.	Ticket #S	11164195			
Unprepare	ed		30,220.0	23,100.0	6,620.0 LB	\$50.00 NTon	\$165.50
		Weight Adjusted	500.0	Dirt/Garbage			
	Contain	er Num 120		Cha	sis#		
		Totals:	30,220.0	23,100.0	6,620.0		\$165.50



APPENDIX G ANALYTICAL RESULTS FOR SOIL FROM TANK PIT



04/04/2017			
04/04/2017		Project:	Narrows
		Client ID:	N
Eco Compliance		Sample Matrix:	Soil
1823 Bremerton Ave NE		Date Sampled:	11/29/2016
Renton, WA 98059-3954		Date Received:	11/29/2016
Attn: Bill Kane		Spectra Project:	2016110773
		Spectra Number	: 1
		-	Rush
Analyte	Result	_Units	Method
Diesel	<10.0	mg/Kg	NWTPH-D
Oil	<50.0	mg/Kg	NWTPH-D
Gasoline	<2.5	mg/Kg	NWTPH-G
Total Lead	< 4	mg/Kg	SW846 6010C
Benzene	< 0.025	mg/Kg	SW846 8260C
Ethylbenzene	< 0.05	mg/Kg	SW846 8260C
Methyl-tert-Butyl Ether	< 0.05	mg/Kg	SW846 8260C
Toluene	< 0.05	mg/Kg	SW846 8260C
Total Xylenes	< 0.10	mg/Kg	SW846 8260C

Surrogate	% Recovery	Method	
Toluene-d8	95	NWTPH-G	
4-Bromofluorobenzene	76	NWTPH-G	
p-Terphenyl	62	NWTPH-D	

SPECTRA LABORATORIES

Joiney Cooper, Laboratory Manager

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0.410.412.01.2			
04/04/2017		Project:	Narrows
		Client ID:	W1
Eco Compliance		Sample Matrix:	Soil
1823 Bremerton Ave NE		Date Sampled:	11/29/2016
Renton, WA 98059-3954		Date Received:	11/29/2016
Attn: Bill Kane		Spectra Project:	2016110773
		Spectra Number	: 2
			Rush
Analyte	Result	Units	Method
Diesel	<10.0	mg/Kg	NWTPH-D
Oil	<50.0	mg/Kg	NWTPH-D
Gasoline	<2.5	mg/Kg	NWTPH-G
Total Lead	< 4	mg/Kg	SW846 6010C
Benzene	< 0.025	mg/Kg	SW846 8260C
Ethylbenzene	< 0.05	mg/Kg	SW846 8260C
Methyl-tert-Butyl Ether	< 0.05	mg/Kg	SW846 8260C
Toluene	< 0.05	mg/Kg	SW846 8260C
Total Xylenes	< 0.10	mg/Kg	SW846 8260C

Surrogate	% Recovery	Method	
Toluene-d8	95	NWTPH-G	
4-Bromofluorobenzene	78	NWTPH-G	
p-Terphenyl	69	NWTPH-D	

SPECTRA LABORATORIES

Cooper, Laboratory Manager

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04/04/2017		Project: Client ID:	Narrows E1
Eco Compliance		Sample Matrix:	Soil
1823 Bremerton Ave NE		Date Sampled:	11/29/2016
Renton, WA 98059-3954		Date Received:	11/29/2016
Attn: Bill Kane		Spectra Project:	2016110773
		Spectra Number:	3
			Rush
Analyte	Result	Units	Method
Diesel	<10.0	mg/Kg	NWTPH-D
Oil	<50.0	mg/Kg	NWTPH-D
Gasoline	<2.5	mg/Kg	NWTPH-G
Total Lead	10	mg/Kg	SW846 6010C
Benzene	< 0.025	mg/Kg	SW846 8260C
Ethylbenzene	< 0.05	mg/Kg	SW846 8260C
Methyl-tert-Butyl Ether	< 0.05	mg/Kg	SW846 8260C
Toluene	< 0.05	mg/Kg	SW846 8260C
Total Xylenes	< 0.10	mg/Kg	SW846 8260C

