



ASSOCIATED
ENVIRONMENTAL
GROUP, LLC

RECEIVED

AUG 05 2010

DEPARTMENT OF ECOLOGY - CENTRAL REGIONAL OFFICE

August 2, 2010

Mr. James Devere
P.O. Box 336
Cle Elum, WA 98922

RE: Quarterly Groundwater Events: November 2009 – July 2010
Devere & Sons Distributing Mini Mart
1000 First Street E.
Cle Elum, WA

Dear Mr. Devere:

Associated Environmental Group, L.L.C. (AEG) has prepared this letter report to summarize the results of the *Quarterly Groundwater Monitoring/Sampling Events – November 2009 through July 2010* conducted for the Devere & Sons Distributing Mini Mart property, located at 1000 First Street E in Cle Elum, WA (the Site).

The Washington State Department of Ecology (Ecology) stipulated in the Fall 2009 that additional groundwater monitoring and sampling activities be conducted at monitoring wells MW-1, MW-2b, and MW-6 for four consecutive quarterly events. AEG conducted these events from November 2009 through July 2010. Groundwater samples were analyzed for the following constituents of concern: 1) gasoline range total petroleum hydrocarbons (TPH) via Northwest Method NWTPH-Gx; 2) gasoline associated volatile organic compounds (VOC), specifically benzene, toluene, ethylbenzene, and total xylenes (BTEX) via EPA Method 8021B; and 3) diesel through mineral oil range TPH via Northwest Method NWTPH-D/Dx Extended.

DISCUSSION

The four consecutive quarterly groundwater events were conducted at the Site on the following dates: 1) November 11, 2009; 2) January 5, 2010; 3) April 12, 2010; and 4) July 13, 2010. These sampling events represent the final environmental investigation task completed for the Site prior to requesting Ecology for a *No Further Action* determination.

AEG completed the following activities during each groundwater monitoring/sampling event:

- Obtained depth-to-water measurement at MW-1, MW-2b and MW-6.
- Conducted limited well development/purge via peristaltic pump with dedicated tubing.
- Collected a representative groundwater sample from MW-1, MW-2b and MW-6 in laboratory provided containers. The containers were labeled and placed in a portable chilled ice chest and transported to Libby Environmental Chemistry Laboratory following standard chain-of-custody procedures.

- The groundwater samples were submitted for the following laboratory analyses: 1) gasoline range TPH via Northwest Method NWTPH-Gx; 2) BTEX via EPA Method 8021 B; and 3) diesel range TPH via Northwest Method NWTPH-D/Dx Extended.
- Compared the analytical results to Ecology Model Toxics Control Act (MTCA) Method A groundwater cleanup levels for the above constituents.

GROUNDWATER ANALYTICAL RESULTS

Table 1, *Summary of Quarterly Groundwater Analytical Results*, presents the laboratory results for the four additional sampling events from November 2009 through July 2010 at monitoring wells MW-1, MW-2b, and MW-6 along with previous groundwater analytical results for the Site. The laboratory analytical results are included in Attachment A, *Groundwater Analytical Laboratory Results*. Table 2, *Summary of Quarterly Groundwater Elevations*, and Table 3, *Summary of Quarterly Groundwater Natural Attenuation Parameters*, are also included in Attachment A.

DISCUSSION

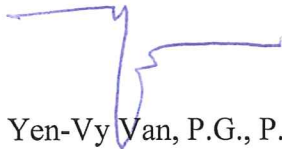
The findings and conclusions derived during the Quarterly Groundwater Events: November 2009 through July 2010 are as follows:

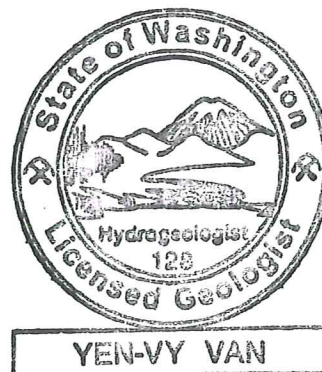
- No detectable concentrations of all constituents of concern were reported for the additional consecutive quarterly groundwater events conducted from November 2009 through July 2010.

