

October 28, 2020

Mr. Sang (Sam) Moon
140 South 3rd Street
McCleary, Washington 98557-9652

RE: ***October 2020 Groundwater Sampling Results Report***
Sam's Food Mart
140 South 3rd Street
McCleary, Washington 98557-9652
Ecology Facility/Site ID: 22576988
Cleanup Site ID: 5705
VCP Project No. SW0922

Dear Mr. Moon,

Associated Environmental Group, LLC (AEG) has prepared the enclosed ***Groundwater Sampling Results Report*** presenting results of groundwater sampling conducted on October 6, 2020, at the above-referenced Site in McCleary, Washington (Figure 1, *Vicinity Map*). Long-term groundwater monitoring is currently being conducted at the Site on an 18-month frequency as required by the No Further Action (NFA) determination, dated January 12, 2016, issued by the Washington State Department of Ecology (Ecology). Figure 2, *10/06/2020 Groundwater Contour Map*, shows the locations of Site features, monitoring wells, and the direction of the groundwater gradient determined at the time of sampling.

WORK PERFORMED [October 2020]:

- Obtained depth to groundwater data in six groundwater wells (MW-1, MW-2R, MW-3, MW-5, MW-6, and MW-7).
- Purged and sampled six groundwater monitoring wells (MW-1, MW-2R, MW-3, MW-5, MW-6, and MW-7).

WORK PROPOSED [April 2022]:

- Obtain depth to groundwater data in six groundwater wells (MW-1, MW-2R, MW-3, MW-5, MW-6, and MW-7).
- Purge and sample six groundwater monitoring wells (MW-1, MW-2R, MW-3, MW-5, MW-6, and MW-7).

October 2020 Groundwater Sampling Results Report

Sam's Food Mart, McCleary, Washington

AEG Project No. 07-230

October 28, 2020

SUMMARY:

Sampling Event:	October 2020	Values
Range of Depths to Groundwater:	4.04 to 7.18	Feet below top of well casing (Table 1, <i>Summary of Groundwater Elevations</i>)
Range of Groundwater Elevations:	252.74 to 256.67	Feet above Mean Sea Level (Table 1, <i>Summary of Groundwater Elevations</i>)
Groundwater Gradient: (Direction / Magnitude)	Northeast to northwest / 0.04	Feet per foot (ft/ft)
Measureable NAPL Detected:	No	
Measureable NAPL Thickness:	N/A	
Current Remedial Action:	None	

DISCUSSION:

Constituents of concern were detected in monitoring well MW-6 during the October 2020 sampling event. Detected concentrations are summarized below. Analytical results for this sampling event, and historical analytical results, are presented in the attached Table 2, *Summary of Groundwater Analytical Results*. Full laboratory analytical results for this sampling are presented in the attached Appendix A, Laboratory Datasheets.

October 06, 2020				
Well ID	Gasoline TPH (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Total Xylenes (µg/L)
MW-6	550	21	<2.0	3.2
MTCA Method A Cleanup Levels	800	5.0	1,000	1,000

µg/L = micrograms per liter

MW-6: Benzene was detected **above** the MTCA Method A cleanup level. Gasoline-range TPH and Total Xylenes were detected **below** their respective MTCA Method A cleanup levels.

October 2020 Groundwater Sampling Results Report

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AEG Project No. 07-230

October 28, 2020

The calculated groundwater gradient for the October 2020 sampling event ranges from the northwest to northeast, with an approximate gradient of 0.04 feet per foot (Figure 2, *10/06/2020 Groundwater Contour Map*).

CLOSING:

AEG has completed this monitoring event at the Site. Thank you for the opportunity to provide you with environmental consulting services. Should you have questions or require additional information, please contact our office at 360-352-9835.

