

September 25, 2012

Mr. Narain Naidu Kris's Mini Mart 6000 Portal Way Ferndale, WA 98248

RE: Underground Storage Tank Site Check – Kris's Mini Mart – 6000 Portal Way, Ferndale, Washington (UST Site ID# 8969/Facility Site ID# 96443724)

Mr. Naidu:

Whatcom Environmental Services Inc. has completed an Underground Storage Tank (UST) Site Check for the UST system located at 6000 Portal Way in Ferndale, Washington. The Site Check was conducted following the discovery of a hole in the super unleaded tank (Tank ID#:40536) on July 27, 2012. The leak was located in the bottom of the tank near the dipstick striker plate on the north end of the UST. The leaking tank was reported to Ecology (ERTS #636609). The tank was repaired in August 2012.

Soil and groundwater samples were collected as part of the Site Check. Soil samples were collected from the four sides of the tank pit (outside of the tank pit footprint) via direct push soil borings in accordance with Ecology's *Guidance for Site Checks and Site Assessments for Underground Storage Tanks* (Ecology, 2003). Groundwater samples were collected from all soil borings.

Field screening and soil sample analytical results indicated that soil on the south side of the tank pit has been impacted by gasoline-range total petroleum hydrocarbons (TPH) at concentrations exceeding the Model Toxics Control Act (MTCA) Method A target cleanup level. Groundwater analytical results show that shallow groundwater located south and southeast of the tank pit has been impacted by gasoline range TPH and benzene at concentrations exceeding the MTCA Method A cleanup levels.

This letter report was prepared by Whatcom Environmental Services and the information provided in the report supplements the completed UST Site Check/Site Assessment Checklist, included in Appendix A.

Site Setting

The site is currently an operational retail fueling station. The property has been in use as a retail fueling station for an unknown period of time. The site is listed in the Ecology UST database. The property has been assigned the Facility Site ID#: 96443724. Four operational USTs are located on the subject property; two regular unleaded tanks (10,000 and 8,000 gallon), one super unleaded tank (8,000 gallon), and one diesel tank (6,000 gallon). The site is also listed in the Leaking UST (LUST) database with its status listed as 'Cleanup Started'. Four historical tanks were removed from the site during a 1990s facility upgrade which razed the entire property and rebuilt a new fueling station and convenience store.

The subject property is situated approximately 0.1 miles east of Interstate 5 (I-5) Freeway Exit# 263, approximately 0.35 miles north of the Nooksack River, and approximately 0.9 miles north/northeast of the city of Ferndale's downtown business core. The site is zoned as Highway Commercial by the City of Ferndale. The site is bordered on the north and east by commercial and rural residential properties; on the west by I-5 and Portal Way; and on the south by other rural residential properties. There are no parks or sensitive wildlife areas located within 500 feet of the site. A site location map is provided as Figure 1. A map showing all pertinent site features is provided as Figure 2.

The subject property has a median elevation of approximately 40 feet above mean sea level and the site topography is generally flat. The property is covered by asphalt pavement and two structures; a convenience store and fuel dispenser canopy. Storm water is collected in catch basins and routed through an oil/water separator located in the southwest corner of the subject property.

Soils in the area of the subject property are described in the Soil Survey of Whatcom County Area Washington (USDA, 1992). Soils at the property are described as Tromp loam with slopes ranging from 0 to 2 percent. The Tromp loam is a very deep, moderately-well drained soil that formed in a mixture of volcanic ash and loess over glacial outwash. The site is underlain by glacial outwash of the Sumas Stade of the Pleistocene Epoch (WSDNR, 2000). The outwash consists of loose, moderately to well-sorted gravels, sandy gravels, and coarse to medium sands with rare areas of fine sand and silt. Bedding is massive to well-stratified. Color is brown to gray depending on oxidation state. Thickness ranges from 3 meters to as much as 280 meters.

Field evidence confirmed that the site is underlain by the glacial outwash of the Sumas Stade. The general geologic sequence encountered in the soil borings was:

- 0 to 0.33 ft Asphalt
- 0.33 to 1 ft Imported fill material consisting of gravel and silty sandy gravel. This material was likely used to level the site prior to development.
- 1 to 15 ft Native soil consisting of brown medium sand that was loose and moist to wet (at depth).

Tank pit fill material consisting of pea gravel was encountered from below the asphalt to 2.5 feet below ground surface (bgs) in boring GPB-1.

Groundwater was encountered in every soil boring at a depth of approximately 6 feet below ground surface (bgs). Seven groundwater monitoring wells are currently located on the subject property. Groundwater at the site generally flows from the north to the south/southeast with a relative gradient of approximately 0.011 ft/ft.

Tank Information

The super unleaded tank (Tank ID#:40536) was taken out of service in 2010 when water was discovered in the tank. The fuel was removed from the tank and the tank was pumped dry. A tank and line tightness test were conducted. The test results did not confirm a leak was present despite the fact that the tank continued to fill with water after having been pumped dry several times. The water was presumed to be entering the tank through a faulty riser pipe, however during an attempt to inspect the riser pipe a hole was discovered in the bottom of the tank on July 27, 2012 (ERTS #636609). The tank had failed along a weld line on the edge of the dipstick striker plate. The hole was repaired by Northwest Tank Lining and Inspection, Inc. in August 2012. The Site Check was conducted following repair of the tank per Underground Storage Tank Regulation WAC 173-360-370 (2).

The tank construction information was obtained from Ecology's UST information database available online. The 8,000 gallon super unleaded UST is a single-walled, coated-steel tank with automatic tank gauging and corrosion protective sacrificial

anodes. The piping associated with the tank is single-walled fiberglass pipe with an automatic leak detection system.

Site Check Investigation

Soil and groundwater samples were collected during the Site Check investigation. Soil samples were collected from the vadose zone (approximately 6 feet bgs) from soil borings drilled on all four sides of the tank pit in accordance with the Ecology Guidance for Site Checks and Site Assessments for Underground Storage Tanks (Ecology, 2003). One soil sample was also collected from 15 feet bgs in boring GPB-5 to check soil below the level of the UST bottoms. Groundwater samples were collected from each soil boring.

The six soil borings were drilled by Cascade Drilling using a direct-push hydraulic and percussion drive-point sampling system (GeoProbe) on September 10, 2012. The borings were named GPB-1 through GPB-6. Subsurface utilities were located prior to commencing drilling using both public and private location services. Each soil boring location was hand excavated to 5 feet bgs using a hand auger to verify the boring locations were free of hidden or unmarked utilities. Soil was field screened as the boring location was cleared and logged on a boring log sheet. Soil boring and utility locations are shown on Figure 2. Soil boring logs are included in Appendix B.

The sampling equipment was decontaminated prior to drilling each test hole. The borings were continuously cored to depths of 15 feet below grade. Soil cores were logged in the field and soil descriptions generally followed ASTM D 2487 'Unified Soil Classification System' procedures for description and identification of soils. The soil cores were field screened for petroleum products using a photoionization detector (PID) to evaluate organic vapor concentrations and by conducting sheen tests. Immediately after the soil cores were described a portion of the sample was sheen tested and the remainder of the sample was placed in labeled re-sealable bags. Sheen test results were recorded as: NS – no sheen, VSS – very slight sheen, SS – slight sheen, MS – moderate sheen, and HS – heavy sheen. The PID was inserted into the re-sealable bag and a headspace reading was measured and organic vapor concentrations in parts per million (ppm) were recorded on the boring logs. Soil samples were collected in containers provided by the laboratory and stored in a cooler with ice.

Groundwater samples were collected from each soil boring. A clean 1-inch diameter, machine-cut PVC well screen was inserted into the boring hole and polyethylene tubing was used to withdraw water using a peristaltic pump. The pump

was run for approximately 5 minutes before sample collection. Each sample was collected when the purge water turbidity decreased. Groundwater samples were collected in preserved bottles provided by the lab.

Soil and groundwater samples collected from the site were analyzed for gasoline range TPH using Method NWTPH-Gx; methyl-tertiary butyl ether (MTBE), benzene, toluene, ethylbenzene, and total xylenes (BTEX) constituents using EPA Method 8021; 1,2-Dichloroethane (EDC) and 1,2-Dibromoethane (EDB) via EPA Method 8260; and lead via EPA Method 6020.

At the completion of the project the soil borings were backfilled to the surface using bentonite-based grout materials specified in WAC 173-160.

Soil Sample Results

Soil sample descriptions and field screening results are summarized in Table 1 and on the boring logs included in Appendix B. Soil sample analytical results are summarized in Table 2. The original laboratory analytical report is included in Appendix C.

Soil Boring GPB-1: Soil cores collected from boring GPB-1 did not show field evidence of petroleum contamination. The sample collected at a depth of 6 feet did not contain detectable concentrations of petroleum constituents.

