



July 2, 2015

Mr. Ted Kistler
 4932 Boston Harbor Road NE
 Olympia, Washington 98506-1852

RE: **June 2015 Groundwater Sampling Results Report**
 Gull Harbor Mercantile (Ecology VCP Site No. SW0777)
 4932 Boston Harbor Road NE
 Olympia, Washington 98506-1852

Dear Mr. Kistler:

Associated Environmental Group, LLC (AEG) has prepared the enclosed **Groundwater Sampling Results Report** presenting results of groundwater sampling conducted on June 15, 2015, at the above-referenced Subject Site/Site in Olympia, Washington (Figure 1, *Vicinity Map*). Figure 2, *June 2015 Groundwater Contour Map*, shows the locations of Site features and monitoring wells.

WORK PERFORMED [June- 2015]:

- Obtained depth to groundwater data from twelve groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, and MW-12); and
- Purged and sampled ten groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-9, MW-10, MW-11, and MW-12).

WORK PROPOSED FOR [December - 2015]:

- Obtain depth to groundwater data from twelve groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, and MW-12); and
- Purge and sample ten groundwater monitoring wells (MW-1 through MW-6, and MW-9 through MW-12).

SUMMARY:

Sampling Event:	June 2015	Values
Approximate Depth to Groundwater:	9.28 to 12.61	Feet below top of well casing (Table 1, <i>Summary of Groundwater Elevations</i>)
Groundwater Gradient: (Direction / Magnitude)	0.029 / Westerly	Feet per foot
Measureable NAPL Detected:	No	
Measureable NAPL Thickness:	N/A	
Current Remedial Action:	Yes	DPVE (Not operating due to neighbor's complaints of vibrations affecting health)

DISCUSSION:

The analytical data for the June 2015 sampling event showed that monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-10, MW-11, and MW-12 had detectable concentrations of constituents of concern. The laboratory analytical results for monitoring wells with detectable concentrations are shown in the table below. The full analytical results for this sampling event, as well as the historical analytical results, are presented in the attached Table 2, *Summary of Groundwater Analytical Results*.

June 2015					
Well ID	TPH-Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MW-1	46,800	36.6	2,320	282	10,400
MW-2	161,000	7,530.0	22,500.0	2,720	20,900
MW-3	211,000	10,600	44,700	2,560.0	21,000
MW-4	27,500	4.8	1,130	497	4,660
MW-5	91,400	25,800	10,500	1,070	5,970
MW-10	221,000	36,900	52,300	3,380	23,700
MW-11	142,000	9,800	22,300	1,190	15,900
MW-12	2,940	6.5	6.5	114	197
MTCA Method A Cleanup Levels	800	5	1,000	700	1,000

The analytical results show that all concentrations of constituents of concern have increased in monitoring wells MW-1, MW-2, MW-3, and MW-4, from the previous sampling event in February of 2015, and in monitoring wells MW-10, and MW-11 (with the exception of ethylbenzene in MW-11), from the previous sampling event in April of 2015. Monitoring well MW-5 shows an increase in benzene concentration and a decrease in concentration of all other constituents of concern from the previous sampling event. Monitoring well MW-12 showed a decrease in concentrations of benzene and toluene and an increase in concentrations of ethylbenzene, total xylenes and gasoline-range total petroleum hydrocarbons (TPH) from the previous sampling event.

Gasoline-range TPH was detected in monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-10, MW-11, and MW-12, above the Washington State Department of Ecology (Ecology) Model Toxics Control Act (MTCA) Method A cleanup level of 800 µg/L.

Benzene was detected in monitoring wells MW-1, MW-2, MW-3, MW-5, MW-10, MW-11, and MW-12, above Ecology's MTCA Method A cleanup level, and below the MTCA Method A cleanup level in monitoring well MW-4.

Toluene was detected in monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-10, and MW-11, above Ecology's MTCA Method A cleanup level, and below the MTCA Method A cleanup level in monitoring well MW-12.

Ethylbenzene was detected in monitoring wells MW-2, MW-3, MW-5, MW-10, and MW-11, above Ecology's MTCA Method A cleanup level, and below the MTCA Method A cleanup level in monitoring wells MW-1, MW-4, and MW-12.

Total xylenes were detected in monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-10, and MW-11, above Ecology's MTCA Method A cleanup level, and below the MTCA Method A cleanup level in monitoring well MW-12.

No constituents of concern were detected in monitoring wells MW-6 or MW-9 during the June 2015 sampling event.

The direction of groundwater flow appears to be to the west with an approximate gradient of 0.029 feet per foot. The groundwater flows are presented in the attached Figure 2, *June 2015 Groundwater Contour Map*.

CLOSING:

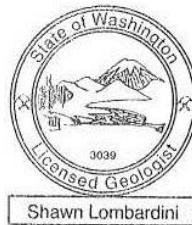
Thank you for the opportunity to provide you with environmental consulting services. Should you have questions or require additional information, please do not hesitate to contact me at 360-352-9835.