Surrogate	% Recovery	Method	
Toluene-d8	95	NWTPH-G	
4-Bromofluorobenzene	90	NWTPH-G	
p-Terphenyl	68	NWTPH-D	

SPECTRA LABORATORIES

Topic Cooper, Laboratory Manager

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04/04/2017		Project:	Narrows
		Client ID:	B1
Eco Compliance		Sample Matrix:	Soil
1823 Bremerton Ave NE		Date Sampled:	11/29/2016
Renton, WA 98059-3954		Date Received:	11/29/2016
Attn: Bill Kane		Spectra Project:	2016110773
		Spectra Number	: 4
		-	Rush
Analyte	Result	Units	Method
Diesel	<10.0	mg/Kg	NWTPH-D
Oil	< 50.0	mg/Kg	NWTPH-D
Gasoline	<2.5	mg/Kg	NWTPH-G
Total Lead	< 4	mg/Kg	SW846 6010C
Benzene	< 0.025	mg/Kg	SW846 8260C
Ethylbenzene	< 0.05	mg/Kg	SW846 8260C
Methyl-tert-Butyl Ether	< 0.05	mg/Kg	SW846 8260C
Toluene	< 0.05	mg/Kg	SW846 8260C
Total Xylenes	< 0.10	mg/Kg	SW846 8260C

Surrogate	% Recovery	Method	_
Toluene-d8	93	NWTPH-G	
4-Bromofluorobenzene	74	NWTPH-G	
p-Terphenyl	53	NWTPH-D	

SPECTRA LABORATORIES

Toffice Cooper, Laboratory Manager

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04/04/2017		Project:	Narrows
		Client ID:	W2
Eco Compliance		Sample Matrix:	Soil
1823 Bremerton Ave NE		Date Sampled:	11/29/2016
Renton, WA 98059-3954		Date Received:	11/29/2016
Attn: Bill Kane		Spectra Project:	2016110773
		Spectra Number:	; 6
			Rush
Analyte	Result	<u>Units</u>	Method
Diesel	<10.0	mg/Kg	NWTPH-D
Oil	<50.0	mg/Kg	NWTPH-D
Gasoline	<2.5	mg/Kg	NWTPH-G
Total Lead	6	mg/Kg	SW846 6010C
Benzene	< 0.025	mg/Kg	SW846 8260C
Ethylbenzene	< 0.05	mg/Kg	SW846 8260C
Methyl-tert-Butyl Ether	< 0.05	mg/Kg	SW846 8260C
Toluene	< 0.05	mg/Kg	SW846 8260C
Total Xylenes	< 0.10	mg/Kg	SW846 8260C

% Recovery	Method	
95	NWTPH-G	
82	NWTPH-G	
70	NWTPH-D	
	95 82	95 NWTPH-G 82 NWTPH-G

SPECTRA LABORATORIES

Johns Cooper, Laboratory Manager

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04/04/2017		Project: Client ID:	Narrows E2
Eco Compliance		Sample Matrix:	Soil
1823 Bremerton Ave NE		Date Sampled:	11/29/2016
Renton, WA 98059-3954		Date Received:	11/29/2016
Attn: Bill Kane		Spectra Project:	2016110773
		Spectra Number	: 7
			Rush
Analyte	Result	Units	<u>Method</u>
Diesel	<10.0	mg/Kg	NWTPH-D
Oil	<50.0	mg/Kg	NWTPH-D
Gasoline	<2.5	mg/Kg	NWTPH-G
Total Lead	12	mg/Kg	SW846 6010C
Benzene	< 0.025	mg/Kg	SW846 8260C
Ethylbenzene	< 0.05	mg/Kg	SW846 8260C
Methyl-tert-Butyl Ether	< 0.05	mg/Kg	SW846 8260C
Toluene	< 0.05	mg/Kg	SW846 8260C
Total Xylenes	< 0.10	mg/Kg	SW846 8260C