Sincerely,

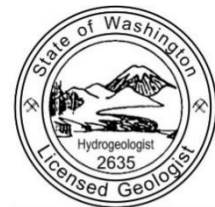
Associated Environmental Group, LLC



John Schenk
Staff Scientist



Scott Rose, L.H.G.
Senior Hydrogeologist

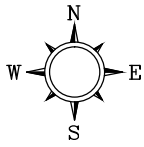


SCOTT I ROSE

cc: Panjini Balaraju – Ecology

Attachments: Figure 1 – *Vicinity Map*
Figure 2 – *10/06/2020 Groundwater Contour Map*
Table 1 – *Summary of Groundwater Elevations*
Table 2 – *Summary of Groundwater Analytical Results*
Appendix A – *Laboratory Datasheets*

FIGURES



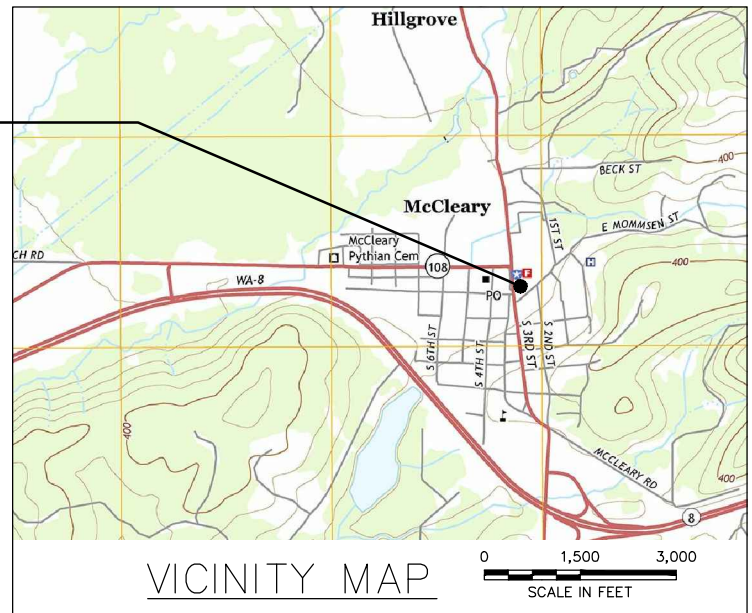
PROJECT
LOCATION

NOTES

1. THE LOCATIONS OF ALL FEATURES SHOWN ARE APPROXIMATE
2. THIS DRAWING IS FOR INFORMATION PURPOSES. IT IS INTENDED TO ASSIST IN SHOWING FEATURES DISCUSSED IN AN ATTACHED DOCUMENT.

REFERENCE

DRAWING CREATED FROM AERIAL PHOTOGRAPH
AND NOTES PROVIDED BY AEG, LLC.
VICINITY IMAGE SOURCE: U.S. GEOLOGICAL SURVEY--
2013, 7.5 MINUTE QUADRANGLE MAP
McCLeary, WASHINGTON