Sincerely,

Associated Environmental Group, LLC



Nicolas Pushckor
Staff Geologist



Shawn Lombardini



Shawn Lombardini, L.G.
Project Geologist

cc: Khan Adams, Great American Insurance

Attachments: Figure 1 – *Vicinity Map*
Figure 2 – *June 2015 Groundwater Contour Map*

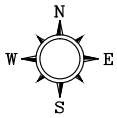
Table 1 – *Summary of Groundwater Elevations*
Table 2 – *Summary of Groundwater Analytical Results*

Appendix A – *Laboratory Datasheets*

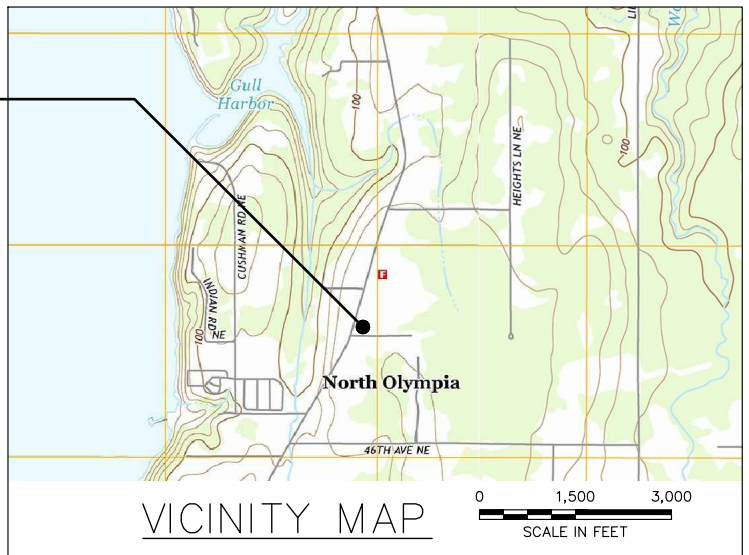
FIGURES

FILENAME	DRAWN BY	CHECKED BY	APPROVED BY	PROJECT NUMBER
05-218_1404_2.DWG	ICD	10/30/2014	NP	10/30/2014

05-218



PROJECT LOCATION




NOTES

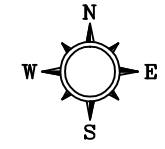
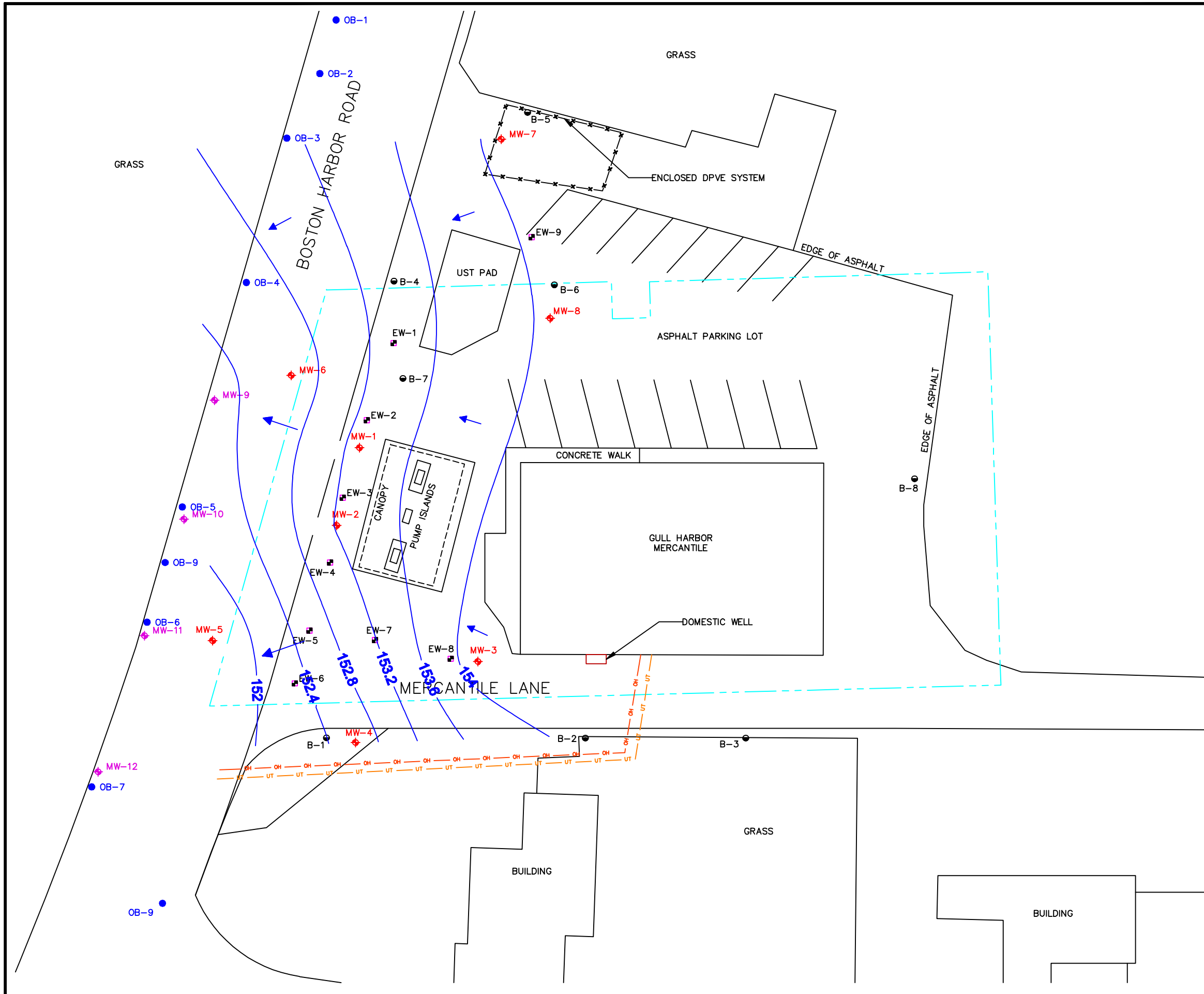
1. THE LOCATIONS OF ALL FEATURES SHOWN ARE APPROXIMATE
2. THIS DRAWING IS FOR INFORMATION PURPOSES. IT IS INTENDED TO ASSIST IN SHOWING FEATURES DISCUSSED IN AN ATTACHED DOCUMENT.