Soil Boring GPB-2: Soil cores collected from boring GPB-2 did not show field evidence of petroleum contamination. The sample collected at a depth of 6 feet did not contain detectable concentrations of petroleum constituents.

Soil Boring GPB-3: Soil cores collected from boring GPB-3 did not show field evidence of petroleum contamination. The sample collected at a depth of 6 feet did not contain detectable concentrations of petroleum constituents.

Soil Boring GPB-4: Soil cores collected from boring GPB-4 did show field evidence of petroleum contamination. An organic vapor reading of 218 ppm was recorded on the PID and very slight sheens were observed. The sample collected at a depth of 6.5 feet contained detectable concentrations of petroleum constituents.

Soil Boring GPB-5: Two soil samples were collected from boring GPB-5. One sample was collected at 6 feet bgs and the other at the bottom of the boring, at 15 feet bgs. The soil cores collected from boring GPB-5 did show field evidence of petroleum contamination. Organic vapor readings ranging from 5 ppm to 428 ppm were recorded

on the PID and very slight to moderate sheens were observed. The sample collected at a depth of 6 feet contained gasoline range TPH at a concentration of 460 mg/kg, which exceeded the MTCA Method A target cleanup level of 100 mg/kg. The sample collected at a depth of 15 feet did not contain detectable concentrations of petroleum constituents.

Soil Boring GPB-6: Soil cores collected from boring GPB-6 did not show field evidence of petroleum contamination. The sample collected at a depth of 6 feet did not contain detectable concentrations of petroleum constituents.

Groundwater Sample Results

Groundwater sample analytical results are summarized in Table 3. The original laboratory analytical report is included in Appendix D.

Soil Boring GPB-1: A groundwater sample collected from soil boring GPB-1 did not show evidence of petroleum contamination.

Soil Boring GPB-2: A groundwater sample collected from soil boring GPB-2 did not show evidence of petroleum contamination.

Soil Boring GPB-3: A groundwater sample collected from soil boring GPB-3 did not show evidence of petroleum contamination.

Soil Boring GPB-4: A groundwater sample collected from boring GPB-4 showed evidence of gasoline range TPH and BTEX contamination. The sample contained gasoline range TPH at a concentration of 7,000 μ g/L which exceeded the MTCA Method A cleanup level of 800 μ g/L. BTEX constituents were detected at concentrations which met the MTCA Method A cleanup levels. MTBE, EDB, and EDC were not detected at levels exceeding the laboratory reporting limit.

Soil Boring GPB-5: A groundwater sample collected from boring GPB-5 showed evidence of gasoline range TPH and BTEX contamination. The sample contained gasoline range TPH at a concentration of 6,900 μ g/L which exceeded the MTCA Method A cleanup level of 1,000 μ g/L. Toluene, ethylbenzene, and xylenes were detected at concentrations which met the MTCA Method A cleanup levels. Benzene, MTBE, EDB, and EDC were not detected at levels exceeding the laboratory reporting limit.

Soil Boring GPB-6: A groundwater sample collected from soil boring GPB-6 did not show evidence of petroleum contamination.

Discussion

The soil and groundwater samples collected during the Site Check met the MTCA Method A target cleanup levels, with the exception of the soil and groundwater samples collected on the south and southeast sides of the tank pit (GPB-4 and GPB-5). Groundwater was consistently encountered at a depth of approximately 6 feet bgs at all soil boring locations and it was at that depth in the impacted borings where contamination was at its greatest concentration based on field screening evidence. Soil at a depth of 15 feet bgs in boring GPB-5 did not appear to have been impacted by petroleum contamination which indicates that the contamination present at the site is concentrated near the groundwater surface. The groundwater samples collected from GPB-4 (southeast) and GPB-5 (south) contained concentrations of gasoline range TPH which exceeded the MTCA Method A cleanup levels, indicating that groundwater contained in the tank pit backfill material has been impacted by petroleum compounds. The detection of contamination to the south and southeast of the UST pit correlates with historically measured groundwater surface gradients and estimated flow directions.

Conclusions

Field screening and soil sample analytical results indicate that a release of gasoline range petroleum product has occurred to soil on the south and southeast sides of the UST pit. The soil sample collected from 6 feet bgs from boring GPB-5 contained gasoline range TPH at a concentration which exceeded the MTCA Method A target cleanup level.

Groundwater analytical results indicate that that a release of gasoline range petroleum product has occurred to groundwater on the south and southeast sides of the UST pit. Groundwater samples collected from borings GPB-4 and GPB-5 contained gasoline range TPH at concentrations which exceeded the MTCA Method A cleanup levels.

Limitations

No site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. Performance of this work by Whatcom Environmental Services is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions. No warranty, express or implied, is given regarding the presence of hidden or unidentified

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Whatcom Environmental Services

sources of contamination. Whatcom Environmental Services, Inc. has prepared this report for the exclusive use of Mr. Narain Naidu and his authorized agents, and regulatory agencies. This report is not intended for use by others and the information contained herein is not applicable to other sites.

Please use this letter and the attached site location Figures, Tables, UST Site Check/Site Assessment Checklist, and soil analytical data to document compliance with Underground Storage Tank Site Check requirements.