VICINITY MAP

0 1,500 3,000
SCALE IN FEET



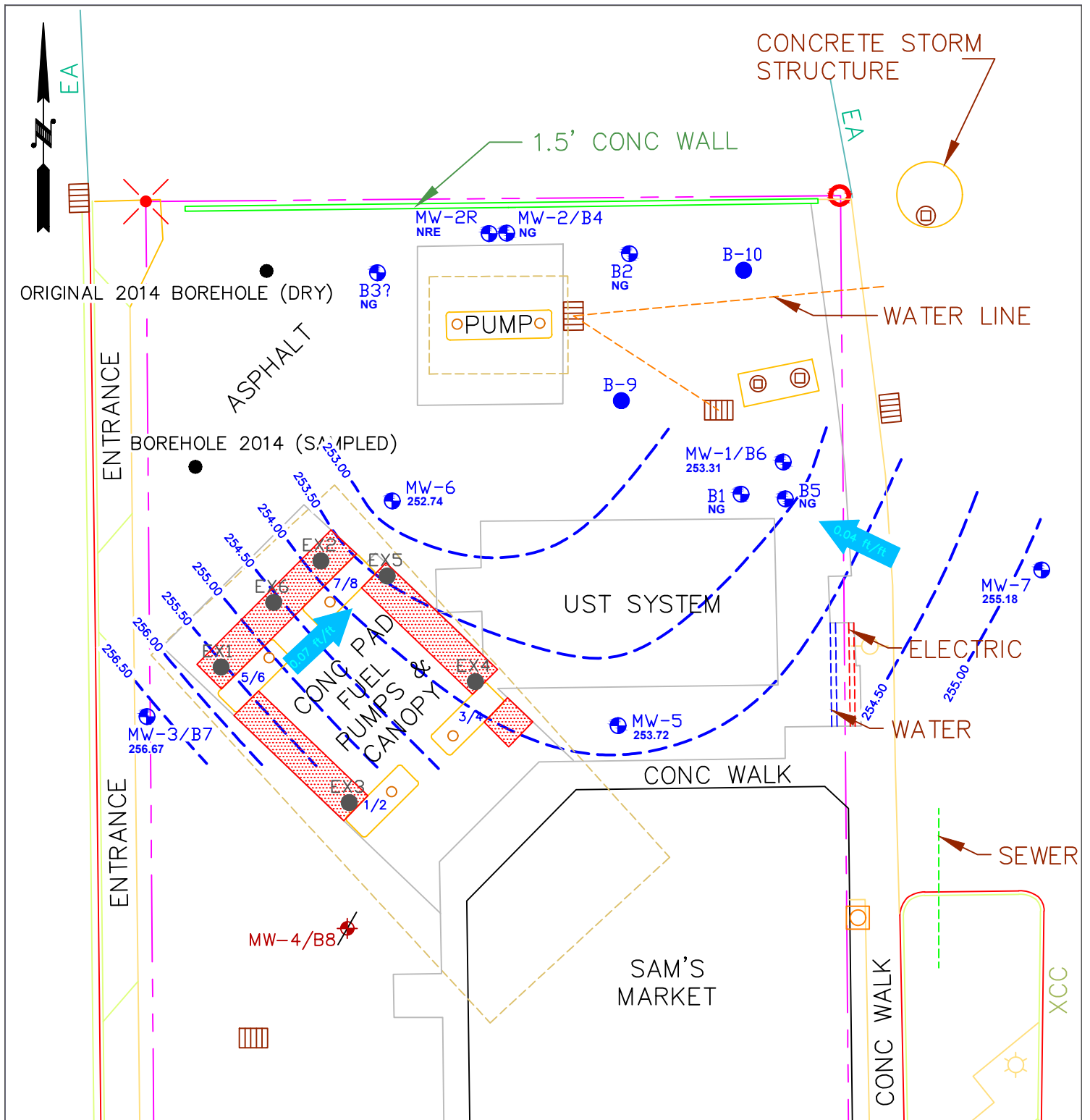
0 50 100
SCALE IN FEET



Associated
Environmental
Group, LLC

FIGURE 1
VICINITY MAP

SAM'S FOOD MART
140 SOUTH 3RD STREET
McCLeary, WASHINGTON

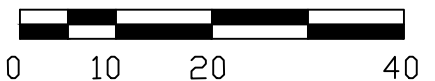


LEGEND

-  GROUNDWATER MONITORING WELLS
-  DESTROYED/PAVED OVER MONITORING WELLS
-  SOIL BORING (AEG 2008)

253.72
254.50 — GROUNDWATER ELEVATION (FEET)
— INFERRED GROUNDWATER ELEVATION CONTOUR LINE (FEET)
CONTOUR INTERVAL=0.50 FEET
APPROXIMATE GROUNDWATER GRADIENT DIRECTION (ft/ft)
0.04 ft/ft
NG NOT GAUGED
NRE NO REFERENCE ELEVATION

SCALE: 1"=20 FEET



Associated
Environmental
Group, LLC

FIGURE 2 - 10/06/2020
GROUNDWATER CONTOUR MAP

SAM'S FOOD MARKET
140 3RD STREET
McCLEARY, WA

Project# 07-230
File: SAM'S

Date: 10/20/20
Sheet

TABLES

Table 1 - Summary of Groundwater Elevations

Sam's Food Mart

McCleary, WA

Well Number/ TOC Elevation	Date of Measurement	Depth to Water	Depth to Free Product	Free Product Thickness	Groundwater Elevation	Change in Elevation
MW-1	2/9/2007	6.17	--	--	253.67	--
259.84	5/1/2008	6.11	--	--	253.73	0.06
	8/29/2008	6.40	--	--	253.44	-0.29
	12/9/2008	6.27	--	--	253.57	0.13
	3/17/2009	5.96	--	--	253.88	0.31
	8/29/2010	--	--	--	--	--
	8/16/2011	--	--	--	--	--
	1/10/2013	--	--	--	--	--
	4/25/2013	5.84	--	--	254.00	0.12
	7/26/2013	6.78	--	--	253.06	-0.94
	10/23/2013	6.54	--	--	253.30	0.24
	1/23/2014	6.09	--	--	253.75	0.45
	4/2/2015	6.96	--	--	252.88	-0.87
	7/12/2017	6.59	--	--	253.25	0.37
	12/28/2018	5.62	--	--	254.22	0.97
	10/6/2020	6.53	--	--	253.31	-0.91
MW-2*	2/9/2007	2.98	--	--	256.48	--
259.46	5/1/2008	2.94	--	--	256.52	0.04
	8/29/2008	2.98	--	--	256.48	-0.04
	12/9/2008	2.43	--	--	257.03	0.55
	3/17/2009	2.67	--	--	256.79	-0.24
	1/10/2013	--	--	--	--	--
	4/25/2013	3.48	--	--	255.98	-0.81
	7/26/2013	3.46	--	--	256.00	0.02
	10/23/2013	2.68	--	--	256.78	0.78
	1/23/2014	2.92	--	--	256.54	-0.24
	4/2/2015	4.41	--	--	255.05	-1.49
MW-2R	4/2/2015	4.80	--	--	--	--
--	7/12/2017	5.39	--	--	--	0.59
	12/28/2018	4.53	--	--	--	-0.86
	10/6/2020	4.93	--	--	--	0.40