REFERENCE

DRAWING CREATED FROM AERIAL PHOTOGRAPH AND NOTES PROVIDED BY AEG, LLC.
VICINITY IMAGE SOURCE: U.S. GEOLOGICAL SURVEY-2014, 7.5 MINUTE QUADRANGLE MAP OLYMPIA, WASHINGTON



 ASSOCIATED ENVIRONMENTAL GROUP, LLC
<p>FIGURE 1 VICINITY MAP</p>
<p>GULL HARBOR MERCANTILE 4932 BOSTON HARBOR ROAD NE OLYMPIA, WASHINGTON</p>



LEGEND

	PROPERTY LINE
	GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
	APRIL 2015 GROUNDWATER MONITORING WELL LOCATIONS
	EXTRACTION WELL- DPVE
	SOIL SAMPLING LOCATION
	FENCE
	OVERHEAD UTILITY LINE
	UNDERGROUND TELEPHONE LINE

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.



ASSOCIATED ENVIRONMENTAL GROUP, LLC

FIGURE 2
JUNE 2015 GROUNDWATER CONTOUR MAP

GULL HARBOR MERCANTILE
4932 BOSTON HARBOR ROAD NE
OLYMPIA, WASHINGTON

TABLES

Table 1 - Summary of Groundwater ElevationsGull Harbor Mercantile
Olympia, Washington

Well Number/ TOC Elevation (feet)	Date of Measurement	Depth to Water (feet)	Depth to Free Product (feet)	Free Product Height (feet)	Groundwater Elevation (feet)	Change in Groundwater Elevation (feet)
MW-1	09/08/05	11.98	--	--	151.49	--
163.47	1/19/2006	3.73	--	--	159.74	8.25
	03/03/06	6.20	--	--	157.27	-2.47
	11/08/06	6.63	--	--	156.84	-0.43
	05/10/07	7.22	--	--	156.25	-0.59
	02/10/09	6.80	--	--	156.67	0.42
	03/24/10	7.72	--	--	155.75	-0.92
	07/07/10	8.69	--	--	154.78	-0.97
	10/26/10	10.30	--	--	153.17	-1.61
	05/25/11	6.90	--	--	156.57	3.40
	11/04/11	11.68	--	--	151.79	-4.78
	01/10/12	6.23	--	--	157.24	5.45
	10/19/12	--	--	--	--	--
	04/09/13	7.37	--	--	156.10	-1.14
	07/18/13	10.41	--	--	153.06	-3.04
	10/17/13	9.02	--	--	154.45	1.39
	01/10/14	8.71	--	--	154.76	0.31
	08/20/14	11.76	--	--	151.71	-3.05
	02/19/15	5.35	--	--	158.12	6.41
	06/15/15	10.15	--	--	153.32	-4.80
MW-2	09/08/05	11.95	--	--	151.40	--
163.35	1/19/2006	4.22	--	--	159.13	7.73
	03/03/06	5.86	--	--	157.49	-1.64
	11/08/06	6.44	--	--	156.91	-0.58
	05/10/07	7.26	--	--	156.09	-0.82
	02/10/09	6.62	--	--	156.73	0.64
	03/24/10	7.55	--	--	155.80	-0.93
	07/07/10	8.74	--	--	154.61	-1.19
	10/26/10	10.37	--	--	152.98	-1.63
	05/25/11	6.60	--	--	156.75	3.77
	11/04/11	11.20	--	--	152.15	-4.60
	01/10/12	5.93	--	--	157.42	5.27
	10/19/12	13.71	--	--	149.64	-7.78
	04/09/13	7.80	--	--	155.55	5.91
	07/18/13	10.12	--	--	153.23	-2.32
	10/17/13	9.00	--	--	154.35	1.12
	01/10/14	8.91	--	--	154.44	0.09
	08/20/14	11.65	--	--	151.70	-2.74
	02/19/15	4.90	--	--	158.45	6.75
	06/15/15	10.12	--	--	153.23	-5.22