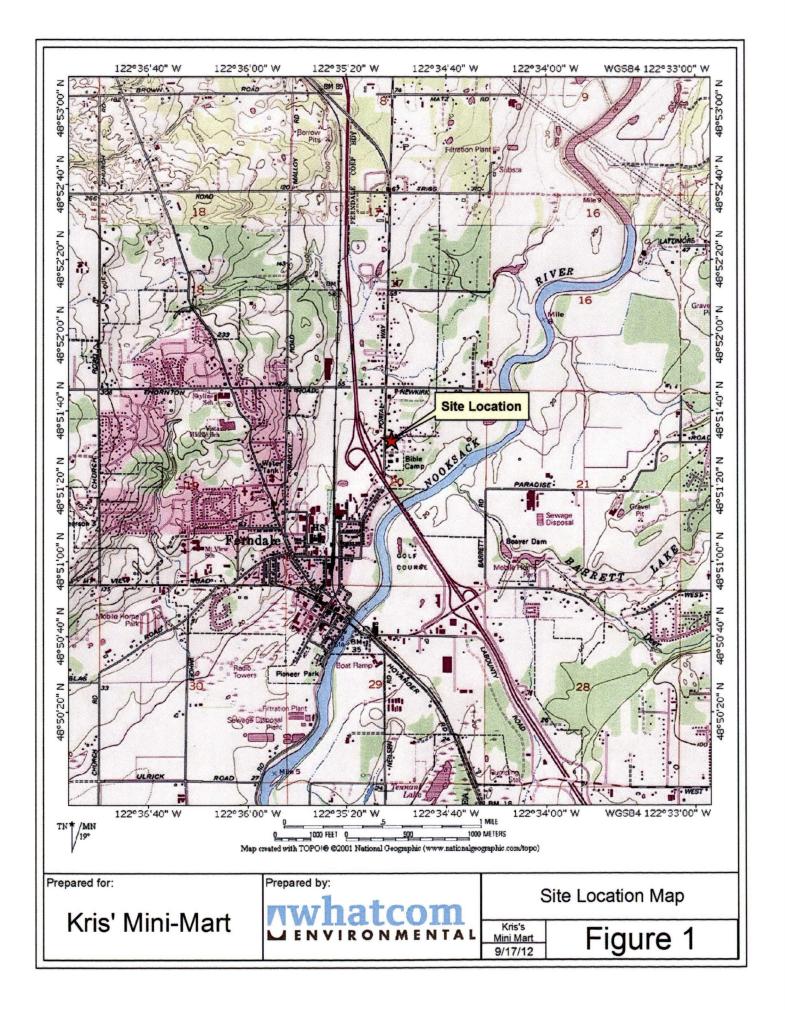
Sincerely,

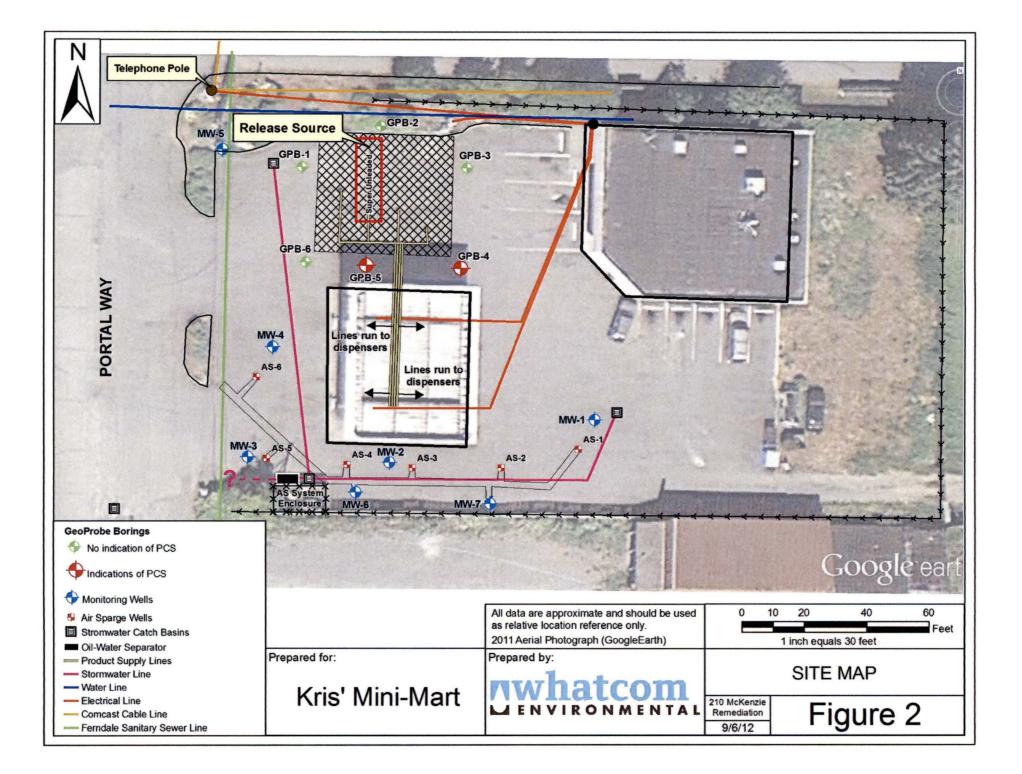


Harold Cashman Whatcom Environmental Services WA UST Site Assessor #8023553

References

- U.S. Department of Agriculture (USDA). 1992. Soil Survey of Whatcom County Area, Washington. Soil Conservation Service. 481 pp.
- Washington State Department of Ecology. 1998. Underground Storage Tank Statute and Regulations Chapter 173-360 WAC. Publication No. 95-604.
- Washington State Department of Ecology. 2001. Model Toxics Control Act Cleanup Regulation Chapter 173-340 WAC. Publication No. 94-06. February 12, 2001.
- Washington State Department of Ecology. 2003. Guidance for Site Checks and Site Assessments for Underground Storage Tanks. Publication # 90-52.
- Washington State Department of Natural Resources (WADNR). 2000. Geologic Map of the Bellingham 1:100,000 Quadrangle, Washington. Open File Report 2000-5.





Sample ID	Date	Depth (ft)	Location and Description	Sheen Test*	PID (ppm)
GPB-1 6ft	9/10/12	6.0	Collected from west side of UST pit Medium sand, brown, loose, wet	NS	0
GPB-2 6ft	9/10/12	6.0	Collected from north side of UST pit Medium sand, brown, loose, wet	NS	0
GPB-3 6ft	9/10/12	6.0	Collected from east side of UST pit Medium sand, brown, loose, wet	NS	0
GPB-4 6.5ft	9/10/12	6.5	Collected from southeast corner of UST pit Medium sand, brown, loose, wet	VSS	218
GPB-5 6ft	9/10/12	6.0	Collected from south side of UST pit Medium sand, brown, loose, wet	MS	428
GPB-5 15ft	9/10/12	15.0	Collected from south side of UST pit Medium sand, brown, loose, wet	NS	0
GPB-6 6ft	9/10/12	6.0	Collected from southwest corner of UST pit Medium sand, brown, loose, wet	NS	0

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Table 1. Soil Sample Descriptions - 6000 Portal Way, Ferndale

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

All samples collected using EPA Method 5035A

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Sample ID	Date	NWTPH-Gx Gasoline 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-8260 EDC mg/kg	EPA-8260 EDB mg/kg	EPA-6020 Lead mg/kg
MTCA Metho up Levels	d A Clean-	100/30*	0.03	7	6	9	0.1		0.005	250
GPB-1 6ft	09/10/12	ND(<3.0)	ND(<0.030)	ND(<0.050)	ND(<0.050)	ND(<0.20)	ND(<0.10)	ND(<0.01)	ND(<0.005)	NA
GPB-2 6ft	09/10/12	ND(<3.0)	ND(<0.030)	ND(<0.050)	ND(<0.050)	ND(<0.20)	ND(<0.10)	ND(<0.01)	ND(<0.005)	NA
GPB-3 6ft	09/10/12	ND(<3.0)	ND(<0.030)	ND(<0.050)	ND(<0.050)	ND(<0.20)	ND(<0.10)	ND(<0.01)	ND(<0.005)	NA
GPB-4 6.5ft	09/10/12	5.2	ND(<0.030)	ND(<0.050)	ND(<0.050)	ND(<0.20)	ND(<0.10)	ND(<0.01)	ND(<0.005)	2.1
GPB-5 6ft	09/10/12	460	ND(<0.30)	ND(<0.50)	ND(<0.50)	ND(<2.0)	ND(<1.0)	ND(<0.01)	ND(<0.005)	2.2
GPB-5 15ft	09/10/12	ND(<3.0)	ND(<0.030)	ND(<0.050)	ND(<0.050)	ND(<0.20)	ND(<0.10)	NA	NA	NA
GPB-6 6ft	09/10/12	ND(<3.0)	ND(<0.030)	ND(<0.050)	ND(<0.050)	ND(<0.20)	ND(<0.10)	ND(<0.01)	ND(<0.005)	NA

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Table 2. Soil Sample TPH and BTEX Analytical Results - 6000 Portal Way, Ferndale

* - Cleanup level dependent on BTEX concentrations

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

NA - indicates that the sample was Not Analyzed for the specified analyte

BOLD - indicates that the concentration in the sample exceeds the MTCA Method A target cleanup levels

italics - indicated that the laboratory reporting limit was rasied above the MTCA Method A target cleanup level due to dilution of the sample

Sample ID	Date	NWTPH-Gx Gasoline Range µg/L	EPA-8021 Benzene µg/L	EPA-8021 Toluene μg/L	EPA-8021 Ethylbenzene µg/L	EPA-8021 Xylenes µg/L	ΕΡΑ-8021 ΜΤΒΕ μg/L	ΕΡΑ-8260 ΕDC μg/L	ΕΡΑ-8260 ΕDΒ μg/L
MTCA Method <i>I</i> Levels	A Clean-up	1,000/800*	5	1,000	700	1,000	20	5	0.01
GPB-1	09/10/12	ND(<50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<3.0)	ND(<3.0)	ND(<0.02)	ND(<0.01)
GPB-2	09/10/12	~ND(<50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<3.0)	ND(<3.0)	ND(<0.02)	ND(<0.01)
GPB-3	09/10/12	ND(<50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<3.0)	ND(<3.0)	ND(<0.02)	ND(<0.01)
GPB-4	09/10/12	7,000	4.8	13	14	49	ND(<3.0)	ND(<0.02)	ND(<0.01)
GPB-5	09/10/12	6,900	ND(<1.0)	3.3	4	5.3	ND(<3.0)	ND(<0.02)	ND(<0.01)
GPB-6	09/10/12	ND(<50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<3.0)	ND(<3.0)	ND(<0.02)	ND(<0.01)

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Table 3. Groundwater Sample TPH and BTEX Analytical Results - 6000 Portal Way, Ferndale

ND - indicates analyte was not detected at level above reporting limit (shown in parentheses) **BOLD** indicates the sample exceeds MTCA Method A cleanup levels

* - Cleanup level dependent on BTEX concentrations

APPENDIX A

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UST Site Check/Site Assessment Checklist

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UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

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FORO	FFICE USE ONLY
Site #:	- · · · ·
Owner #:	
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INSTRUCTIONS

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person certified by IFCI or a Washington registered professional engineer who is competent, by means of examination, experience, or education, to perform site assessments. The results of the site check or site assessment must be included with this checklist. This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

		Underground Storage Tank Section
	CHECKLIST: Please initial each item in the appropriate box.	Department of Ecology
		PO Box 47655
	SITE ASSESSOR INFORMATION: This information must be signed by the registered	Olympia WA 98504-7655
	site assessor who is responsible for conducting the site check/site assessment.	
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SITE INFORMATION

5	Site ID Number (Available from Ecolo	oov if the tanks	are registered)	8969			۰. ۱. ۱. ۱. ۱.	and for an and an	-
	Site/Business Name: KRIS'S MINI MAR	τ 	·			· · ·		 2 <u>.1</u>	-
	Site Address: 6000 PORTAL WAY	·		- · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	Telephone:	(360) 384	-6758	<
-	Femdale	Street	WA		s: v	* 4 ²		98248	
1	City		State			· · · ·	Zip	Code	;

Tank ID No. Tank Capacity Substance Stored Tank ID: 40536 8,000 Super Unleaded

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

	eck		

Investigate suspected release due to on-site environmental contamination.

____ Investigate suspected release due to off-site environmental contamination.

____ Extend temporary closure of UST system for more than 12 months.

UST system undergoing change-in-service.