Surrogate	% Recovery	Method	
Toluene-d8	95	NWTPH-G	
4-Bromofluorobenzene	77	NWTPH-G	
p-Terphenyl	65	NWTPH-D	

SPECTRA LABORATORIES

Joffrey Cooper, Laboratory Manager

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04/04/2017		Projects	Nomovio
		Project:	Narrows
		Client ID:	B2
Eco Compliance		Sample Matrix:	Soil
1823 Bremerton Ave NE		Date Sampled:	11/29/2016
Renton, WA 98059-3954		Date Received:	11/29/2016
Attn: Bill Kane		Spectra Project:	2016110773
		Spectra Number:	8
			Rush
Analyte	Result	<u>Units</u>	Method
Diesel	<10.0	mg/Kg	NWTPH-D
Oil	<50.0	mg/Kg	NWTPH-D
Gasoline	<2.5	mg/Kg	NWTPH-G
Total Lead	13	mg/Kg	SW846 6010C
Benzene	< 0.025	mg/Kg	SW846 8260C
Ethylbenzene	< 0.05	mg/Kg	SW846 8260C
Methyl-tert-Butyl Ether	< 0.05	mg/Kg	SW846 8260C
Toluene	< 0.05	mg/Kg	SW846 8260C
Total Xylenes	< 0.10	mg/Kg	SW846 8260C

Surrogate	% Recovery	Method	
Toluene d8	93	NWTPH-G	
4-Bromofluorobenzene	80	NWTPH-G	
p-Terphenyl	62	NWTPH-D	

SPECTRA LABORATORIES

Clircy Cooper, Laboratory Manager

a5/jac

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0110112011		Project:	Narrows
		Client ID:	S
Eco Compliance		Sample Matrix:	Soil
1823 Bremerton Ave NE		Date Sampled:	11/29/2016
Renton, WA 98059-3954		Date Received:	11/29/2016
Attn: Bill Kane		Spectra Project:	2016110773
		Spectra Number:	5
			Rush
Analyte	Result	Units	Method
Diesel	<10.0	mg/Kg	NWTPH-D
Oil	<50.0	mg/Kg	NWTPH-D
Gasoline	<2.5	mg/Kg	NWTPH-G
Total Lead	8	mg/Kg	SW846 6010C
Benzene	< 0.025	mg/Kg	SW846 8260C
Ethylbenzene	< 0.05	mg/Kg	SW846 8260C
Methyl-tert-Butyl Ether	< 0.05	mg/Kg	SW846 8260C
Toluene	< 0.05	mg/Kg	SW846 8260C
Total Xylenes	< 0.10	mg/Kg	SW846 8260C

Surrogate	% Recovery	Method	
Toluene-d8	93	NWTPH-G	
4-Bromofluorobenzene	80	NWTPH-G	
p-Terphenyl	57	NWTPH-D	

SPECTRA LABORATORIES

Jeffrey Cooper, Laboratory Manager

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04/04/2017

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Client: Explant plants Client: Explant plants Client Contact: Bull Lang 206715 Time: 8:50 Time: 8:50 Froject: 201410772 Froject: 201410772 Saugee In # 5 - 1498 "My with In on Containing



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APPENDIX H

ANALYTICAL RESULTS FOR SOIL/MUD FROM BOTTOM OF TANK PIT



04/04/2017		Project:	Narrows
		Client ID:	SP1
Eco Compliance		Sample Matrix:	Soil
1823 Bremerton Ave NE		Date Sampled:	12/13/2016
Renton, WA 98059-3954		Date Received:	12/13/2016
Attn: Bill Kane		Spectra Project:	2016120303
		Spectra Number:	: 1
			Rush
Analyte	Result	<u>Units</u>	Method
Diesel	<10.0	mg/Kg	NWTPH-D
Oil	58	mg/Kg	NWTPH-D
Gasoline	<5	mg/Kg	NWTPH-G
Total Lead	7	mg/Kg	SW846 6010C
Benzene	< 0.025	mg/Kg	SW846 8260C
Ethylbenzene	< 0.05	mg/Kg	SW846 8260C
Methyl-tert-Butyl Ether	< 0.05	mg/Kg	SW846 8260C
Toluene	< 0.05	mg/Kg	SW846 8260C
Total Xylenes	< 0.10	mg/Kg	SW846 8260C