Table 1 - Summary of Groundwater ElevationsGull Harbor Mercantile
Olympia, Washington

Well Number/ TOC Elevation (feet)	Date of Measurement	Depth to Water (feet)	Depth to Free Product (feet)	Free Product Height (feet)	Groundwater Elevation (feet)	Change in Groundwater Elevation (feet)
MW-3	09/08/05	11.70	--	--	151.89	--
163.59	1/19/2006	3.05	--	--	160.54	8.65
	03/03/06	5.02	--	--	158.57	-1.97
	11/08/06	5.52	--	--	158.07	-0.50
	05/10/07	7.05	6.90	0.15	156.66	-1.41
	02/10/09	6.89	--	--	156.70	0.04
	03/24/10	6.54	--	--	157.05	0.35
	07/07/10	7.90	--	--	155.69	-1.36
	10/26/10	9.05	--	--	154.54	-1.15
	05/25/11	5.90	--	--	157.69	3.15
	11/04/11	11.09	--	--	152.50	-5.19
	01/10/12	5.13	--	--	158.46	5.96
	10/19/12	13.58	13.57	0.01	150.02	-8.44
	04/09/13	6.12	--	--	157.47	7.45
	07/18/13	9.52	--	--	154.07	-3.40
	10/17/13	8.23	--	--	155.36	1.29
	01/10/14	8.27	--	--	155.32	-0.04
	08/20/14	10.85	--	--	152.74	-2.58
	02/19/15	4.44	--	--	159.15	6.41
	06/15/15	9.39	--	--	154.20	-4.95
MW-4	09/08/05	5.60	--	--	157.37	--
162.97	1/19/2006	5.60	--	--	157.37	0.00
	03/03/06	5.60	--	--	157.37	0.00
	11/08/06	5.60	--	--	157.37	0.00
	05/10/07	7.45	--	--	155.52	-1.85
	02/10/09	6.96	--	--	156.01	0.49
	03/24/10	6.98	--	--	155.99	-0.02
	07/07/10	8.68	--	--	154.29	-1.70
	10/26/10	10.75	--	--	152.22	-2.07
	05/25/11	6.50	--	--	156.47	4.25
	11/04/11	12.50	--	--	150.47	-6.00
	01/10/12	5.95	--	--	157.02	6.55
	10/19/12	13.91	--	--	149.06	-7.96
	04/09/13	6.72	--	--	156.25	7.19
	07/18/13	10.08	--	--	152.89	-3.36
	10/17/13	7.44	--	--	155.53	2.64
	01/10/14	9.33	--	--	153.64	-1.89
	08/20/14	12.89	--	--	150.08	-3.56
	02/19/15	4.97	--	--	158.00	7.92
	06/15/15	10.42	--	--	152.55	-5.45

Table 1 - Summary of Groundwater Elevations
 Gull Harbor Mercantile
 Olympia, Washington

Well Number/ TOC Elevation (feet)	Date of Measurement	Depth to Water (feet)	Depth to Free Product (feet)	Free Product Height (feet)	Groundwater Elevation (feet)	Change in Groundwater Elevation (feet)
MW-5	09/08/05	9.14	--	--	153.82	--
162.96	1/19/2006	9.14	--	--	153.82	0.00
	03/03/06	9.14	--	--	153.82	0.00
	11/08/06	9.14	--	--	153.82	0.00
	05/10/07	9.14	8.80	0.34	154.09	0.27
	02/10/09	8.60	7.93	0.67	154.90	0.80
	03/24/10	8.52	--	--	154.44	-0.46
	07/07/10	9.99	--	--	152.97	-1.47
	10/26/10	11.18	--	--	151.78	-1.19
	05/25/11	7.90	--	--	155.06	3.28
	11/04/11	11.98	--	--	150.98	-4.08
	01/10/12	7.57	--	--	155.39	4.41
	10/19/12	14.78	14.57	0.21	148.35	-7.04
	04/09/13	8.98	--	--	153.98	5.63
	07/18/13	11.25	--	--	151.71	-2.27
	10/17/13	10.52	--	--	152.44	0.73
	01/10/14	10.10	--	--	152.86	0.42
	08/20/14	12.60	--	--	150.36	-2.50
	02/19/15	6.34	--	--	156.62	6.26
	06/15/15	11.32	--	--	151.64	-4.98
MW-6	11/08/06	--	--	--	--	--
163.16	05/10/07	7.76	--	--	155.40	--
	02/10/09	7.60	--	--	155.56	0.16
	03/24/10	7.68	--	--	155.48	-0.08
	07/07/10	8.79	--	--	154.37	-1.11
	10/26/10	10.70	--	--	152.46	-1.91
	05/25/11	7.10	--	--	156.06	3.60
	11/04/11	--	--	--	--	--
	01/10/12	--	--	--	--	--
	10/19/12	--	--	--	--	--
	10/17/13	9.42	--	--	153.74	-2.32
	01/10/14	8.79	--	--	154.37	0.63
	08/20/14	12.25	--	--	150.91	-3.46
	02/19/15	5.71	--	--	157.45	6.54
	06/15/15	10.61	--	--	152.55	-4.90