UST system permanently closed with tank removed.

_____Abandoned tank containing product.

____ Required by Ecology or delegated agency for UST system closed before 12/22/88.

XXXXX Other (describe): Investigate suspected release related to hole observed in tank bottom near dipstick striker plate on North end of tank

ECY 010-158 (Rev. 6-99)

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CHECKLIST			:F		
Each item of the following checklist shall be Ecology whose signature appears below.	initialed by the person	registered with the C	Department of	YES	NO
1. The location of the UST site is shown on	a vicinity man			I.	
2. A brief summary of information obtained		n is provided.		_	
(see Section 3.2 in site assessment guida			· · · · ·	J.	
3. A summary of UST system data is provid	led. (see Section 3.1.)		······································	- Ment	
4. The soils characteristics at the UST site a	are described. (see Sec	tion 5.2)	1		
5. Is there any apparent groundwater in the	tank excavation?				
6. A brief description of the surrounding lan					
 Information has been provided indicating collect and analyze the samples, and the analyses. 	the number and types of a name and address of t	of samples collected the laboratory used t	, methods used to to perform the	I	
8. A sketch or sketches showing the followi	ng items is provided:		•	· .	
- location and ID number for all field sar	mples collected			T	
- groundwater samples distinguished fro	om soil samples (if appl	icable)			
- samples collected from stockpiled exc	avated soil			NA	
- tank and piping locations and limits of	excavation pit	······································		ヨ	
- adjacent structures and streets	· · · · · · · · · · · · · · · · · · ·	· · · ·			
- approximate locations of any on-site a	nd nearby utilities				
9. If sampling procedures different from the using these alternative sampling procedures	se specified in the guida ures been provided? (se	ance were used, has ee Section 3.4)	justification for	T	
10. A table is provided showing laboratory r constituents analyzed for and correspon that method.	esults for each sample	collected including; s	sample ID number, detection limit for	I	
11. Any factors that may have compromised	d the quality of the data	or validity of the res	ults are described.	T	
12. The results of this site check/site asses substance has occurred.	sment indicate that a co	ntimed release of a	regulated		
		· · · · · · · · · · · · · · · · · · ·		<u> </u>	
SITE ASSESSOR INFORMATION					
n ng gang na					
Thomas A. Davis	W		onmental Servic	es, In	C
Person registered with Ecology			filliated with .		. –
Business Address: 228 East Champi	on Street, Suite	101 Telephone: (3	<u>60) 752-9571</u>		<u> </u>
		-	· · · · · ·		
Bellingham City	WA State		98225 Zip Code		
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I hereby certify that I have been in responsible c submitting false information are subject to pena	charge of performing the s lties under Chapter 173.3	ite check/site assessme 60 WAC.	int described above. Pe	rsons	
	-				
		5			
9/11/2012 -1005	-4	WA U	ST Site Assessor #: 5	; <u>252393</u> -	.U7
9/11/2012	Signature of	WA U Person Registered with E	ST Site Assessor #: 1 Icology	252393-	-U7

Ecology is an equal opportunity employer

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APPENDIX B

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Soil Borelogs

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Project:Kris's Mini MartClient:Narain Naidu/Colony InsuranceBoring Number:GPB-1Location:West side of Tank PitDate Completed:9/10/2012

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Sheet: 1 of 1 Drilled by Cascade Drilling Logged by: Thomas Davis First Encountered Water: ~6.0 ft Total Depth: 15'

Depth/Description	Depth of Screening	PID (ppm)	Sheen	Sample
Asphalt Crush Rock Fill Sandy Pea Gravel Medium sand, brown, loose, moist to wet WATER SAMPLE COLLECTED WATER SAMPLE COLLECTED	See Note below	0.0 0.0 to depth of boring	NS NS to depth of boring	(a) 6 ft
WHATCOM ENVIRONMENTAL www.whatcomenvironmental.com		es inc	2.	

Project: Kris's Mini Mart Client: Narain Naidu/Colony Insurance Boring Number: **GPB-2** Location: North side of Tank Pit Date Completed: 9/10/2012

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Sheet: 1 of 1 Drilled by Cascade Drilling Logged by: Thomas Davis First Encountered Water: ~5.5 ft Total Depth: 15'

				-	
	Depth/Description	Depth of	PID	Sheen	Sample
		Screening	(ppm)		
		see			
0 - 2'	Sandy Gravel with minor cobbles	_			
	Sandy Gravel with minor cobbles Medium sand, brown, loose, moist to wet	see Note below	0.0 to depth of boring	NS to depth of boring	@ 6 ft
	····				
Note: PID used :	to field screen soil cores at intervals of approximately 0.5 ft				
	WHATCOM ENVIRONMENTAL		ES INC		

Project: Kris's Mini Mart Client: Narain Naidu/Colony Insurance Boring Number: **GPB-3** Location: East side of Tank Pit Date Completed: 9/10/2012

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Sheet: 1 of 1 Drilled by Cascade Drilling Logged by: Thomas Davis First Encountered Water: ~6.0 ft Total Depth: 15'

	Donth (Doccription	Depth of		Cheer	Cample
	Depth/Description	Depth of Screening	PID (ppm)	Sheen	Sample
		see		<u> </u>	<u>. </u>
<u>0 0.5'</u>	Asphalt	Note below			
0.5 - 2'	Rocky sandy gravel, brown		0.0	NS	
	Medium sand, brown, loose, moist to wet		0,0 to depth of boring	NS to depth of boring	(2) 6 ft.
Note: PID used	to field screen soil cores at intervals of approximately 0.5 ft				
	WHATCOM ENVIRONMENTAL	SERVIC	ES INC	·	<u>I,</u>
	www.whatcomenvironmental.com	n			

Project: Kris's Mini Mart Client: Narain Naidu/Colony Insurance Boring Number: **GPB-4** Location: SE corner of Tank Pit Date Completed: 9/10/2012

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Sheet: 1 of 1 Drilled by Cascade Drilling Logged by: Thomas Davis First Encountered Water: ~6.0 ft Total Depth: 15'

	Depth/Description	Depth of Screening	PID (ppm)	Sheen	Sample
0 - 0.5' 0.5 - 1'	Asphalt	see Note below	0.0	NS	
1 - 15'	Medium sand, brown, loose, moist to wet	(a), 1' began detectin	0.0 g odor at ~5' b	NS NS	
	·	@ 5'	50	NS	
		@ 6'	218	vss	@ 6.5 ft
		@,7'	40	NS	
		@, 8'	25	NS	
	WATER SAMPLE COLLECTED	@ 9'	10	NS	
	······	@ 10'	2.5	NS	
	I to field screen soil cores at intervals of approximately 0.5 ft	@,11'	0 to depth of boring	NS to depth of boring	
	WHATCOM ENVIRONMENTAL		ES INC	<u> </u>	<u> </u>
	www.whatcomenvironmental.co			~•	

Project: Kris's Mini Mart Client: Narain Naidu/Colony Insurance Boring Number: **GPB-5** Location: South side of Tank Pit Date Completed: 9/10/2012

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Sheet: 1 of 1 Drilled by Cascade Drilling Logged by: Thomas Davis First Encountered Water: ~6.0 ft Total Depth: 15'

	Depth/Description	Depth of Screening	PID (ppm)	Sheen	Sample
0 - 0.33' 0.33 - 1'	Asphalt Sandy Gravel	see Note below	0.0	NS	
<u>1 - 15'</u>	Medium sand, brown, loose, moist to wet	(d), 1' began detectin	0.0 g odor at ~5.5	bgs NS	
		@ 6'	428	MS	(à) 6 ft
		@ 7'	50	vss	
		@, 8'	12	NS	
	WATER SAMPLE COLLECTED	@, 9'	12	. NS	
		@ 10'	8	NS	
		@ 12'	5	NS	
	·	@ 15'	0.0	NS	@ 15 ft
		-			
	· · · · · · · · · · · · · · · · · · ·				
		_			
		-			
		-			
Note: PID used	to field screen soil cores at intervals of approximately 0.5 ft				<u> </u>
	WHATCOM ENVIRONMENTAL	SERVIC	ES INC	2.	
	www.whatcomenvironmental.com	1			

	Boring Log	S			
Location: SV	Kris's Mini Mart Narain Naidu/Colony Insurance ber: GPB-6 N corner of Tank Pit eted: 9/10/2012	Sheet: Drilled by Logged by First Enco Total Dept	r: Thomas untered W	Davis	0 ft
	Depth/Description	Depth of Screening	PID (ppm)	Sheen	Sample
0 - 0.33' 0.33 - 1' 1 - 15'	Asphalt Silty gravel Medium sand, brown, loose, moist to wet	Note below	0.0 0.0	NS NS	(@:6 ft
			to depth of boring	to depth of boring	
	WATER SAMPLE COLLECTED				
Note: PID used	to field screen soil cores at intervals of approximately 0.5 ft	-			
	WHATCOM ENVIRONMENTAI		es inc	2.	<u> </u>