Table 1 - Summary of Groundwater Elevations

Sam's Food Mart

McCleary, WA

Well Number/ TOC Elevation	Date of Measurement	Depth to Water	Depth to Free Product	Free Product Thickness	Groundwater Elevation	Change in Elevation
MW-3	2/9/2007	3.95	--	--	256.76	--
260.71	5/1/2008	4.63	--	--	256.08	-0.68
	8/29/2008	4.57	--	--	256.14	0.06
	12/9/2008	4.11	--	--	256.60	0.46
	3/17/2009	4.34	--	--	256.37	-0.23
	1/10/2013	--	--	--	--	--
	4/25/2013	4.24	--	--	256.47	0.10
	7/26/2013	4.51	--	--	256.20	-0.27
	10/23/2013	4.40	--	--	256.31	0.11
	1/23/2014	3.89	--	--	256.82	0.51
	4/2/2015	3.77	--	--	256.94	0.12
	7/12/2017	4.22	--	--	256.49	-0.45
	12/28/2018	3.88	--	--	256.83	0.34
	10/6/2020	4.04	--	--	256.67	-0.16
MW-4*	2/9/2007	2.68	--	--	257.54	--
260.22	5/1/2008	2.51	--	--	257.71	0.17
	8/29/2008	2.71	--	--	257.51	-0.20
	12/9/2008	2.57	--	--	257.65	0.14
	3/17/2009	2.48	--	--	257.74	0.09
	1/10/2013	--	--	--	--	--
	4/25/2013	2.62	--	--	257.60	-0.14
	7/26/2013	2.93	--	--	257.29	0.31
	10/23/2013	2.91	--	--	257.31	0.02
	1/23/2014	2.56	--	--	257.66	0.35
	4/2/2015	3.16	--	--	257.06	-0.60
	7/12/2017	Paved Over				
MW-5	5/1/2008	5.89	--	--	254.32	--
260.21	8/29/2008	6.30	--	--	253.91	-0.41
	12/9/2008	6.10	--	--	254.11	0.20
	3/17/2009	5.63	--	--	254.58	0.47
	1/10/2013	--	--	--	--	--
	4/25/2013	5.55	--	--	254.66	0.08
	7/26/2013	6.77	--	--	253.44	-1.22
	10/23/2013	6.48	--	--	253.73	0.29
	1/23/2014	5.97	--	--	254.24	0.51
	4/2/2015	5.65	--	--	254.56	0.32
	7/12/2017	6.55	--	--	253.66	-0.90
	12/28/2018	5.39	--	--	254.82	1.16
	10/6/2020	6.49	--	--	253.72	-1.10