Table 1 - Summary of Groundwater ElevationsGull Harbor Mercantile
Olympia, Washington

Well Number/ TOC Elevation (feet)	Date of Measurement	Depth to Water (feet)	Depth to Free Product (feet)	Free Product Height (feet)	Groundwater Elevation (feet)	Change in Groundwater Elevation (feet)
MW-7*	11/08/06	4.05	--	--	159.33	--
163.38	05/10/07	5.79	--	--	157.59	-1.74
	02/10/09	5.46	--	--	157.92	0.33
	03/24/10	4.91	--	--	158.47	0.55
	07/07/10	5.66	--	--	157.72	-0.75
	10/26/10	7.48	--	--	155.90	-1.82
	05/25/11	4.70	--	--	158.68	2.78
	10/17/13	6.63	--	--	156.75	-1.93
	01/10/14	5.74	--	--	157.64	0.89
	08/20/14	11.14	--	--	152.24	-5.40
	02/19/15	4.18	--	--	159.20	6.96
	06/15/15	9.28	--	--	154.10	-5.10
MW-8*	11/08/06	5.10	--	--	158.90	--
164.00	05/10/07	6.57	--	--	157.43	-1.47
	02/10/09	6.00	--	--	158.00	0.57
	03/24/10	6.01	--	--	157.99	-0.01
	07/07/10	6.58	--	--	157.42	-0.57
	10/26/10	8.57	--	--	155.43	-1.99
	05/25/11	5.51	--	--	158.49	3.06
	10/17/13	7.90	--	--	156.10	-2.39
	01/10/14	7.24	--	--	156.76	0.66
	08/20/14	12.59	--	--	151.41	-5.35
	02/19/15	4.49	--	--	159.51	8.10
	06/15/15	9.95	--	--	154.05	-5.46
MW-9	06/15/15	11.18	--	--	--	--
--						
MW-10	06/15/15	12.11	--	--	--	--
--						
MW-11	06/15/15	12.61	--	--	--	--
--						
MW-12	06/15/15	12.40	--	--	--	--
--						

Notes:

TOC = Top of casing elevation relative to assigned benchmark.

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

* Ceased groundwater monitoring/sampling activities at this well.