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

APPENDIX C

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Original Soil Sample Laboratory Analytical Data

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September 19, 2012

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

Dear Mr. Davis,

On September 11th, 7 samples were received by our laboratory and assigned our laboratory project number EV12090040. The project was identified as your Kris' Mini Mart. 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

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626 ALS Laboratory Group A Campbell Brothers Limited Company

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CLIENT:	228 E. Champion §	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101		DATE ALS JOB#	9/2012 12090040			
CLIENT CONTACT:	Thom Davis	Bellingham, WA 98225 Thom Davis		ALS SAMPLE#		1/2012	• - · ·	• •
CLIENT PROJECT:	Kris' Mini Mart		CC	DLLECTION DATE	E: 9/10	0/2012 9:15:	00 AM	
CLIENT SAMPLE ID	GPB-1 6ft		WDOE	ACCREDITATION	I: C60	01		
		DATA	RESULTS		R . Jacob			
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A DATE	ANALYSIS BY	
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	09/11/2012	DLC	i
Methyl T-Butyl Ether	EPA-8021	υ	0.10	1	MG/KG	09/11/2012	DLC	ì
Benzene	EPA-8021	U	0.030	1	MG/KG	09/11/2012	DLC	÷
Toluene	EPA-8021	υ	0.050	1	MG/KG	09/11/2012	DLC	:
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	09/11/2012	DLC	;
Xylenes	EPA-8021	U	0.20	1	MG/KG	09/11/2012	DLC	ì
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/14/2012	GAP	;
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	09/14/2012	GAP	- :
SURROGATE	METHOD	%REC				ANALYSIS A DATE	ANALYSIS BY	
TFT	NWTPH-GX	92.0				09/11/2012	DLC	:
TFT	EPA-8021	82.6				09/11/2012	DLC	;
1,2-Dichloroethane-d4	EPA-8260	95.3		<u>_</u>		09/14/2012	GAP	;

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

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CLIENT:	Whatcom Environr 228 E. Champion S Bellingham, WA 98	St., Suite 101	DATE: 9/19/2012 ALS JOB#: EV12090040 ALS SAMPLE#: -02					
CLIENT CONTACT:	Thom Davis	•		DATE RECEIVI		1/2012		
CLIENT PROJECT:	Kris' Mini Mart			LLECTION DA		D/2012 9:50:	00 AM	
CLIENT SAMPLE ID	GPB-2 6ft			ACCREDITATIO				
er vint <u>si </u>			RESULTS		ೆಗ್ ಹ್ಯಾಮಕ್ರಾರ್ ಇಲ್ಲಿ ಸ್ವಿಕ್ಷ ಕ್ರಮಕ್ರಿ ಇಲ್ಲಿ ಕ್ರಿ			
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A DATE	ANALYSIS BY	
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	09/11/2012	DLC	;
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	09/11/2012	DLC	:
Benzene	EPA-8021	U	0.030	1	MG/KG	09/11/2012	DLC	;
Toluene	EPA-8021	U	0.050	1	MG/KG	09/11/2012	DLC	į
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	09/11/2012	DLC	i.
Xylenes	EPA-8021	U	0.20	1	MG/KG	09/11/2012	DLC	:
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/14/2012	GAP	;
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	09/14/2012	GAP	- ;
SURROGATE	METHOD	%REC				ANALYSIS A DATE	NALYSIS BY	
TFT	NWTPH-GX	96.9				09/11/2012	DLC	:
TFT	EPA-8021	89.3				09/11/2012	DLC	;
1,2-Dichloroethane-d4	EPA-8260	97.6				09/14/2012	GAP	;

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		CERTIFICA	E OF ANALYS	S	a se ora			¢
CLIENT:	Whatcom Environn 228 E. Champion S Bellingham, WA 98	St., Suite 101		DA ⁻ ALS JOI ALS SAMPLI	B#: EV1	9/2012 12090040		
CLIENT CONTACT:	Thom Davis			DATE RECEIVE	ED: 9/11	1/2012	· · -	
CLIENT PROJECT:	Kris' Mini Mart		CC	DLLECTION DAT	TE: 9/10)/2012 10:4	40:00 AM	
CLIENT SAMPLE ID	GPB-3 6ft		WDOE	ACCREDITATIO	DN: C60	01		
	° (143 a ^{rt} ng th ² at <mark>112</mark> at 2 a s ¹ a	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	09/11/2012	DLC	1
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	09/11/2012	DLC	i
Benzene	EPA-8021	U	0.030	1	MG/KG	09/11/2012	DLC	;
Toluene	EPA-8021	U	0.050	1	MG/KG	09/11/2012	DLC	1
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	09/11/2012	DLC	i.
Xylenes	EPA-8021	U	0.20	1	MG/KG	09/11/2012	DLC	i
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/14/2012	GAP	i
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	09/14/2012	GAP	- "
SURROGATE	METHOD	%REC				ANALYSIS DATE	ANALYSIS BY	
TFT	NWTPH-GX	90.0				09/11/2012	DLC	;
TFT	EPA-8021	85.6				09/1 1/20 12	DLC	:
1,2-Dichloroethane-d4	EPA-8260	101				09/14/2012	GAP	:

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

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CERTIFICATE OF ANALYSIS 建国际 网络松子沙漠石

CLIENT:	Whatcom Environm 228 E. Champion S	St., Suite 101	DATE: 9/19/2012 ALS JOB#: EV12090040					
	Bellingham, WA 98	3225		ALS SAMPLE#: -04				
CLIENT CONTACT:	Thom Davis			DATE RECEIVE		1/2012		
CLIENT PROJECT:	Kris' Mini Mart		CC	DLLECTION DA	TE: 9/10	0/2012 11:30	0:00 AM	
CLIENT SAMPLE ID	GPB-4 6.5ft		WDOE	ACCREDITATIO	DN: C60	01		
			RESULTS		Jaime 1		ware to see	
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS BY	
TPH-Volatile Range	NWTPH-GX	5.2	3.0	1	MG/KG	09/12/2012	DLC	t,
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	09/12/2012	DLC	$\frac{1}{2}$
Benzene	EPA-8021	U	0.030	1	MG/KG	09/12/2012	DLC	;
Toluene	EPA-8021	U	0.050	1	MG/KG	09/12/2012	DLC	:
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	09/12/2012	DLC	÷.
Xylenes	EPA-8021	U	0.20	1	MG/KG	09/12/2012	DLC	1
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/14/2012	GAP	÷.
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	09/14/2012	GAP	\$
Lead	EPA-6020	2.1	0.50	5	MG/KG	09/17/2012	RAL _	- ;
SURROGATE	METHOD	%REC				ANALYSIS A DATE	ANALYSIS BY	
TFT	NWTPH-GX	90.9				09/12/2012	DLC	;
TFT	EPA-8021	94.4				09/12/2012	DLC	· ;
1,2-Dichloroethane-d4	EPA-8260	107				09/14/2012	GAP	4

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

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CERTIFICATE OF ANALYSIS 190 d.

CLIENT: CLIENT CONTACT: CLIENT PROJECT:	Whatcom Environr 228 E. Champion S Bellingham, WA 98 Thom Davis Kris' Mini Mart	St., Suite 101	DATE: 9/19/2012 ALS JOB#: EV12090040 ALS SAMPLE#: -05 DATE RECEIVED: 9/11/2012 COLLECTION DATE: 9/10/2012 12:30:00 PM					
CLIENT SAMPLE ID	GPB-5 6ft			ACCREDITATI			0.001 /	
		國語語問題問題國際語言完全的小學品 <u>的小學</u> 及了一個成				Transaction in the		
		DATA	RESULTS					
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS / DATE	ANALYSIS By	
TPH-Volatile Range	NWTPH-GX	460	30	10	MG/KG	09/12/2012	DLC	;
Methyl T-Butyl Ether	EPA-8021	υ	1.0	10	MG/KG	09/12/2012	DLC	:
Benzene	EPA-8021	U	0.30	10	MG/KG	09/12/2012	DLC	ł
Toluene	EPA-8021	U	0.50	10	MG/KG	09/12/ 2012	DLC	7." 1
Ethylbenzene	EPA-8021	U	0.50	10	MG/KG	09/12/2012	DLC	1
Xylenes	EPA-8021	U	2.0	10	MG/KG	09/12/2012	DLC	i
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/14/2012	GAP	i
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	09/14/2012	GAP	
Lead	EPA-6020	2.2	0.50	5	MG/KG	09/17/2012	RAL	-
SURROGATE	METHOD	%REC				ANALYSIS / DATE	ANALYSIS BY	
TFT 10X Dilution	NWTPH-GX	22.8 GS2				09/12/2012	DLC	}
TFT 10X Dilution	EPA-8021	25.6 GS2				09/12/2012	DLC	1 1
1,2-Dichloroethane-d4	EPA-8260	110				09/14/2012	GAP	