Table 1 - Summary of Groundwater Elevations

Sam's Food Mart

McCleary, WA

Well Number/ TOC Elevation	Date of Measurement	Depth to Water	Depth to Free Product	Free Product Thickness	Groundwater Elevation	Change in Elevation
MW-6	5/1/2008	7.01	--	--	252.91	--
259.92	8/29/2008	7.26	--	--	252.66	-0.25
	12/9/2008	7.07	--	--	252.85	0.19
	3/17/2009	6.79	--	--	253.13	0.28
	8/29/2010	--	--	--	--	--
	8/16/2011	--	--	--	--	--
	1/10/2013	6.85	--	--	253.07	-0.06
	4/25/2013	6.86	--	--	253.06	-0.01
	7/26/2013	7.27	--	--	252.65	-0.41
	10/23/2013	7.14	--	--	252.78	0.13
	1/23/2014	7.12	--	--	252.80	0.02
	4/2/2015	5.83	--	--	254.09	1.29
	7/12/2017	7.39	--	--	252.53	-1.56
	12/28/2018	6.69	--	--	253.23	0.70
	10/6/2020	7.18	--	--	252.74	-0.49
MW-7	5/1/2008	4.96	--	--	255.71	--
260.67	8/29/2008	5.74	--	--	254.93	-0.78
	12/9/2008	5.38	--	--	255.29	0.36
	3/17/2009	5.79	--	--	254.88	-0.41
	1/10/2013	--	--	--	--	--
	4/25/2013	5.19	--	--	255.48	0.60
	7/26/2013	6.83	--	--	253.84	-1.64
	10/23/2013	5.28	--	--	255.39	1.55
	1/23/2014	4.97	--	--	255.70	0.31
	4/2/2015	4.71	--	--	255.96	0.26
	7/12/2017	5.39	--	--	255.28	-0.68
	12/28/2018	5.18	--	--	255.49	0.21
	10/6/2020	5.49	--	--	255.18	-0.31

Notes

All values reported in feet

TOC = Top of casing elevation relative to assigned benchmark.

-- = Not measured, not available, or not applicable

*No longer sampling this well.

Table 2 - Summary of Groundwater Analytical Results
Sam's Food Mart
McCleary, Washington

Well Numbers	Date Sampled	Total Petroleum Hydrocarbons				Select Volatile Organic Compounds				
		Gasoline	Diesel	Heavy Oil	Mineral Oil	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-1	2/9/2007	9,460	<200	<400	<400	18.6	54.4	89.6	552	--
	5/1/2008	6,540	<200	<400	<400	17	10.7	161	445	--
	8/29/2008	4,880	<200	<400	<400	6	5.3	52.2	280	--
	12/9/2008	5,400	<200	<400	<400	18	8.3	78	200	--
	3/17/2009	1,800	--	--	--	7.8	1.9	8.3	113	--
	8/29/2010	290	--	--	--	13	<1.0	7.2	11.1	<1.0
	8/16/2011	1,000	<250	<500	--	27	<1.0	16	89	--
	1/10/2013	--	--	--	--	--	--	--	--	--
	4/25/2013	<100	--	--	--	<1.0	<2.0	<1.0	<2.0	--
	7/26/2013	757	--	--	--	2.8	<2.0	6.5	23.1	--
	10/23/2013	388	--	--	--	1.6	<2.0	6.1	25	--
	1/23/2014	430	--	--	--	1.9	<2.0	7.8	32.4	--
	4/2/2015	545	--	--	--	26.6	7.1	12.5	71.6	<5.0
	7/12/2017	418	--	--	--	87	39	1.9	15	--
	12/28/2018	144	--	--	--	33	8.1	<1.0	4.6	--
	10/6/2020	<100	--	--	--	<1.0	<2.0	<1.0	<2.0	--
MW-2*	2/9/2007	<100	<200	<400	<400	<1.0	<2.0	<1.0	<3.0	--
	5/1/2008	<100	<200	<400	<400	2.5	2.9	<1.0	2.5	--
	8/29/2008	<100	<200	<400	<400	2.2	4.5	<1.0	5.6	--
	12/9/2008	<100	<200	<400	<400	<1.0	<2.0	<1.0	<3.0	--
	8/16/2011	<100	<250	<500	--	<1.0	<1.0	<1.0	<3.0	--
	4/2/2015	<100	--	--	--	<1.0	<1.0	<1.0	<2.0	<5.0
MW-2R	3/12/2015	<100	<250	<500	--	<1.0	<1.0	<1.0	<3.0	--
	4/2/2015	<100	--	--	--	<1.0	<1.0	<1.0	<2.0	<5.0
	7/12/2017	<100	--	--	--	<1.0	<2.0	<1.0	<2.0	--
	12/28/2018	<100	--	--	--	<1.0	<2.0	<1.0	<2.0	--
	10/6/2020	<100	--	--	--	<1.0	<2.0	<1.0	<2.0	--
MW-3	2/9/2007	<100	<200	<400	<400	<1.0	<2.0	<1.0	<3.0	--
	5/1/2008	<100	<200	<400	<400	<1.0	<2.0	<1.0	<3.0	--
	8/29/2008	<100	<200	<400	<400	<1.0	<2.0	<1.0	<3.0	--
	12/9/2008	<100	<200	<400	<400	<1.0	<2.0	<1.0	<3.0	--
	8/16/2011	<100	<250	<500	--	<1.0	<1.0	<1.0	<3.0	--
	4/2/2015	<100	--	--	--	<1.0	<1.0	<1.0	<2.0	<5.0
	7/12/2017	<100	--	--	--	<1.0	<2.0	<1.0	<2.0	--
	12/28/2018	<100	--	--	--	<1.0	<2.0	<1.0	<2.0	--
	10/6/2020	<100	--	--	--	<1.0	<2.0	<1.0	<2.0	--