Table 2 - Summary of Groundwater Analytical Results

Gull Harbor Mercantile

Olympia, WA

Sample Number	Date Sampled	Select Volatile Organic Compounds (ug/L)				Gasoline TPH (ug/L)	Table 830-1 Constituents (ug/L)				
		Benzene	Toluene	Ethylbenzene	Total Xylenes		Total Lead	1,2-Dichloroethane (EDC)	1,2-Dibromoethane (EDB)	Total Naphthalenes	Methyl tertiary-butyl ether (MTBE)
MW-1	9/9/2005	1,010	830	--	1,240	22,000	--	--	--	--	--
	1/19/2006	640	3,240	770	44,050	31,000	--	--	--	--	--
	3/3/2006	2,120	4,760	1,220	6,590	49,800	--	--	--	--	--
	11/8/2006	--	--	--	--	--	--	--	--	--	--
	5/10/2007	4,900	31,800	8,680	42,300	293,000	--	--	--	--	--
	2/10/2009	420	9,170	1,830	12,330	37,670	--	--	--	--	--
	3/24/2010	2,760	30,200	4,390	27,000	209,000	--	--	--	--	--
	7/7/2010	640	12,300	1,630	10,400	66,800	--	--	--	--	--
	10/26/2010	771	8,980	1,330	8,140	66,800	--	--	--	--	--
	5/25/2011	279	13,300	2,600	14,400	57,000	--	--	--	--	--
	11/4/2011	170	27,500	6,110	31,250	293,000	--	--	--	--	--
	1/10/2012	207	13,300	3,110	16,100	80,700	--	--	--	--	--
	10/19/2012	Insufficient water for sampling					--	--	--	--	--
	4/9/2013	125	944	181	993	298,000	--	--	--	--	--
	7/18/2013	130	11,000	2,500	16,000	450,000	--	--	--	--	--
	1/10/2014	86	2,080	2,270	13,500	73,300	--	--	--	--	--
	8/20/2014	81	4,050	2,620	13,420	89,800	--	--	--	--	--
2/19/2015	7.2	187	<1.0	1,780	8,300	--	--	--	--	--	
6/15/2015	36.6	2,320	282	10,400	46,800	--	--	--	--	--	
MW-2	9/9/2005	10,800	7,500	5,400	21,000	270,000	--	--	--	--	--
	1/19/2006	13,700	22,000	4,250	31,200	290,000	--	--	--	--	--
	3/3/2006	5,880	8,370	1,820	11,500	110,000	--	--	--	--	--
	11/8/2006	34,500	80,600	16,100	100,000	273,000	<1.0	<1.0	<0.01	15,500	<5.0
	5/10/2007	9,870	30,300	4,960	46,500	277,000	--	--	--	--	--
	2/10/2009	930	7,670	400	12,500	18,670	--	--	--	--	--
	3/24/2010	9,130	16,620	1,990	23,500	174,000	--	--	--	--	--
	7/7/2010	2,370	3,310	255	5,490	37,000	--	--	--	--	--
	10/26/2010	1,540	2,060	275	3,830	32,600	--	--	--	--	--
	5/25/2011	210	252	6.7	532	2,300	--	--	--	--	--
	11/4/2011	15,900	22,600	523	14,600	202,000	--	--	--	--	--
	1/10/2012	1.5	2.0	<1.0	70.7	1,750	--	--	--	--	--
	10/19/2012	2,140	2,170	267	2,710	35,600	--	--	--	--	--
	4/9/2013	7,220	14,500	737	5,260	282,000	--	--	--	--	--
	7/18/2013	15,000	32,000	2,200	21,000	570,000	--	--	--	--	--
	1/10/2014	4,530	14,900	2,630	20,900	180,000	--	--	--	--	--
	8/20/2014	3,760	6,900	2,000	12,100	137,000	--	--	--	--	--
2/19/2015	1.5	20.9	<1.0	233	3,500	--	--	--	--	--	
6/15/2015	7,530.0	22,500.0	2,720	20,900	161,000	--	--	--	--	--	

Table 2 - Summary of Groundwater Analytical Results
 Gull Harbor Mercantile
 Olympia, WA

Sample Number	Date Sampled	Select Volatile Organic Compounds (ug/L)				Gasoline TPH (ug/L)	Table 830-1 Constituents (ug/L)				
		Benzene	Toluene	Ethylbenzene	Total Xylenes		Total Lead	1,2-Dichloroethane (EDC)	1,2-Dibromoethane (EDB)	Total Naphthalenes	Methyl tertiary-butyl ether (MTBE)
MW-3	9/9/2005	3,000	4,600	1,250	5,350	29,100	--	--	--	--	--
	1/19/2006	2,600	17,700	4,250	23,600	185,000	--	--	--	--	--
	3/3/2006	6,390	9,100	2,730	12,400	80,600	--	--	--	--	--
	11/8/2006	32,400	128,000	35,600	220,000	215,000	<1.0	<1.0	<0.01	24,600	<5.0
	5/10/2007	26,900	43,800	7,450	39,800	325,000	--	--	--	--	--
	2/10/2009	5,000	27,500	2,083	14,500	83,130	--	--	--	--	--
	3/24/2010	6,880	31,100	3,630	20,400	203,000	--	--	--	--	--
	7/7/2010	3,620	12,700	1,710	8,540	103,000	--	--	--	--	--
	10/26/2010	5,250	16,800	1,750	9,120	103,000	--	--	--	--	--
	5/25/2011	2,350	17,400	1,640	10,400	86,000	--	--	--	--	--
	11/4/2011	9,250	47,100	3,270	20,900	271,000	--	--	--	--	--
	1/10/2012	846	8,230	115	6,350	34,200	--	--	--	--	--
	10/19/2012	Free product					--	--	--	--	--
	4/9/2013	973	14,300	694	6,140	248,000	--	--	--	--	--
	7/18/2013	6,700	52,000	1,700	19,000	680,000	--	--	--	--	--
	1/10/2014	5,380	30,700	3,540	21,100	251,000	--	--	--	--	--
	8/20/2014	7,690	50,400	3,010	20,100	260,000	--	--	--	--	--
	2/19/2015	192	793	60.6	621	6,200	--	--	--	--	--
6/15/2015	10,600	44,700	2,560.0	21,000	211,000	--	--	--	--	--	
MW-4	11/8/2006	234	1,160	210	694	2,610	<1.0	<1.0	<0.01	5.5	<5.0
	5/10/2007	23,300	60,500	18,800	85,200	692,000	--	--	--	--	--
	2/10/2009	2	150	4.3	290	1,120	--	--	--	--	--
	3/24/2010	4,320	12,300	1,370	9,850	97,500	--	--	--	--	--
	7/7/2010	24.3	187	102	844	3,700	--	--	--	--	--
	10/26/2010	322	7,450	2,320	8,660	31,300	--	--	--	--	--
	5/25/2011	<1.0	<2.0	<1.0	<3.0	<100	--	--	--	--	--
	11/4/2011	50.4	6,230	1,760	10,300	77,500	--	--	--	--	--
	1/10/2012	<1.0	6.4	<1.0	73	300	--	--	--	--	--
	10/19/2012	120	5,985	1,407	6,040	44,400	--	--	--	--	--
	4/9/2013	7.45	17.6	1.39	10.4	279	--	--	--	--	--
	7/18/2013	17	<2.0	204	2,040	28,300	--	--	--	--	--
	1/10/2014	27	2,670.0	1,540	5,240	44,000	--	--	--	--	--
	8/20/2014	52.9	4,710.0	2,200	7,580	64,600	--	--	--	--	--
	2/19/2015	2.4	11.4	<1.0	15.2	930	--	--	--	--	--
6/15/2015	4.8	1,130	497	4,660	27,500	--	--	--	--	--	