CLOSING

AEG has successfully completed four consecutive quarterly groundwater events at MW-1, MW-2b, and MW-6 and have shown that there is no petroleum hydrocarbons groundwater contamination at the Devere and Sons Distributing Mini Mart property. AEG recommends petitioning Ecology for a *No Further Action* determination for the former Chevron Service Station based on the findings presented above.

Sincerely,
Associated Environmental Group, L.L.C.


Yen-Vy Van, P.G., P. H.G.
Principal Hydrogeologist



cc: Mr. Parminder Gillon
Ms. Valerie Bound/Mr. Norm Peck – Ecology CRO Toxics Cleanup Program

ENCLOSURES:

Figure 1 – *Site Plan*

Table 1 – *Summary of Quarterly Groundwater Analytical Results*

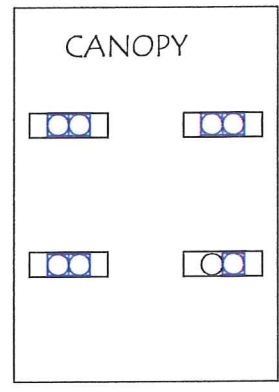
Table 2 – *Summary of Quarterly Groundwater Elevations*

Table 3 – *Summary of Quarterly Groundwater Natural Attenuation Parameters*

Attachment A – *Groundwater Analytical Laboratory Results*

1st STREET

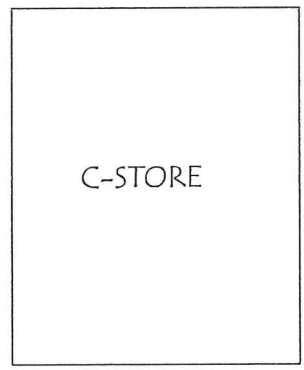
SEWER MANHOLES



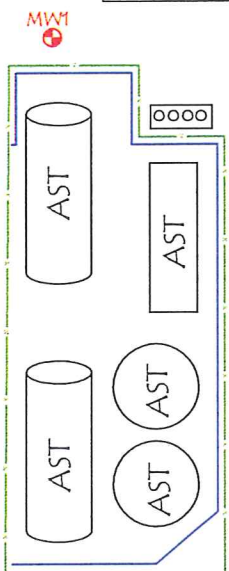
MW2b

MW3

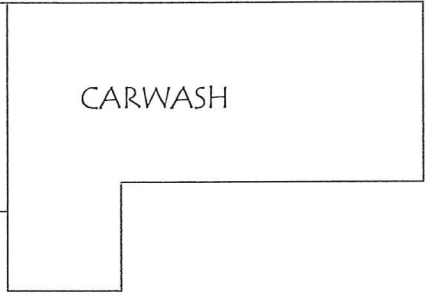
Owens Rd



MW4



MW-5b



MW-6

LEGEND

- Approximate GW Flow Direction
- ⊕ Groundwater monitoring well locations

Notes: (a) The locations of all features shown are approximate.
 (b) This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document.

DRAWING SCALE: 1" = 16'

Reference: Drawing created from sketch provided by AEGs' personnel.

ASSOCIATED ENVIRONMENTAL GROUP, LLC
 Environmental Consulting and Contracting
 1728 State Avenue NE, Suite 101
 Olympia, WA 98506
 (360) 352-9835 Fax (360) 352-8164

FIGURE 1
SITE PLAN

DEVERE & SONS 1000 E. 1ST STREET CLE ELUM, WA	
Project:	Date:
06-192	8/2/10

Table 1 Summary of Quarterly Groundwater Analytical Results
Devere & Sons
Cle Elum, WA