Surrogate	% Recovery	Method	
Tolume-d8	91	NWTPH-G	
4-Bromofluorobenzene	74	NWTPH-G	
p-Terphenyl	64	NWTPH-D	

SPECTRA LABORATORIES

effrey Cooper, Laboratory Manager

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04/04/2017		Project:	Narrows
		•	
		Client ID:	SP2
Eco Compliance		Sample Matrix:	Soil
1823 Bremerton Ave NE		Date Sampled:	12/13/2016
Renton, WA 98059-3954		Date Received:	12/13/2016
Attn: Bill Kane		Spectra Project:	2016120303
		Spectra Number	: 2
		-	Rush
Analyte	Result	Units	Method
Diesel	<10.0	mg/Kg	NWTPH-D
Oil	<50.0	mg/Kg	NWTPH-D
Gasoline	<5	mg/Kg	NWTPH-G
Total Lead	7	mg/Kg	SW846 6010C
Benzene	< 0.025	mg/Kg	SW846 8260C
Ethylbenzene	< 0.05	mg/Kg	SW846 8260C
Methyl-tert-Butyl Ether	< 0.05	mg/Kg	SW846 8260C
Toluene	< 0.05	mg/Kg	SW846 8260C
Total Xylenes	< 0.10	mg/Kg	SW846 8260C

Surrogate	% Recovery	Method
Toluene-d8	89	NWTPH-G
4-Bromofluorobenzene	80	NWTPH-G
p-Terphenyl	66	NWTPH-D

SPECTRA LABORATORIES

they Cooper, Laboratory Manager

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04/04/2017		Project:	Narrows
		Client ID:	SP3
Eco Compliance		Sample Matrix:	Soil
1823 Bremerton Ave NE		Date Sampled:	12/13/2016
Renton, WA 98059-3954		Date Received:	12/13/2016
Attn: Bill Kane		Spectra Project:	2016120303
		Spectra Number:	: 3
			Rush
Analyte	Result	_Units	Method
Diesel	14.8	mg/Kg	NWTPH-D
Oil	60	mg/Kg	NWTPH-D
Gasoline	<5	mg/Kg	NWTPH-G
Total Lead	12	mg/Kg	SW846 6010C
Benzene	< 0.025	mg/Kg	SW846 8260C
Ethylbenzene	< 0.05	mg/Kg	SW846 8260C
Methyl-tert-Butyl Ether	< 0.05	mg/Kg	SW846 8260C
Toluene	< 0.05	mg/Kg	SW846 8260C
T (137 1	.0.10		

< 0.10

mg/Kg

Surrogate	% Recovery	Method	_
Toluene-d8	89	NWTPH-G	
4-Bromofluorobenzene	73	NWTPH-G	
p-Terphenyl	68	NWTPH-D	

SPECTRA LABORATORIES

Total Xylenes

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SW846 8260C



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APPENDIX I GROUNDWATER ANALYTICAL RESULTS



04/04/2017	Project:	Narrows
	Client ID:	GW

Eco ComplianceSample Matrix:Water1823 Bremerton Ave NEDate Sampled:12/20/2016Renton, WA 98059-3954Date Received:12/20/2016Attn: Bill KaneSpectra Project:2016120563