Table 2 - Summary of Groundwater Analytical Results
Sam's Food Mart
McCleary, Washington

Well Numbers	Date Sampled	Total Petroleum Hydrocarbons				Select Volatile Organic Compounds				
		Gasoline	Diesel	Heavy Oil	Mineral Oil	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-4*	2/9/2007	<100	<200	<400	<400	<1.0	<2.0	<1.0	<3.0	--
	5/1/2008	<100	<200	<400	<400	<1.0	<2.0	<1.0	<3.0	--
	8/29/2008	<100	<200	<400	<400	<1.0	20.5	<1.0	<3.0	--
	12/9/2008	<100	<200	<400	<400	<1.0	<2.0	<1.0	<3.0	--
	8/16/2011	<100	<250	<500	--	<1.0	4.4	<1.0	<3.0	--
	4/2/2015	<100	--	--	--	<1.0	<1.0	<1.0	<2.0	<5.0
	7/12/2017	Paved Over								
MW-5	5/1/2008	<100	<200	<400	<400	<1.0	<2.0	<1.0	<3.0	--
	8/29/2008	<100	<200	<400	<400	<1.0	<2.0	<1.0	<3.0	--
	12/9/2008	<100	<200	<400	<400	<1.0	<2.0	<1.0	<3.0	--
	3/17/2009	<100	<200	<400	<400	<1.0	<2.0	<1.0	<3.0	--
	8/16/2011	<100	<250	<500	--	<1.0	<1.0	<1.0	<3.0	--
	4/2/2015	<100	--	--	--	<1.0	<1.0	<1.0	<2.0	<5.0
	7/12/2017	<100	--	--	--	6.5	<2.0	<1.0	<2.0	--
	12/28/2018	<100	--	--	--	<1.0	<2.0	<1.0	<2.0	--
	10/6/2020	<100	--	--	--	<1.0	<2.0	<1.0	<2.0	--
MW-6	5/1/2008	17,800	<200	<400	<400	1,430	950	<1.0	2,100	--
	8/29/2008	7,600	<200	<400	<400	548	343	138	582	--
	12/9/2008	17,000	<200	<400	<400	680	270	230	2,000	--
	3/17/2009	16,700	--	--	--	1,300	819	318	1,170	--
	8/29/2010	1,200	--	--	--	380	<1.0	<1.0	52	1.6
	8/16/2011	12,500	<250	<500	--	2,000	34	640	1,500	--
	1/10/2013	396	--	--	--	13.2	7.38	4.03	19.8	--
	4/25/2013	2,380	--	--	--	150	13.2	37.6	52.1	--
	7/26/2013	3,830	--	--	--	149	11	41	50	--
	10/23/2013	651	--	--	--	86	2.2	13	14	--
	1/23/2014	1,370	--	--	--	122	4.3	16.5	20.5	--
	4/2/2015	1,210	--	--	--	65.1	24.2	13.7	46.7	<5.0
	7/12/2017	838	--	--	--	68	2.9	3.0	11.0	--
	12/28/2018	295	--	--	--	6.4	<2.0	<1.0	<2.0	--
	10/6/2020	550	--	--	--	21	<2.0	<1.0	3.2	--

Table 2 - Summary of Groundwater Analytical Results
 Sam's Food Mart
 McCleary, Washington