Well Number ¹	Date Collected	BTEX ² (µg/L)				Gasoline TPH ³ (µg/L)	Table 830-1 Constituents ⁴ (µg/L)				Diesel Extended TPH ⁵ (µg/L)		
		Benzene	Toluene	Ethylbenzene	Xylenes		1,2-Dichloroethane (EDC)	1,2-Dibromoethane (EDB)	Total Naphthalenes	MTBE	Diesel	Heavy Oil	Mineral Oil
MW-1 ⁷	10/20/06	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	2/13/07	**	**	**	**	**	**	**	**	**	**	**	
	5/15/07	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	8/14/07	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	6/23/08	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
MW-2b ⁷	11/11/09	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	1/5/10	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	4/12/10	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	7/13/10	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	10/20/06	<1.0	1.3	<1.0	1.5	<100	<0.01	<5.0	<5.0	<400	<400	<400	
MW-3*	2/13/07	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	5/15/07	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	8/14/07	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	11/11/09	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	1/5/10	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
MW-4*	4/12/10	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	7/13/10	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	10/20/06	<1.0	2.1	<1.0	2.6	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	2/13/07	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	5/15/07	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
MW-5b*	8/14/07	11	3.0	2.8	4.8	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	10/20/06	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	2/13/07	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	5/15/07	50.3	6.7	9.2	9.6	897	<0.01	<5.0	<5.0	<400	<400	<400	
	8/14/07	86.2	22.0	11.4	10.3	822	<0.01	<5.0	<5.0	<400	<400	<400	
MW-6 ⁷	11/25/07	39.3	13.9	1.1	16.6	1,640	<0.01	<5.0	<5.0	<400	<400	<400	
	6/23/08	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	9/29/08	1.4	<1.0	<1.0	<1.0	200	<0.01	<5.0	<5.0	<400	<400	<400	
	1/27/09	2.2	<1.0	1.0	3.3	232	<0.01	<5.0	<5.0	<400	<400	<400	
	4/20/09	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
MW-7	10/20/06	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	2/13/07	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	5/15/07	2.9	<1.0	<1.0	<1.0	154	<0.01	<5.0	<5.0	<400	<400	<400	
	8/14/07	1.3	<1.0	<1.0	<1.0	154	<0.01	<5.0	<5.0	<400	<400	<400	
	11/25/07	<1.0	<1.0	<1.0	<1.0	110	<0.01	<5.0	<5.0	<400	<400	<400	
Ecology MTCA Method A Cleanup Levels	10/20/06	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	2/13/07	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	5/15/07	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	8/14/07	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	11/11/09	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
Ecology MTCA Method A Cleanup Levels	1/5/10	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	4/12/10	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	7/13/10	<1.0	<1.0	<1.0	<1.0	<100	<0.01	<5.0	<5.0	<400	<400	<400	
	PQL	1.0	1.0	1.0	1.0	100	0.01	5.0	160	5.0	400	400	
	Ecology MTCA Method A Cleanup Levels	5	1,000	700	1,000	800 ⁶	0.01	0.01	5.0	20	500	500	

Notes:
¹ Approximate monitoring well locations are shown in Figure 1
² Analyzed by EPA Method 821B
³ Analyzed by Northwest Method NWTPH-Gx
⁴ Analyzed by EPA Method 8260B
⁵ Analyzed by Northwest Method NWTPH-Dx/Dx extended
⁶ Cleanup level with presence of benzene
⁷ Selected monitoring wells required by Ecology for additional sampling for 4 consecutive quarters

TPH = total petroleum hydrocarbons
µg/L = micrograms per liter
** = Indicates not tested for analyte
< = not detected above laboratory detection limits.
PQL = Practical Quantitation Limit
Bold indicates the detected concentration exceeds Ecology MTCA Method A cleanup level
* = censored groundwater monitoring/sampling activities at this well
** = Not Sampled