Spectra Number: 1

Analyte	Result	_Units	Method
Diesel	<100	μg/L	NWTPH-D
Oil	< 500	μg/L	NWTPH-D
Gasoline	<50	μg/L	NWTPH-G
1,2-Dibromoethane (EDB)	<0.4 J*	μg/L	SW846 8260C
1,2-Dichloroethane	<1	μg/L	SW846 8260C
Benzene	<1	μg/L	SW846 8260C
Ethylbenzene	<1	μg/L	SW846 8260C
Methyl-tert-Butyl Ether	<1	μg/L	SW846 8260C
Toluene	<1	μg/L	SW846 8260C
Total Xylenes	<2	μg/L	SW846 8260C

^{*}Laboratory determined method detection limit (MDL) is 0.4 ug/L and pratical quantitation limit (PQL) is 1 ug/L. Result has been reported to the MDL.

Surrogate	% Recovery	Method	
4-Bromofluorobenzene	85	NWTPH-G	
Toluene-d8	87	NWTPH-G	
n-Temberyl	81	NWTPH.D	

SPECTRA LABORATORIES

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	P.O.#:	COD
	Project:	Narrows
	Client ID:	Tank
	Sample Matrix:	Water
	Date Sampled:	12/21/2016
	Date Received:	12/21/2016
	Spectra Project:	2016120536
	Spectra Number:	: 1
		Rush
Result	<u>Units</u>	Method
< 0.015	mg/L	EPA 200.8
<100	μg/L	NWTPH-D
<500	μg/L	NWTPH-D
<50	μg/L	NWTPH-G
<0.4 J*	μg/L	SW846 8260C
<1	μg/L	SW846 8260C
<2	μg/L	SW846 8260C
	<0.015 <100 <500 <50 <0.4 J* <1 <1 <1 <1	Project: Client ID: Sample Matrix: Date Sampled: Date Received: Spectra Project: Spectra Number: We will be a summer of the s

^{*}Laboratory determined method detection limit (MDL) is 0.4 ug/L and pratical quantitation limit (PQL) is 1 ug/L. Result has been reported to the MDL.

Surrogate	% Recovery	Method
4-Bromofluorobenzene	80	NWTPH-G
Toluene-d8	91	NWTPH-G
p-Tembered	84	NWTPH-D

SPECTRA LABORATORIE

Jeffrey Cooper, Laboratory Manager

a5/scj

Page 1 of 1



SPECTRA Laboratorics 222 Ross Way, Tacoma, WA 99421 223 Ross Way, Tacoma, WA 99421 224 Ross Way, Tacoma, WA 99421 225 Ross Way, Tacoma, WA 99421 226 Ross Way, Tacoma, WA 99421 227 Ross Way, Tacoma, WA 99421 228 Ross Way, Tacoma, WA 99421 228 Ross Way, Tacoma, WA 99421 229 Ross Way, Tacoma, WA 99421 220 Ross Ross Way, Tacoma, WA 99421 221 Ross Way, Tacoma, WA 99421 220 Ross Ross Way, Tacoma, Way, Tacom	SPECTRA Laboratoric 2221 Ross Way, Tacoma, WA 98421 (253) 272-4850 Fax (253) 572-9838 www.spectra-lab.com info@spectra-lab.cc CUIENT: Evo Cony//an.ee PROJECT: Marrellan.ee SAMPLED BY: BIII/An.e PHONE: 2018-7/39/L FAX: e-MAIL: Mile election flux eights of standing sample id SAMPLED BY: BIII/An.e PURCHASE ORDER # SAMPLE ID SAM	- JA	Due by	10	21-86		CHAI	NOF	CISTO	6
Tacoma, WA 98421 Fax (233) 572-9838 In info@spectra-lab.com Inf	2221 Ross Way, Tacoma, WA 98421 (253) 272-4850 Fax (253) 572-9838 www.spectra-lab.com info@spectra-lab.cc CLIENT: Evo Complan.ce PROJECT: Mallellan.ce SAMPLED BY: BILLAN.e PHONE: 200 Ff 199 Fax: e-Mall: Mile election fine or e-mail PURCHASE ORDER # SAMPLED SAMPLED Tank 1727% NA	A	7)		L				000	
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APPENDIX J ECOLOGY PAPERWORK





PERMANENT CLOSURE NOTICE

FOR UNDERGROUND STORAGE TANKS

UST ID #:	
County:	Pièrce

This notice certifies that permanent closure activities were performed and conducted in accordance with Chapter 173-360 WAC. Instructions are found on the back page.