Well Numbers	Date Sampled	Total Petroleum Hydrocarbons				Select Volatile Organic Compounds				
		Gasoline	Diesel	Heavy Oil	Mineral Oil	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-7	5/1/2008	<100	<200	<400	<400	<1.0	<2.0	<1.0	<3.0	--
	8/29/2008	<100	<200	<400	<400	<1.0	<2.0	<1.0	<3.0	--
	12/9/2008	<100	<200	<400	<400	<1.0	<2.0	<1.0	<3.0	--
	3/17/2009	<100	--	--	--	<1.0	<2.0	<1.0	<3.0	--
	4/2/2015	<100	--	--	--	<1.0	<1.0	<1.0	<2.0	<5.0
	7/12/2017	<100	--	--	--	<1.0	<2.0	<1.0	<2.0	--
	12/28/2018	<100	--	--	--	<1.0	<2.0	<1.0	<2.0	--
	10/6/2020	<100	--	--	--	<1.0	<2.0	<1.0	<2.0	--
PQL		100	200	400	400	1.0	2.0	1.0	2.0 / 3.0	1.0 / 5.0
MTCA Method A Cleanup Levels		800 ¹	500	500	500	5.0	1,000	700	1,000	20

Notes:

All values reported in micrograms per liter (µg/L)

-- = Not analyzed for constituent

< = Not detected at the listed laboratory detection limits

PQL = Practical Quantification Limit (laboratory detection limit)

MTBE = Methyl tert-butyl ether

Red Bold indicates the detected concentration exceeds Ecology MTCA Method A cleanup level

Bold indicates the detected concentration is below Ecology MTCA Method A cleanup levels

¹ TPH-Gasoline Cleanup Level with the presence of Benzene anywhere at the Site

*No longer sampling this well.

APPENDIX A

LABORATORY DATASHEETS



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

October 8, 2020

Scott Rose
Associated Environmental Group, LLC
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Dear Mr. Rose:

Please find enclosed the analytical data report for the Sams Food Mart Project located in McCleary, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

SAMS FOOD MART PROJECT
AEG, LLC
McCleary, Washington
Libby Project # L201006-1
Client Project # 07-230

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260D) in Water

Sample Description	Method	MW-1	MW-2R	MW-3	MW-5	MW-6
	Blank					
Date Sampled	N/A	10/6/2020	10/6/2020	10/6/2020	10/6/2020	10/6/2020
Date Analyzed	PQL	10/6/2020	10/6/2020	10/6/2020	10/6/2020	10/6/2020
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Benzene	1.0	nd	nd	nd	nd	21
Toluene	2.0	nd	nd	nd	nd	nd
Ethylbenzene	1.0	nd	nd	nd	nd	nd
Total Xylenes	2.0	nd	nd	nd	nd	3.2
Gasoline	100	nd	nd	nd	nd	550
Surrogate Recovery						
Dibromofluoromethane	103	103	106	106	109	100
1,2-Dichloroethane-d4	103	99	104	110	108	108
Toluene-d8	97	96	95	96	93	90
4-Bromofluorobenzene	93	89	90	89	89	92

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

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Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260D) in Water

Sample Description		MW-7	MW-7 Dup
Date Sampled		10/6/2020	10/6/2020
Date Analyzed	PQL	10/6/2020	10/6/2020
	(µg/L)	(µg/L)	(µg/L)
Benzene	1.0	nd	nd
Toluene	2.0	nd	nd
Ethylbenzene	1.0	nd	nd
Total Xylenes	2.0	nd	nd
Gasoline	100	nd	nd
Surrogate Recovery			
Dibromofluoromethane		107	107
1,2-Dichloroethane-d4		106	112
Toluene-d8		95	94
4-Bromofluorobenzene		85	88

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

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QA/QC for Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260D) in Water

Matrix Spike Sample Identification: L201002-9

	Spiked Conc. (µg/L)	MS Response (µg/L)	MSD Response (µg/L)	MS Recovery (%)	MSD Recovery (%)	RPD (%)	Limits Recovery (%)	Data Flag
Benzene	5.0	4.8	5.2	96	104	8.0	65-135	
Toluene	5.0	4.3	4.7	86	94	8.9	65-135	
Ethylbenzene	5.0	4.5	4.7	90	94	4.3	65-135	
Total Xylenes	15.0	12.5	13.0	83	87	4.2	65-135	

Surrogate Recovery (%)		MS	MSD	
Dibromofluoromethane		106	106	65-135
1,2-Dichloroethane-d4		103	107	65-135
Toluene-d8		98	98	65-135
4-Bromofluorobenzene		96	97	65-135