**Table 2 Summary of Quarterly Groundwater Elevations
Devere & Sons
Cle Elum, Washington**

Well Number/ TOC Elevation (feet)	Date of Measurement	DTW (feet)	DT LPH (feet)	LPH (feet)	GW Elevation (feet)	Change in GW Elevation (feet)
MW-1 99.55	10/18/06	8.93	--	--	90.62	
	02/13/07	--	--	--	--	
	05/15/07	6.93	--	--	92.62	--
	08/14/07	6.66	--	--	92.89	0.27
	06/19/08	7.78	--	--	91.77	-1.12
	11/11/09	8.39	--	--	91.16	-0.61
	01/05/10	8.71	--	--	90.84	-0.32
	04/12/10	8.08	--	--	91.47	0.63
	07/13/10	7.16	--	--	92.39	0.92
MW-2b 98.73	10/18/06	8.10	--	--	90.63	
	02/13/07	6.33	--	--	92.40	1.77
	05/15/07	6.14	--	--	92.59	0.19
	08/14/07	5.87	--	--	92.86	0.27
	11/25/07	7.73	--	--	91.00	-1.86
	06/19/08	6.95	--	--	91.78	0.78
	01/27/09	6.52	--	--	92.21	0.43
	11/11/09	7.54	--	--	91.19	-1.02
	01/05/10	7.51	--	--	91.22	0.03
	04/12/10	7.21	--	--	91.52	0.30
	07/13/10	6.33	--	--	92.40	0.88
MW-3* 99.10	10/18/06	8.57	--	--	90.53	
	02/13/07	6.74	--	--	92.36	1.83
	05/15/07	6.56	--	--	92.54	0.18
	08/14/07	6.34	--	--	92.76	0.22
	06/19/08	7.38	--	--	91.72	-1.04
	11/11/09	7.99	--	--	91.11	-0.61
MW-4* 99.81	10/18/06	9.20	--	--	90.61	
	02/13/07	7.49	--	--	92.32	1.71
	05/15/07	7.23	--	--	92.58	0.26
	08/14/07	6.98	--	--	92.83	0.25
	11/25/07	8.84	--	--	90.97	-1.86
	06/19/08	8.07	--	--	91.74	0.77
	09/26/08	8.70	--	--	91.11	-0.63
	01/27/09	6.52	--	--	93.29	2.18
	04/20/09	7.59	--	--	92.22	-1.07
	11/11/09	8.53	--	--	91.28	-0.94
MW-5b* 99.20	10/18/06	8.69	--	--	90.51	
	02/13/07	6.93	--	--	92.27	1.76
	05/15/07	6.74	--	--	92.46	0.19
	08/14/07	6.50	--	--	92.70	0.24
	11/25/07	8.34	--	--	90.86	-1.84
	06/19/08	7.53	--	--	91.67	0.81
	11/11/09	8.14	--	--	91.06	-0.61
MW-6 99.53	10/18/06	9.00	--	--	90.53	
	02/13/07	7.27	--	--	92.26	1.73
	05/15/07	6.98	--	--	92.55	0.29
	08/14/07	6.72	--	--	92.81	0.26
	11/25/07	8.62	--	--	90.91	-1.90
	06/19/08	7.83	--	--	91.70	0.79
	11/11/09	8.44	--	--	91.09	-0.61
	01/05/10	9.45	--	--	90.08	-1.01
	04/12/10	8.14	--	--	91.39	1.31
		07/13/10	7.17	--	--	92.36

TOC = Top of casing elevation relative to assigned benchmark.
DTW = Depth to water below top of casing.
DT LPH = Depth to liquid phase hydrocarbons (i.e., free product)
LPH = Liquid phase hydrocarbons thickness.
GW Elevation = Groundwater Elevation
-- = Not measured, not available, or not applicable
* = ceased groundwater monitoring/sampling activities at this well

Table 3 Summary of Quarterly Groundwater Natural Attenuation Parameters
Devere & Sons
Cle Elum, WA