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U - Analyte analyzed for but not detected at level above reporting limit. GS2 - Surrogate outside of control limits due to dilution. Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

Page 6

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CLIENT:	Whatcom Environr 228 E. Champion S Bellingham, WA 98	St., Suite 101		DA ⁻ ALS JOI	B#: EV	9/2012 12090040		
	2	0220		ALS SAMPLE#: -00				
CLIENT CONTACT:	Thom Davis			DATE RECEIVE		1/2012		
CLIENT PROJECT:	Kris' Mini Mart			DLLECTION DAT		0/2012 12:40	D:00 PM	
CLIENT SAMPLE ID	GPB-5 15ft		WDOE	ACCREDITATIO	DN: C60	01		
			RESULTS					
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS / DATE	ANALYSIS BY	
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	09/12/2012	DLC	;
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	09/12/2012	DLC	;
Benzene	EPA-8021	υ	0.030	1	MG/KG	09/12/2012	DLC	;
Toluene	EPA-8021	U	0.050	1	MG/KG	09/12/2012	DLC	;
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	09/12/2012	DLC	;
Xylenes	EPA-8021	U	0.20	1	MG/KG	09/12/2012	DLC	:
						ANALYSIS A	NALYSIS	
SURROGATE	METHOD	%REC				DATE	BY	
TFT	NWTPH-GX	93.7				09/12/2012	DLC	;
TFT	EPA-8021	85.5				09/12/2012	DLC	:

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

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CLIENT:	Whatcom Environn 228 E. Champion S Bellingham, WA 98	St., Suite 101		DAT ALS JOB ALS SAMPLE	#: EV	9/2012 12090040		
CLIENT CONTACT:	Thom Davis			DATE RECEIVE		1/2012		
CLIENT PROJECT:	Kris' Mini Mart		CC	DLLECTION DAT	E: 9/10	0/2012 1:30	:00 PM	
CLIENT SAMPLE ID	GPB-6 6ft		WDOE	ACCREDITATIO	N: C60)1		
		DATA	RESULTS			THE MARS		
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS /	ANALYSIS BY	
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	09/12/2012	DLC	;
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	09/12/2012	DLC	;
Benzene	EPA-8021	U	0.030	1	MG/KG	09/12/2012	DLC	:
Toluene	EPA-8021	U	0.050	1	MG/KĢ	09/12/2012	DLC	
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	09/12/2012	DLC	;
Xylenes	EPA-8021	U	0.20	1	MG/KG	09/12/2012	DLC	1
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/14/2012	GAP	21
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	09/14/2012	GAP	_ :
SURROGATE	METHOD	%REC				ANALYSIS / DATE	ANALYSIS BY	
TFT	NWTPH-GX	95.4				09/12/2012	DLC	;
TFT	EPA-8021	90.2				09/12/2012	DLC	:
1,2-Dichloroethane-d4	EPA-8260	95.1				09/14/2012	GAP	:

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

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CLIENT:	Whatcom Environmental Svcs., Inc.	DATE:	9/19/2012
	228 E. Champion St., Suite 101	ALS SDG#:	EV12090040
	Bellingham, WA 98225	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Thom Davis		
CLIENT PROJECT:	Kris' Mini Mart		

LABORATORY BLANK RESULTS

MBG-090712S2 - Batch 3056 - Soil by NWTPH-GX

			REPORTING	DILUTION		ANALYSIS A	ANALYSIS	
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY	•
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	09/08/2012	DLC	- :
MB-090712S2 - Batch 3	3056 - Soil by EPA-8	021						

			REPORTING	DILUTION		ANALYSIS /	ANALYSIS	
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY	-
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	09/08/2012	DLC	:
Benzene	EPA-8021	U	0.030	1	MG/KG	09/08/2012	DLC	1
Toluene	EPA-8021	U	0.050	1	MG/KG	09/08/2012	DLC	;;
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	09/08/2012	DLC	3
Xylenes	EPA-8021	U	0.20	1	MG/KG	09/08/2012	DLC	-:

MB-091412S - Batch 3081 - Soil by EPA-8260

			REPORTING	DILUTION		ANALYSIS A	NALYSIS	
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY	
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/14/2012	GAP	:
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/14/2012	GAP	:
Toluene	EPA-8260	U	10	1	UG/KG	09/14/2012	GAP	:
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	09/14/2012	GAP	3

MB-091412S - Batch 3072 - Soil by EPA-6020

			REPORTING	DILUTION		ANALYSIS A	NALYSIS	
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY	
Lead	EPA-6020	U	0.10	1	MG/KG	09/14/2012	RAL	:

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CLIENT:	Whatcom Environme	ntal Svcs.,	Inc.	DATE:	9/19/2012	
	228 E. Champion St.,			ALS SDG#:	EV12090040	
	Bellingham, WA 9822	5		WDOE ACCREDITATION:	C601	
CLIENT CONTACT:	Thom Davis					
CLIENT PROJECT:	Kris' Mini Mart					
		DRATORY	CONTR	ROL SAMPLE RESULTS		
ALS Test Batch ID: 30	056 - Soil by NWTPH-0	GX				
SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	78.2			09/10/2012	DLC
TPH-Volatile Range - BSD	NWTPH-GX	78.3	0		09/10/2012	DLC
ALS Test Batch ID: 30	156 - Soil by EPA-8021	I				
	-				ANALYSIS	ANALYSIS
SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	DATE	BY
Methyl T-Butyl Ether - BS	EPA-8021	93.9			09/08/2012 09/08/2012	DLC
Methyl T-Butyl Ether - BSD	EPA-8021	93.2	1			DLC
Benzene - BS	EPA-8021	96.2			09/08/2012	DLC
Benzene - BSD	EPA-8021	97.8	2		09/08/2012	DLC DLC
Toluene - BS	EPA-8021	99.1			09/08/2012	
Toluene - BSD	EPA-8021	101	2		09/08/2012	DLC DLC
•						DLC
-			1			DLC
•			2			DLC
Ethylbenzene - BS Ethylbenzene - BSD Xylenes - BS Xylenes - BSD ALS Test Batch ID: 30	EPA-8021 EPA-8021 EPA-8021 EPA-8021 EPA-8021	98.8 100 99.5 102	1 2		09/08/2012 09/08/2012 09/08/2012 09/08/2012	[[
	501 - 3011 DY EFA-0200				ANALYSIS	ANALYSIS
SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	DATE	BY
1,1-Dichloroethene - BS	EPA-8260	126			09/14/2012	GAP
1,1-Dichloroethene - BSD	EPA-8260	130	3		09/14/2012	GAP
Toluene - BS	EPA-8260	118			09/14/2012	GAP
Toluene - BSD	EPA-8260	116	_ 1		09/14/2012	GAP
ALS Test Batch ID: 30	J/2 - Soli by EPA-6020)				

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	DATE	BY
Lead - BS	EPA-6020	102			09/14/2012	RAL
Lead - BSD	EPA-6020	102	_ 0		 09/14/2012	RAL

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Laboratory Director

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-	ALS Environmental 8620 Holly Drive, Everett, WA 9820 Phone (425) 356 (425) 356	, Suite 100)8	J		Lab			ain ory					-		est	•				10/1	G				oratory U 040		}
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ł		Enviror	·	al Sv	 cs .							-									- <u>-</u>			Ť I			
ľ	PROJECT MANAGER: Thom			<u> </u>												SIM			-	<u> </u>							1
ſ	ADDRESS: 228 E.C	hampro	n -H	-101		1									8270	4-8270	982	TAL	(PP)]Herb;							~
	15 have, wh		18225	-								A 826			by EP ⁴) by EP	081/8(Pol 🗆	9	Pest		1					NOL
	PHONE: 752-9571	FAX:				4	ļ			8260 (A 826(byEF	(ater)	ĺ	punds	HAH) st	by EPA 8081/8082	D Pri	A S	-Vol						ERS	IQNO
	PO. NUMBER: INVOICE TO COMPANY:	E-MAIL			-	4				EPA-	by EP	spunod	SIM (v	(soil)	Compo	ocarbor	₽ □	SRA-8	Ĵ	Semi						TAIN	Ö GÖ
ł	INVOICE TO COMPANY: Colomy ATTENTION:		J Lyk	seer		1			3021	MTBE by EPA-8021 🕱 EPA-8260 🗆	Hatogenated 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	cides	Metats-MICA-5 🗆 RCRA-8 🗆 Pri Pol 🗆 TAL 🗆	Metals Other (Specify) Lead	TCLP-Metals □ VOA □ Semi-Vol □ Pest □ Herbs □						NUMBER OF CONTAINERS	Received in Good Condition?
ļ	ADDRESS:		*7		6) -	불	Ă	ĕ	EPA-8	y EPA-	ated V	Organi	C by EP	C by EP	atile Or	Anoma	Pesticides	ATCA-!)ther (S	etals 🗆	Í					Ю Ш	Ē
	SAMPLE I.D.	DATE		TYPE	LAB#	NWTPH-HCID	X0-H4TWN	NWTPH-GX	BTEX by EPA-8021	TBEb	alogen	olatile (08/ED	08 / ED	emivol	lycycli	L B2	etals-h	etals (CLP-M(IUMB	
ι.	1 GPB-1 Gft	9/10/12	· ·	Soil			Z	z V	™ X	≥ Y	╧		<u> </u>	× ×	<u>s</u>	-	-	M	<u>×</u>	F				┿╾┤		4	_ <u>œ</u> _
_ABORATORY COPY	GPB-2 GFt	10110	950	501	2	+	••••	X Y	× ×	X				X					-					┼──╁	-	4	
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	5 GPB-5 Gft	┼{	1230	+/-	5			X	ト	メ				X		-			Х							4	
	6. GPB-5 15ft		1240		6	<u> </u>			X	<u> </u>				•		-		:						+		2	
	7. GPB-6 6fr	<u>۲</u>	1330		//_		-	X	X	X				X								╧╪═				4	
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	10.												_											+			L
	SPECIAL INSTRUCTIONS							:															_				