Table 2 - Summary of Groundwater Analytical Results
Gull Harbor Mercantile
Olympia, WA

Sample Number	Date Sampled	Select Volatile Organic Compounds (ug/L)				Gasoline TPH (ug/L)	Table 830-1 Constituents (ug/L)				
		Benzene	Toluene	Ethylbenzene	Total Xylenes		Total Lead	1,2-Dichloroethane (EDC)	1,2-Dibromoethane (EDB)	Total Naphthalenes	Methyl tertiary-butyl ether (MTBE)
MW-5	11/8/2006	15,900	42,700	11,600	78,200	186,000	<1.0	<1.0	<0.01	13,700	<5.0
	5/10/2007	40,300	43,600	7,870	36,800	339,000	--	--	--	--	--
	2/10/2009	--	--	--	--	--	--	--	--	--	--
	3/24/2010	28,500	63,400	6,550	48,300	474,000	--	--	--	--	--
	7/7/2010	4,210	6,200	1,540	7,020	54,800	--	--	--	--	--
	10/26/2010	4,260	8,040	1,170	5,300	55,000	--	--	--	--	--
	5/25/2011	23,700	43,100	4,060	21,500	186,000	--	--	--	--	--
	11/4/2011	21,000	44,300	3,610	21,300	140,000	--	--	--	--	--
	1/10/2012	23,700	47,900	4,330	24,200	154,000	--	--	--	--	--
	10/19/2012	Free product				--	--	--	--	--	--
	4/9/2013	6,720	26,600	1,760	9,490	415,000	--	--	--	--	--
	7/18/2013	14,000	45,000	3,000	18,000 E	620,000	--	--	--	--	--
	1/10/2014	9,740	26,600	3,650	17,500	245,000	--	--	--	--	--
	8/20/2014	1,330	52,000	3,940	24,800	389,000	--	--	--	--	--
	2/19/2015	12,500	50,200	6,580	34,700	275,000	--	--	--	--	--
6/15/2015	25,800	10,500	1,070	5,970	91,400	--	--	--	--	--	
MW-6	11/8/2006	304	856	119	722	1,980	<1.0	<1.0	<0.01	11.3	<5.0
	5/10/2007	180	193	<1.0	169	1,760	--	--	--	--	--
	2/10/2009	2.3	<2.0	<1.0	<3.0	<100	--	--	--	--	--
	3/24/2010	<1.0	<2.0	<1.0	<3.0	<100	--	--	--	--	--
	7/7/2010	<1.0	<2.0	<1.0	<3.0	<100	--	--	--	--	--
	10/26/2010	<1.0	<2.0	<1.0	<3.0	<100	--	--	--	--	--
	5/25/2011	11.1	7.5	2	11.9	820	--	--	--	--	--
	1/10/2012	--	--	--	--	--	--	--	--	--	--
	1/10/2014	188	70	47	221	3,470	--	--	--	--	--
	8/20/2014	<1.0	40	13	57	430	--	--	--	--	--
	2/19/2015	<1.0	<2.0	<1.0	3.9	<100	--	--	--	--	--
	6/15/2015	<1.0	<2.0	<1.0	<2.0	<100	--	--	--	--	--
MW-7*	11/8/2006	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<1.0	<0.01	<5.0	<5.0
	5/10/2007	10.2	81.5	16.3	110	600	--	--	--	--	--
	2/10/2009	<1.0	<2.0	<1.0	<3.0	<100	--	--	--	--	--
	3/24/2010	<1.0	<2.0	<1.0	<3.0	<100	--	--	--	--	--
	7/7/2010	<1.0	<2.0	<1.0	<3.0	<100	--	--	--	--	--
	10/26/2010	<1.0	<2.0	<1.0	<3.0	<100	--	--	--	--	--
	5/25/2011	<1.0	<2.0	<1.0	<3.0	<100	--	--	--	--	--