	I. UST FACILITY			II. OWNER/OP	ERATOR INFORMA	TION
Facility Compliance Ta	Facility Compliance Tag #: 643/9 Owner/Operator Name: Narrows Marina, LL					
UST ID #: 4756 Business Name: Narrows Maring, LLC.						,
Site Name: Narrows Maring Address: 9007 South 19th Street						
Site Address: 9007 South 19th Hreat City: Tacoma State:WA Zip: 9846						
City: Yalloma Phone: 253-564-3032						
Phone: 253-564-3032 Email: SWagner enarrowsmaring.com						rina.com
III. CERTIFIED UST DECOMMISSIONER						
Company Name: PACIFIC Environment A/ Service Provider Name: CARL ESCENE						
127 1967	x 2049		Certification	on Type: CC		
	Send State	JA Zip/8/36	Cert. No.:		Exp. Date:	
Provider Phone: 3 @	0-385-425	3/	Provider E	mail:		
Provider Signature: C. Sano Iscue Date: 11-29-16						
IV. TANK INFORMATION						
TANK ID	TANK CAPACITY	IV. TANK LAST SUBSTANCE	INFORMATION	CLOSURE METHO	DD .	CLOSURE DATE
TANK ID	TANK CAPACITY	IV. TANK LAST SUBSTANCE STORED	INFORMATION	CLOSURE METHO	oD change-in-service	CLOSURE DATE
TANK ID		IV. TANK LAST SUBSTANCE STORED DIESE!	INFORMATION	CLOSURE METHO	DD .	CLOSURE DATE
TANKID 1 2	TANK CAPACITY	IV. TANK LAST SUBSTANCE STORED DIESE!	INFORMATION	CLOSURE METHO	oD change-in-service	
1	TANK CAPACITY	IV. TANK LAST SUBSTANCE STORED DIESE!	INFORMATION removal	CLOSURE METHO	change-in-service	1129-16
1	TANK CAPACITY	IV. TANK LAST SUBSTANCE STORED DIESE!	INFORMATION removal	CLOSURE METHO closed-in-place	change-in-service	1129-16
1	TANK CAPACITY	IV. TANK LAST SUBSTANCE STORED DIESE!	removal	CLOSURE METHO closed-in-place	change-in-service	1129-16
1	TANK CAPACITY	IV. TANK LAST SUBSTANCE STORED DIESE!	removal M C C C C C C C C C C C C	CLOSURE METHO closed-in-place	change-in-service	1129-16
1	TANK CAPACITY	IV. TANK LAST SUBSTANCE STORED DICSC! Gasoline	removal X U U U U U U U U U U U U	CLOSURE METHO closed-in-place	change-in-service	1129-16
2	TANK CAPACITY	IV. TANK LAST SUBSTANCE STORED DICSC! GASOLING V. REQUIE	removal M M	CLOSURE METHO dosed-in-place	change-in-service	112916 112916
2	4,000 gal 6,000 gal	IV. TANK LAST SUBSTANCE STORED DICSC! GASOLING V. REQUIE	removal M M	CLOSURE METHO closed-in-place	change-in-service	112916 112916

ECY 020-94 (October 2015)