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SIGNATURES (Name, Company, Date, Time):		REQUESTED in Business Days*
1. Relinquished By	10) 5 3 2 1 Swe	OTHER: Specify:
Received By:	Fuels tydrocarbon Analysis	
2. Relinquished By:		
Received By Mallin Kolunson ALS 111/2 10:10		* Turnaround request less than standard may incur Rush Charges

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APPENDIX D

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Original Groundwater Sample Laboratory Analytical Data



September 14, 2012

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

Dear Mr. Davis,

On September 11th, 6 samples were received by our laboratory and assigned our laboratory project number EV12090041. The project was identified as your Kris' Mini Mart. 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

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CLIENT: CLIENT CONTACT: CLIENT PROJECT: CLIENT SAMPLE ID	Whatcom Environm 228 E. Champion S Bellingham, WA 98 Thom Davis Kris' Mini Mart GPB-1	t., Suite 101	CC	DATE ALS JOB ALS SAMPLE DATE RECEIVEI DLLECTION DATE ACCREDITATION	#: EV #: -01 D: 9/1 E: 9/1	1/2012 0/2012 10:1	5:00 AM	
		DATA	RESULTS					
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS / DATE	ANALYSIS By	
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	09/12/2012	DLC	:
Methyl T-Butyl Ether	EPA-8021	U	3.0	1	UG/L	09/12/2012	DLC	;
Benzene	EPA-8021	U	1.0	1	UG/L	09/12/2012	DLC	;
Toluene	EPA-8021	U	1.0	1	UG/L	09/12/2012	DLC	;
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	09/12/2012	DLC	;
Xylenes	EPA-8021	U	3.0	1	UG/L	09/12/2012	DLC	
1,2-Dichloroethane	EPA-8260 SIM	U	0.020	1	UG/L	09/11/2012	GAP	•
1,2-Dibromoethane	EPA-8260 SIM	U	0.010	11	UG/L	09/11/2012	GAP	- ÷
SURROGATE	METHOD	%REC				ANALYSIS / DATE	ANALYSIS BY	
TFT	NWTPH-GX	93.5				09/12/2012	DLC	;
TFT	EPA-8021	101				09/12/2012	DLC	;
1,2-Dichloroethane-d4	EPA-8260 SIM	108				09/11/2012	GAP	-

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

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CLIENT: -	Whatcom Environm 228 E. Champion S Bellingham, WA 98	st., Suite 101		DATE ALS JOB# ALS SAMPLE#	#: EV #: -02			
CLIENT CONTACT:	Thom Davis			DATE RECEIVED		1/2012		
CLIENT PROJECT:	Kris' Mini Mart			DLLECTION DATE		0/2012 10:3	0:00 AM	
CLIENT SAMPLE ID	GPB-2		WDOE	ACCREDITATION	1: C60	01		
		IDATTA	RESULTS		S. A. Sur			s 1
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS / DATE	ANALYSIS BY	
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	09/12/2012	DLC	:
Methyl T-Butyl Ether	EPA-8021	U	3.0	1	UG/L	09/12/2012	DLC	i
Benzene	EPA-8021	U	1.0	1	UG/L	09/12/2012	DLC	;
Toluene	EPA-8021	U	1.0	1	UG/L	09/12/2012	DLC	:
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	09/12/2012	DLC	÷
Xylenes	EPA-8021	υ	3.0	1	UG/L	09/12/2012	DLC	;
1,2-Dichloroethane	EPA-8260 SIM	U	0.020	1	UG/L	09/11/2012	GAP	;
1,2-Dibromoethane	EPA-8260 SIM	<u> </u>	0.010	1	UG/L	09/11/2012	GAP	;
SURROGATE	METHOD	%REC				ANALYSIS A DATE	ANALYSIS BY	
TFT	NWTPH-GX	107				09/12/2012	DLC	:
TFT	EPA-8021	115				09/12/2012	DLC	;
1,2-Dichloroethane-d4	EPA-8260 SIM	110				09/11/2012	GAP	_ :

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		CERTIFICA	FEIOFANALYSI	S Market And				
CLIENT:	Whatcom Environm 228 E. Champion S Bellingham, WA 98	t., Suite 101		DATE ALS JOB ALS SAMPLE	#: EV	4/2012 12090041		
CLIENT CONTACT: CLIENT PROJECT: CLIENT SAMPLE ID	Thom Davis Kris' Mini Mart GPB-3		CC	DATE RECEIVED DLLECTION DATE ACCREDITATION	E: 9/1	1/2012 0/2012 11:0(01	0:00 AM	
		DATA	RESULTS					a ji b
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A DATE	ANALYSIS BY	
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	09/12/2012	DLC	:
Methyl T-Butyl Ether	EPA-8021	U	3.0	1	UG/L	09/12/2012	DLC	:
Benzene	EPA-8021	U	1.0	1	UG/L	09/12/2012	DLC	:
Toluene	EPA-8021	U	1.0	1	UG/L	09/12/2012	DLC	:
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	09/12/2012	DLC	;
Xylenes	EPA-8021	U	3.0	1	UG/L	09/12/2012	DLC	;
1,2-Dichloroethane	EPA-8260 SIM	U	0.020	1	UG/L	09/11/2012	GAP	;
1,2-Dibromoethane	EPA-8260 SIM	<u> </u>	0.010	1	UG/L	09/11/2012	GAP	- :
SURROGATE	METHOD	%REC				ANALYSIS A DATE	ANALYSIS BY	
TFT	NWTPH-GX	93.0				09/12/2012	DLC	:
TFT	EPA-8021	101				09/12/2012	DLC	:
1,2-Dichloroethane-d4	EPA-8260 SIM	112				09/11/2012	GAP	- '

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CLIENT:	Whatcom Environn 228 E. Champion S Bellingham, WA 98	st., Suite 101		DATE ALS JOB# ALS SAMPLE#	#: EV	4/2012 12090041		
CLIENT CONTACT:	Thom Davis			DATE RECEIVED): 9/1	1/2012		
CLIENT PROJECT:	Kris' Mini Mart		CC	DLLECTION DATE	E: 9/1	0/2012 11:4	5:00 AM	
CLIENT SAMPLE ID	GPB-4		WDOE	ACCREDITATION	1: C66	01		
		DATA	RESULTIS					
ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A DATE	ANALYSIS BY	
TPH-Volatile Range	NWTPH-GX	7000	250	5	UG/L	09/13/2012	DLC	:
Methyl T-Butyl Ether	EPA-8021	υ	3.0	1	UG/L	09/12/2012	DLC	:
Benzene	EPA-8021	4.8	1.0	1	UG/L	09/12/2012	DLC	;
Toluene	EPA-8021	13	1.0	1	UG/L	09/12/2012	DLC	;
Ethylbenzene	EPA-8021	14	1.0	1	UG/L	09/12/2012	DLC	;
Xylenes	EPA-8021	49	3.0	1	UG/L	09/12/2012	DLC	:
1,2-Dichloroethane	EPA-8260 SIM	U	0.020	1	UG/L	09/11/2012	GAP	;
1,2-Dibromoethane	EPA-8260 SIM	U	0.010	1	UG/L	09/11/2012	GAP	;
SURROGATE	METHOD	%REC				ANALYSIS A DATE	ANALYSIS BY	
TFT 5X Dilution	NWTPH-GX	127				09/13/2012	DLC	;
TFT	EPA-8021	157 GS2				09/12/2012	DLC	;
1,2-Dichloroethane-d4	EPA-8260 SIM	82.4				09/11/2012	GAP	i