ACCEPTABLE RPD IS 35%

ANALYSES PERFORMED BY: Sherry Chilcutt

Laboratory Control Sample

	Spiked Conc. (µg/L)	LCS Response (µg/L)	LCS Recovery (%)	LCS Recovery Limits (%)	Data Flag
Benzene	5.0	5.3	106	80-120	
Toluene	5.0	4.8	96	80-120	
Ethylbenzene	5.0	5.0	101	80-120	
Total Xylenes	15.0	14.1	94	80-120	

Surrogate Recovery				
Dibromofluoromethane			99	65-135
1,2-Dichloroethane-d4			94	65-135
Toluene-d8			99	65-135
4-Bromofluorobenzene			96	65-135

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

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SAMS FOOD MART PROJECT

AEG, LLC

Libby Project # L201006-1

Date Received 10/6/2020

Time Received 1:15 PM

Received By KD

Sample Receipt Checklist

Chain of Custody

- | | | | |
|--------------------------------------|--|------------------------------------|----------------------------------|
| 1. Is the Chain of Custody complete? | ☒ Yes | ☐ No | |
| 2. How was the sample delivered? | ☒ Hand Delivered | ☐ Picked Up | ☐ Shipped |

Log In

- | | | | |
|---|---|--|------------------------------|
| 3. Cooler or Shipping Container is present. | ☒ Yes | ☐ No | ☐ N/A |
| 4. Cooler or Shipping Container is in good condition. | ☒ Yes | ☐ No | ☐ N/A |
| 5. Cooler or Shipping Container has Custody Seals present. | ☐ Yes | ☒ No | ☐ N/A |
| 6. Was an attempt made to cool the samples? | ☒ Yes | ☐ No | ☐ N/A |
| 7. Temperature of cooler (0°C to 8°C recommended) | <u>0.0 °C</u> | | |
| 8. Temperature of sample(s) (0°C to 8°C recommended) | <u>4.8 °C</u> | | |
| 9. Did all containers arrive in good condition (unbroken)? | ☒ Yes | ☐ No | |
| 10. Is it clear what analyses were requested? | ☒ Yes | ☐ No | |
| 11. Did container labels match Chain of Custody? | ☒ Yes | ☐ No | |
| 12. Are matrices correctly identified on Chain of Custody? | ☒ Yes | ☐ No | |
| 13. Are correct containers used for the analysis indicated? | ☒ Yes | ☐ No | |
| 14. Is there sufficient sample volume for indicated analysis? | ☒ Yes | ☐ No | |
| 15. Were all containers properly preserved per each analysis? | ☒ Yes | ☐ No | |
| 16. Were VOA vials collected correctly (no headspace)? | ☒ Yes | ☐ No | ☐ N/A |
| 17. Were all holding times able to be met? | ☒ Yes | ☐ No | |

Discrepancies/ Notes

- | | | | |
|---|------------------------------|-----------------------------|---|
| 18. Was client notified of all discrepancies? | ☐ Yes | ☐ No | ☒ N/A |
|---|------------------------------|-----------------------------|---|

Person Notified: _____

Date: _____

By Whom: _____

Via: _____

Regarding: _____

19. Comments. _____

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Client: **AE6**

Address: **605 11th Ave SE Suite 201**

City: **Olympia** State: **WA** Zip: **98501**

Phone: **(360) 352 9835** Fax:

Client Project # **07-230**

Date: **10/6/20**

Page: **1** of **1**

Project Manager: **Scott Rose**

Project Name: **Sam's Food Mart**

Location: **1405 3rd St** City, State: **MCCleary WA**

Collector: **Foster Koetzel** Date of Collection: **10/5/20**

Email: **SRose@AE6WA.com**



Sample Number	Depth	Time	Sample Type	Container Type	VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-Gx	NWTPH-Dx	PAH 8270	PCB's 8082	MTCA 5 Metals	Field Notes
1 MW-1		1026	GW	VOA					X					X	
2 MW-2R		1128	GW	VOA					X					X	
3 MW-3		0956	GW	VOA					X					X	
4 MW-5		1101	GW	VOA					X					X	
5 MW-6		0923	GW	VOA					X					X	
6 MW-7		1156	GW	VOA					X					X	
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															

Relinquished by: [Signature]	Date / Time: 10/6/20 1315	Received by: [Signature]	Date / Time: 10-6-20 1315	Sample Receipt:	Remarks:
Relinquished by:	Date / Time:	Received by:	Date / Time:	Good Condition?	
				Cold?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Seals Intact?	
				Total Number of Containers	