(425) 271-5629

UST ID #:	
County:	Pierce



SITE CHECK/SITE ASSESSMENT CHECKLIST

FOR UNDERGROUND STORAGE TANKS

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

* * * * * * * * * * * * * * * * * * * *	I. UST FA	ACILITY	II. OWNER/OPERA	ATOR INFORMATION
Facili	ty Compliance Tag #:	34319	Owner/Operator Name:	varrowi Manna, LLC
UST	D#: 4756		Business Name: Narro	Wr Marina LLC
Site I	Name: Narrows /	narina	Address: 9007 Sout	h 19th Arect
Site /	Address: 9007 South	19th Arest	City: Tacoma	State: WA Zip: 98466
City:	Tacoma		Phone: 253-564-32	032
Phon	e: 253-564-	3032	Email: Swagner ena	crowsmarina.40m
		III. CERTIFIED	SITE ASSESSOR	1.0
Servi	ce Provider Name: Bi	11 Kane	Company Name: Eco Co Address: 1823 Bremer	impliance corporation
Cell I	Phone: 206-715-1396 Email	· bille ecocompliance biz	Address: 1823 Bremer	ton Avenue NE
Certi	fication #:	Exp. Date:	City: Renton	State: WA Zip: 9589
9		IV. TANK IN	FORMATION	
	TANK ID	TANK CAPACITY	LAST SUBSTANCE STORED	DATE SITE CHECK OR ASSESSMENT CONDUCTED
	ı	4000 gallong	Diesel	11-29-16
	2.	6000 gallors	6asoline	11-29-16
		, ,		
	V. Rea	SON FOR CONDUCTING SITE	CHECK/SITE ASSESSMENT (che	ck one)
×	Release investigation follo	owing permanent UST system	closure (i.e. tank removal or c	losure-in-place).
	Release investigation follo	owing a failed tank and/or line	e tightness test.	
	Release investigation follo	owing discovery of contamina	ted soil and/or groundwater.	
	Release investigation dire	cted by Ecology to determine	if the UST system is the sourc	e of offsite impacts.
		a "change-in-service", which -regulated substance (e.g. wa	is changing from storing a reg ter).	ulated substance (e.g.
	Directed by Ecology for U	ST system permanently closed	d or abandoned before 12/22/	1988.
	Other (describe):			

ECY 010-158 (Rev. Jan. 2015)



(425) 271-5629

m :	VI. CHECKLIST		us ti
	The site assessor must check each of the following items and include it in the report. Sections referenced below can be found in the Ecology publication Guidance for Site Checks and Site Assessments for Underground Storage Tanks.	YES	NO
1.	The location of the UST site is shown on a vicinity map.	X	
2.	A brief summary of information obtained during the site inspection is provided (Section 3.2)	Ø	
3.	A summary of UST system data is provided (Section 3.1)	文	
4.	The soils characteristics at the UST site are described. (Section 5.2)	S#	
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)	34	
7.	The name and address of the laboratory used to perform analyses is provided. The methods used to collect and analyze the samples, including the number and types of samples collected, are also documented in the report. The data from the laboratory is appended to the report.	X	
8.	The following items are provided in one or more sketches:		
	Location and ID number for all field samples collected	奥	Q
	If applicable, groundwater samples are distinguished from soil samples	À	
	Location of samples collected from stockpiled excavated soil	χį	
	Tank and piping locations and limits of excavation pit	双	
	Adjacent structures and streets	ĴΧĮ	
	Approximate locations of any on-site and nearby utilities		X
9.	If sampling procedures are different from those specified in the guidance, has justification for using these alternative sampling procedures been provided? (Section 3.4)) X 0	
10	A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method, and detection limit for that method. Any sample exceeding MTCA Method A cleanup standards are highlighted or bolded.	K	
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 of a regulated substance has occurred. The requirements for reporting confirmed releases can be found in WAC 173-360-372.		K
	VII. REQUIRED SIGNATURES		
	Signature acknowledges the Site Check or Site Assessment complies with UST regulations WAC 173-360-360 through	-39 5.	
	BITIKANE, ECO COMPLIANCE BITIKANE 11-29 Inter Type Name Signature of Certified Site Assessor Date	9-16	<i>'</i>
Pri	nt or Type Name Signature of Certified Site Assessor Date		

ECY 010-158 (Rev. Jan. 2015)