Table 2 - Summary of Groundwater Analytical Results

Gull Harbor Mercantile
Olympia, WA

Sample Number	Date Sampled	Select Volatile Organic Compounds (ug/L)				Gasoline TPH (ug/L)	Table 830-1 Constituents (ug/L)				
		Benzene	Toluene	Ethylbenzene	Total Xylenes		Total Lead	1,2-Dichloroethane (EDC)	1,2-Dibromoethane (EDB)	Total Naphthalenes	Methyl tertiary-butyl ether (MTBE)
MW-8*	11/8/2006	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<1.0	<0.01	<5.0	<5.0
	5/10/2007	20.1	137	23.9	155	890	--	--	--	--	--
	2/10/2009	<1.0	<2.0	<1.0	<3.0	<100	--	--	--	--	--
	3/24/2010	<1.0	<2.0	<1.0	<3.0	<100	--	--	--	--	--
	7/7/2010	<1.0	<2.0	<1.0	<3.0	<100	--	--	--	--	--
	10/26/2010	<1.0	<2.0	<1.0	<3.0	<100	--	--	--	--	--
	5/25/2011	<1.0	<2.0	<1.0	<3.0	<100	--	--	--	--	--
MW-9	4/2/2015	<1.0	<1.0	1.5	<3.0	<100	<2.0	<1.0	<0.01	<1.0	<1.0
	6/15/2015	<1.0	<2.0	<1.0	<2.0	<100	--	--	--	--	--
MW-10	4/2/2015	16,000	19,000	2,600	13,000	140,000	9	<1.0	8.20	1,200	<1.0
	6/15/2015	36,900	52,300	3,380	23,700	221,000	--	--	--	--	--
MW-11	4/2/2015	2,100	7,600	1,700	9,800	81,000	<1.0	<1.0	0.0518	150	<1.0
	6/15/2015	9,800	22,300	1,190	15,900	142,000	--	--	--	--	--
MW-12	4/2/2015	11	43	40	84	800	3	<1.0	<0.01	17	<1.0
	6/15/2015	6.5	6.5	114	197	2,940	--	--	--	--	--
PQL		1.0	1.0 or 2.0	1.0	1.0 or 2.0 or 3.0	100	1.0	1.0	0.01	5.0	5.0
Ecology MTCA Method A Cleanup Levels		5	1,000	700	1,000	800 **	15	5	0.01	160	20

Notes:

ug/L= micrograms per liter

-- Not analyzed for constituent

< Not detected at the listed laboratory detection limits

PQL = Practical Quantification Limit (laboratory detection limit)

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

* Ceased groundwater monitoring/sampling activities at this well

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

E = Reported result is an estimate because it exceeds the calibration range

APPENDIX A

LABORATORY DATASHEETS



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

June 24, 2015

Becky Dilba
Associated Environmental Group, LLC
605 11th Avenue SE, Suite 201
Olympia, WA 98501

Dear Ms. Dilba:

Please find enclosed the analytical data report for the Gull Harbor Mercantile Project located in Olympia, 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.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

GULL HARBOR MERCANTILE PROJECT

AEG, LLC

Olympia, Washington

Libby Project # L150615-1

Client Project # 05-218

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

Sample Number	Date Analyzed	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	Gasoline (µg/l)	Surrogate Recovery (%)
Method Blank	6/16/15	nd	nd	nd	nd	nd	99
Method Blank	6/19/15	nd	nd	nd	nd	nd	92
LCS	6/16/15	89%	104%				109
MW-1	6/19/15	36.6	2320	282	10400	46800	89
MW-2	6/18/15	7530	22500	2720	20900	161000	100
MW-3	6/19/15	10600	44700	2560	21000	211000	90
MW-4	6/19/15	4.8	1130	497	4660	27500	90
MW-5	6/16/15	25800	10500	1070	5970	91400	104
MW-6	6/16/15	nd	nd	nd	nd	nd	93
MW-9	6/18/15	nd	nd	nd	nd	nd	99
MW-10	6/19/15	36900	52300	3380	23700	221000	92
MW-11	6/19/15	9800	22300	1190	15700	135000	94
MW-11 Dup	6/19/15	9560	22000	1130	15900	142000	95
MW-12	6/16/15	6.5	6.5	114	197	2940	101
MW-6 MS	6/16/15	106%	125%				126
MW-6 MSD	6/16/15	96%	134%				120
Practical Quantitation Limit		1	2	1	2	100	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