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

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

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CLIENT:	Whatcom Environm 228 E. Champion S Bellingham, WA 98	it., Suite 101		DAT ALS JOB ALS SAMPLE	#: EV	4/2012 12090041		
CLIENT CONTACT:	Thom Davis	220		DATE RECEIVE	-			
CLIENT PROJECT:	Kris' Mini Mart			DATE RECEIVE		1/2012 0/2012 12:5!		
							5.00 PIVI	
CLIENT SAMPLE ID	GPB-5		WDOE.	ACCREDITATIO	N: C60	J1		
		DATA	RESULTS		GARAK			
ANALYTE	METHOD	RESULTS	REPORTING	DILUTION FACTOR	UNITS	ANALYSIS A DATE	ANALYSIS BY	
TPH-Volatile Range	NWTPH-GX	6900	250	5	UG/L	09/13/2012	DLC	;
Methyl T-Butyl Ether	EPA-8021	U	3.0	1	UG/L	09/12/2012	DLC	;
Benzene	EPA-8021	U	1.0	1	UG/L	09/12/2012	DLC	:
Toluene	EPA-8021	3.3	1.0	1	UG/L	09/12/2012	DLC	;
Ethylbenzene	EPA-8021	4.0	1.0	1	UG/L	09/12/2012	DLC	i
Xylenes	EPA-8021	5.3	3.0	1	UG/L	09/12/2012	DLC	:
1,2-Dichloroethane	EPA-8260 SIM	U	0.020	1	UG/L	09/11/2012	GAP	;
1,2-Dibromoethane	EPA-8260 SIM	<u> </u>	0.010	1	UG/L	09/11/2012	GAP	- :
SURROGATE	METHOD	%REC				ANALYSIS A DATE	ANALYSIS BY	
TFT 5X Dilution	NWTPH-GX	153				09/13/2012	DLC	:
TFT	EPA-8021	177 GS2				09/12/2012	DLC	:
1,2-Dichloroethane-d4	EPA-8260 SIM	86.2				09/11/2012	GAP	:

U - Analyte analyzed for but not detected at level above reporting limit. GS2 - Surrogate outside of control limits due to dilution. Chromatogram indicates that it is likely that sample contains weathered gasoline.

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CLIENT: Whatcom Environmental Svcs., Inc. DATE: 9/14/2012 228 E. Champion St., Suite 101 ALS JOB#: EV12090041 Bellingham, WA 98225 ALS SAMPLE#: -06 CLIENT CONTACT: Thom Davis 9/11/2012 DATE RECEIVED: Kris' Mini Mart CLIENT PROJECT: 9/10/2012 1:50:00 PM COLLECTION DATE: CLIENT SAMPLE ID GPB-6 WDOE ACCREDITATION: C601 DATARESULTIS REPORTING DILUTION ANALYSIS ANALYSIS LIMITS FACTOR DATE BY RESULTS UNITS ANALYTE METHOD UG/L 09/12/2012 DLC **TPH-Volatile Range** NWTPH-GX U 50 1 DLC UG/L 09/12/2012 Methyl T-Butyl Ether U 3.0 EPA-8021 1 Benzene EPA-8021 U 1.0 UG/L 09/12/2012 DLC 1 DLC EPA-8021 U UG/L 09/12/2012 Toluene 1.0 1 DLC U UG/L 09/12/2012 Ethylbenzene EPA-8021 1.0 1 U 3.0 UG/L 09/12/2012 DLC **Xylenes** EPA-8021 1 0.020 UG/L 09/11/2012 GAP 1,2-Dichloroethane EPA-8260 SIM U 1 1,2-Dibromoethane EPA-8260 SIM U 0.010 1 UG/L 09/11/2012 GAP ANALYSIS ANALYSIS DATE BY SURROGATE METHOD %REC DLC TFT NWTPH-GX 97.2 09/12/2012 DLC EPA-8021 102 09/12/2012 TFT GAP 09/11/2012 EPA-8260 SIM 1,2-Dichloroethane-d4 91.1

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CLIENT:	Whatcom Environmental Svcs., Inc.	DATE:	9/14/2012
	228 E. Champion St., Suite 101	ALS SDG#:	EV12090041
	Bellingham, WA 98225	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Thom Davis		
CLIENT PROJECT:	Kris' Mini Mart		

LABORATORY BLANK RESULTS

MBG-091112W - Batch 3068 - Water by NWTPH-GX

			REPORTING	DILUTION		ANALYSIS A	NALYSIS	
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY	
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	09/11/2012	DLC	
								-

MB-091112W - Batch 3068 - Water by EPA-8021

			REPORTING	DILUTION		ANALYSIS A	NALYSIS
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY
Methyl T-Butyl Ether	EPA-8021	U	3.0	1	UG/L	09/11/2012	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	09/11/2012	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	09/11/2012	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	09/11/2012	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	09/11/2012	DLC

MB-091112W - Batch 3058 - Water by EPA-8260 SIM

			REPORTING	DILUTION		ANALYSIS ANAL				
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY			
1,1-Dichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	09/11/2012	GAP			
1,2-Dichloroethane	EPA-8260 SIM	U	0.10	1	UG/L	09/11/2012	GAP			
1,2-Dibromoethane	EPA-8260 SIM	U	0.010	1	UG/L	09/11/2012	GAP			

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CLIENT:	Whatcom Environmental Svcs., Inc.	DATE:	9/14/2012
	228 E. Champion St., Suite 101	ALS SDG#:	EV12090041
	Bellingham, WA 98225	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Thom Davis		
CLIENT PROJECT:	Kris' Mini Mart		

LABORATORY CONTROLISAMPLE RESULTS

ALS Test Batch ID: 3068 - Water by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY	
TPH-Volatile Range - BS	NWTPH-GX	66.2			09/12/2012	DLC	I
TPH-Volatile Range - BSD	NWTPH-GX	68.0	3		09/12/2012	DLC	

ALS Test Batch ID: 3068 - Water by EPA-8021

	-						
SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY	
Methyl T-Butyl Ether - BS	EPA-8021	99.9			09/12/2012	DLC	1
Methyl T-Butyl Ether - BSD	EPA-8021	106	6		09/12/2012	DLC	I
Benzene - BS	EPA-8021	99.6			09/12/2012	DLC	1
Benzene - BSD	EPA-8021	105	5		09/12/2012	DLC	•
Toluene - BS	EPA-8021	96.9			09/12/2012	DLC	
Toluene - BSD	EPA-8021	103	6		09/12/2012	DLC	÷
Ethylbenzene - BS	EPA-8021	95.3			09/12/2012	DLC	
Ethylbenzene - BSD	EPA-8021	101	6		09/12/2012	DLC	1
Xylenes - BS	EPA-8021	96.7			09/12/2012	DLC	
Xylenes - BSD	EPA-8021	103	6		09/12/2012	DLC	1

ALS Test Batch ID: 3058 - Water by EPA-8260 SIM

					ANALYSIS	ANALYSIS	
SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	DATE	BY	
1,1-Dichloroethene - BS	EPA-8260 SIM	93.2			09/11/2012	GAP	1
1,1-Dichloroethene - BSD	EPA-8260 SIM	89.4	4		09/11/2012	GAP	

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Chain Of Custody/ Laboratory Analysis Request

(Laboratory Use Only) ALS Job# 111

(ALS) http://www.alsglobal.com													Date	.1	ωĮ	12	Pag	e	\bot	(Of		
PROJECTID: Kris' Mini Mart-	AN	ALY	SIS	REC	UE	STE	D									ΟΤΙ	IER	(Spe	ecify)	,			
COMPANY: Whatcom Env. Sues																							l
MANAGER: Thom - Harold				[_													l
ADDRESS: 228 E. Champion #61										8270	-8270	82	N		IHerb								Ι_
ADDRESS: 228 E. Champion #61 B'ram, wA- 98225							\ 826I			, ΕΡΑ	by EPA	81/80			lest								NO
PHONE: FAX: 752-9573						8260	y EP	er)		d spu	(FAH)	by EPA 8081/8082] Pri P							1		RS	NDIT
P.O. NUMBER: E-MAIL: Clavis Ewhates]				MTBE by EPA-8021 [5] EPA-8260	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	(lio	Semivolatile Organic Compounds by EPA 8270	Polycyclic Atomatic Hydrocarbons (PAH) by EPA-8270 SIM	by E	Metais-MTCA-5 CI RCRA-8 CI Pri Pol CI TAL		TCLP-Metals 🗌 VOA 🗍 Semi-Voi 🗆 Pest 🗆 Herbs 🗆							NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
COMPANY: COLONY INSURANCE						les by	10dE	18 09	560 (st	ii C	ydroca	□ s	RCR/	ţ,	ADS					1		INO 1	DO I
ATTENTION: 9% Carol Lybear	-			802	4-802	Volati	얻	EPA 82	EPA 82	Organ	natic H	ticide	-50	Spec								0 5	N
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