Well Number	Date Analyzed	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	Salinity (%)	TDS
MW-1	10/18/2006	6.41	0.275	10	--	14.50	0.01	--
	2/13/2007	--	--	--	--	--	--	--
	5/15/2007	6.45	0.335	35.00	0.85	11.00	0.01	--
	8/14/2007	5.27	0.264	132.00	0.02	16.10	0.01	--
	11/25/2007	--	--	--	--	--	--	--
	6/19/2008	6.88	0.392	9.00	0.53	11.50	0.01	--
	11/11/2009	6.00	0.339	--	0.17	13.39	0.16	0.220
	1/5/2010	8.38	0.495	--	0.90	9.80	0.24	0.321
	4/12/2010	6.52	0.321	--	0.77	8.75	0.15	0.209
	7/13/2010	6.34	0.424	--	0.49	12.76	0.20	0.275
MW-2b	10/18/2006	6.41	0.275	10	--	14.50	0.01	--
	2/13/2007	5.82	0.680	82	--	7.10	0.02	--
	5/15/2007	6.28	0.471	80	3.25	11.60	0.01	--
	8/14/2007	5.32	0.290	216	-0.23	19.40	0.01	--
	11/11/2009	6.11	0.536	--	0.21	14.02	0.26	0.350
	1/5/2010	9.67	0.302	--	6.8	3.63	0.14	0.196
	4/12/2010	6.08	1.224	--	0.34	8.91	0.61	0.795
	7/13/2010	6.34	0.692	--	0.48	14.22	0.34	0.450
	10/18/2006	7.58	0.247	96	--	15.50	0.00	--
	2/13/2007	6.50	0.345	30	--	8.00	0.01	--
MW-3*	5/15/2007	6.32	0.315	26	3.44	10.60	0.01	--
	8/14/2007	5.47	0.289	147	-0.11	15.90	0.01	--
	11/11/2009	6.66	0.336	--	2.19	14.09	0.16	0.218
	10/18/2006	6.85	0.304	628	--	14.60	0.00	--
	2/13/2007	6.07	1.800	29	--	6.60	0.08	--
	5/15/2007	6.57	0.367	108	1.14	11.60	0.01	--
	8/14/2007	5.45	0.280	177	-0.02	16.70	0.01	--
	11/25/2007	5.85	0.383	76	0.13	12.60	0.01	--
	6/19/2008	6.74	0.434	12	0	12.30	0.01	--
	9/26/2008	6.18	0.416	10	-1.43	15.70	0.00	--
MW-5b*	1/27/2009	6.79	0.598	--	0.47	7.50	0.09	--
	4/20/2009	--	--	--	--	--	--	--
	11/11/2009	6.49	0.408	--	0.13	14.71	0.20	0.265
	10/18/2006	9.93	0.278	10	--	16.70	0.01	--
	2/13/2007	6.31	0.534	32	--	7.60	0.02	--
	5/15/2007	6.57	0.358	18	0.76	11.80	0.01	--
	8/14/2007	5.77	0.302	176	-0.29	17.60	0.01	--
	11/25/2007	5.93	0.324	21	0.14	11.90	0.01	--
	11/11/2009	6.56	0.351	--	0.11	13.84	0.17	0.228
	10/18/2006	1.00	0.241	999	--	16.60	0.01	--
MW-6	2/13/2007	6.68	0.347	7	--	7.50	0.01	--
	5/15/2007	6.52	3.300	16	0.64	11.10	0.01	--
	8/14/2007	5.66	0.247	142	-0.18	16.70	0.00	--
	11/11/2009	6.11	0.327	--	0.38	14.53	0.16	0.213
	1/5/2010	8.39	0.348	--	2.24	10.04	0.17	0.226
	4/12/2010	6.58	0.339	--	1.49	8.88	0.16	0.220
	7/13/2010	6.62	0.370	--	1.57	13.45	0.18	0.241

Notes:

-- = Not measured, or not available

* = ceased groundwater monitoring/sampling activities at this well

ATTACHMENT A:

Groundwater Analytical Lab Results



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

July 21, 2010

Michael Chun
Associated Environmental Group, LLC
1018 Capitol Way South, Suite 201
Olympia, WA 98501



Dear Mr. Chun:

Please find enclosed the analytical data report for the Devere & Sons Project located in Cle Elum, Washington. Water samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B and Diesel & Oil by NWTPH-Dx/Dx Extended on July 19 & 20, 2010.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is enclosed.

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
President
Libby Environmental, Inc.

LIBBY ENVIRONMENTAL CHEMISTRY LABORATORY

DEVERE AND SONS PROJECT
Cle Elum, Washington
AEG
Client Project # 06-192
Libby Project No. L100714-1

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Water

Sample Number	Date Analyzed	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	Gasoline (ug/l)	Surrogate Recovery (%)
Method Blank	7/20/10	nd	nd	nd	nd	nd	92
LCS	7/20/10	77%	100%				105
MW-1	7/20/10	nd	nd	nd	nd	nd	97
MW-2B	7/20/10	nd	nd	nd	nd	nd	116
MW-6	7/20/10	nd	nd	nd	nd	nd	108
MW-6 Dup	7/20/10	nd	nd	nd	nd	nd	
MW-6 MS	7/20/10	103%	103%				109
Practical Quantitation Limit		1	2	1	3	100	

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

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

LIBBY ENVIRONMENTAL CHEMISTRY LABORATORY

DEVERE AND SONS PROJECT

Cle Elum, Washington

AEG

Client Project # 06-192

Libby Project No. L100714-1

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (ug/l)	Mineral Oil (ug/l)	Oil (ug/l)
Method Blank	7/19/10	108	nd	nd	nd
MW-1	7/19/10	108	nd	nd	nd
MW-1 Dup	7/19/10	105	nd	nd	nd
MW-2B	7/19/10	105	nd	nd	nd
MW-6	7/19/10	115	nd	nd	nd
Practical Quantitation Limit			200	400	400

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

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Jamie Hart

Libby Environmental, Inc.

4139 Libby Road NE
 Olympia, WA 98506
 Ph: 360-352-2110
 Fax: 360-352-4154

Chain of Custody Record

Date: 7-14-10 Page: 1 of 1

Client: AE6
 Address: 6018 Capital Way S, Olympia WA
 Phone: 360-352-9835 Fax:
 Client Project #: 06-192

Project Manager: W. Chun
 Project Name: Devere & Sons
 Location: 1000 E 1st St, Cle Elum WA
 Collector: B. Stone Date of Collection: 7-13-10

Sample Number	Depth	Time	Sample Type	Container Type	VOA 802/B VOA 802/B BTEX Only	SEM VOL 8270	NMTPH-HCID	NMTPH-GX	NMTPH-DX	NMTPH-DX EX.	PAH 8270	PCB's 8082	MTCAs Metals	Field Note# Containers
1		14:20	Water	VOA 6000	X		X		X					
2		14:50												
3		13:45												
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														

Relinquished by: _____ Date / Time: 7-14/11:40

Received by: Jamie T. Effect Date / Time: 7/14/10 11:40am

Remarks: S70

Sample Receipt:

Good Condition? _____

Cold? _____

Seals Intact? _____

Total Number of Containers _____

TAT 24HR 48HR 5-Day



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

April 20, 2010

Michael Chun
Associated Environmental Group, LLC
1018 Capitol Way South, Suite 201
Olympia, WA 98501



Dear Mr. Chun;

Please find enclosed the analytical data report for the Devere and Sons Project located in Cle Elum, Washington. Water samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B on April 15, 2010 and Diesel & Oil by NWTPH-Dx/Dx Extended on April 16, 2010.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is enclosed.

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
President
Libby Environmental, Inc.

LIBBY ENVIRONMENTAL CHEMISTRY LABORATORY

DEVERE AND SONS PROJECT

Cle Elum, WA

AEG

Client Project #06-192

Libby Project No.L100415-3

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Water

Sample Number	Date Analyzed	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	Gasoline (ug/l)	Surrogate Recovery (%)
Method Blank	4/15/10	nd	nd	nd	nd	nd	109
LCS	4/15/10	96%	107%				106
MW1-W	4/15/10	nd	nd	nd	nd	nd	107
MW2B-W	4/15/10	nd	nd	nd	nd	nd	108
MW6-W	4/15/10	nd	nd	nd	nd	nd	103
MW6-W Dup	4/15/10	nd	nd	nd	nd	nd	105
MS MW1-W	4/15/10	106%	112%				100
Practical Quantitation Limit		1	2	1	3	100	

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

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Deanna M. Donovan

LIBBY ENVIRONMENTAL CHEMISTRY LABORATORY

DEVERE & SONS PROJECT
Cle Elum, Washington
AEG
Client Project #06-192
Libby Project No.L100415-31

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (ug/l)	Mineral Oil (ug/l)	Oil (ug/l)
Method Blank	4/16/10	101	nd	nd	nd
MW1-W	4/16/10	101	nd	nd	nd
MW2B-W	4/16/10	103	nd	nd	nd
MW6-W	4/16/10	99	nd	nd	nd
MW6-W Dup.	4/16/10	98	nd	nd	nd
Practical Quantitation Limit			200	400	400

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

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Athanasius Shaw

Libby Environmental, Inc.

4139 Libby Road NE
 Olympia, WA 98506
 Ph: 360-352-2110
 Fax: 360-352-4154

Chain of Custody Record

Date: 4/12/10 Page: 1 of 1

Client: AEA Project Manager: M CHUNG
 Address: 1728 STATE / 1018 CAPITOL WAY S, OLYMPIA Project Name: DeVore Sours
 Phone: 360-352-5183 Fax: 360-352-8164 Location: 1000 E 1st St. Clatsop WA
 Client Project #: 06-192 Collector: LR/YN Date of Collection: 4/12/10

Sample Number	Depth	Time	Sample Type	Container Type	VOA 8021B	VOA 8021B BTEX Only	SEM VOL 8270	NWTFH-CID	NWTFH-GX	NWTFH-DX	NWTFH-DX EX.	PAH 8270	PCBs 8082	MTCA 5 Metals	Field Note# Containers	
1 MW1-W	-	1626	H ₂ O	VOA number	X		X	X	X						3 VOA, 2 BTEX and metals	
2 MW2B-W	-	1721		↓	X		X	X	X						↓	
3 MW6-W	-	1740		↓	X		X	X	X							
4																
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18																
Relinquished by: <u>[Signature]</u>					Date / Time	Received by: <u>[Signature]</u>					Date / Time	Remarks:				
Relinquished by: <u>[Signature]</u>					Date / Time	Received by: <u>[Signature]</u>					Date / Time	Sample Receipt:				
Relinquished by: <u>[Signature]</u>					Date / Time	Received by: <u>[Signature]</u>					Date / Time	Good Condition?				
					Date / Time						Date / Time	Cold?				
					Date / Time						Date / Time	Seals Intact?				
					Date / Time						Date / Time	Total Number of Containers				
					Date / Time						Date / Time	TAT 24HR 48HR 5-Day				

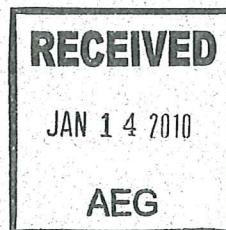


Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

January 12, 2010

Michael Chun
Associated Environmental Group, LLC
1728 State Avenue NE
Suite 101
Olympia, WA 98506



Dear Mr. Chun:

Please find enclosed the analytical data report for the Devere & Sons Project located in Cle Elum, Washington. Water samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B on January 16, 2010 and Diesel by NWTPH-Dx on January 7, 2010.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is enclosed.

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
President
Libby Environmental, Inc.

LIBBY ENVIRONMENTAL CHEMISTRY LABORATORY

DEVERE & SONS PROJECT
CleElum, WA
AEG
Client Project #06-192
Libby Project No.L100105-6

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Water

Sample Number	Date Analyzed	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	Gasoline (ug/l)	Surrogate Recovery (%)
Method Blank	1/6/10	nd	nd	nd	nd	nd	104
LCS	1/6/10	103%	109%				105
MW1-W	1/6/10	nd	nd	nd	nd	nd	87
MW1-W Dup	1/6/10	nd	nd	nd	nd	nd	103
MW2b-W	1/6/10	nd	nd	nd	nd	nd	103
MW6-W	1/6/10	nd	nd	nd	nd	nd	110
MS MW2b-W	1/6/10	102%	101%				
Practical Quantitation Limit		1	2	1	3	100	

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

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Deanna M. Donovan

LIBBY ENVIRONMENTAL CHEMISTRY LABORATORY

DEVERE & SONS PROJECT
Cle Elum, Washington
AEG
Client Project #06-192
Libby Project No.L100105-6

Analyses of Diesel (NWTPH-Dx) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (ug/l)
Method Blank	1/7/2010	105	nd
MW1-W	1/7/2010	96	nd
MW2b-W	1/7/2010	104	nd
MW6-W	1/7/2010	106	nd
MW6-W Dup.	1/7/2010	105	nd
Practical Quantitation Limit			200

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

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Athanasius Shaw

Libby Environmental, Inc.

4139 Libby Road NE
 Olympia, WA 98506
 Ph: 360-352-2110
 Fax: 360-352-4154

Chain of Custody Record

Date: 1/5/10 Page: 1 of 1

Client: AEI
 Address: 1728 STATE AVE NE #101
 Phone: 360.357.9835 Fax: 360.357.8164
 Client Project # 06-192

Project Manager: M. C. HUN
 Project Name: DEVERE & SONS
 Location: CLE FLUM
 Collector: D. THOMAS Date of Collection: 1/5/10

Sample Number	Depth	Time	Sample Type	Container Type	VOA 8021B	VOA 8021B BTEX ONLY	SEM VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	NWTPH-DX EXT.	PAH 8270	PCBS 8082	MTCAs Metals	Field Note/# Containers
1		1312	WATER	Vol. Analy	X			X							
2		1340	WATER	L	X			X							
3		1340	WATER	L	X			X							
4															
5															
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17															
18															

Relinquished by: [Signature] Date / Time 1/5/10 1655

Received by: [Signature] Date / Time 1/5/10 4:55AM

Relinquished by: _____ Date / Time _____

Received by: _____ Date / Time _____

Relinquished by: _____ Date / Time _____

Received by: _____ Date / Time _____

Remarks: _____

Sample Receipt:

Good Condition?	
Cold?	
Seals Intact?	
Total Number of Containers	

TAT 24HR 48HR 5-Day

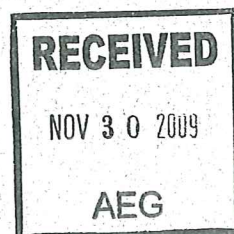


Libby Environmental, Inc.

4139 Libby Road N.E., Olympia, WA 98506-2518

November 23, 2009

Yen-Vy Van
Associated Environmental Group, LLC.
1728 State Avenue NE
Suite 101
Olympia, WA 98506



Dear Ms. Van:

Enclosed please find the analytical data report for the Devere & Sons Project located in Cle Elum, Washington. Water samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B on November 15, 2009 and Diesel & Oil by NWTPH-Dx/Dx Extended on November 12, 2009.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

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
President
Libby Environmental, Inc.

LIBBY ENVIRONMENTAL CHEMISTRY LABORATORY

DEVERE & SONS PROJECT

Cle Elum, Washington

AEG, LLC

Client Project #355-001

Libby Project No.L091111-5

(06-192)

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Water

Sample Number	Date Analyzed	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	Gasoline (ug/l)	Surrogate Recovery (%)
Method Blank	11/15/09	nd	nd	nd	nd	nd	100
LCS	11/15/09	88%	97%				96
MW6-W	11/15/09	nd	nd	nd	nd	nd	101
MW1-W	11/15/09	nd	nd	nd	nd	nd	106
MW2b-W	11/15/09	nd	nd	nd	nd	nd	104
MS L091112-3	11/15/09	85%	97%				104
Practical Quantitation Limit		1.0	2.0	1.0	3.0	100	

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

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Deanna M. Donovan

LIBBY ENVIRONMENTAL CHEMISTRY LABORATORY

DEVERE & SONS PROJECT
Cle Elum, Washington
AEG, LLC
Client Project #355-001
Libby Project No.L091111-5

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (ug/l)	Mineral Oil (ug/l)	Oil (ug/l)
Method Blank	11/12/09	102	nd	nd	nd
MW6-W	11/12/09	85	nd	nd	nd
MW1-W	11/12/09	98	nd	nd	nd
MW1-W Dup	11/12/09	89	nd	nd	nd
MW2b-W	11/12/09	98	nd	nd	nd
Practical Quantitation Limit			200	400	400

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

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Athanasius Shaw

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Chain of Custody Record

Date: 11/11/09 Page: 1 of 1

Client: AEB
Address: 1700 State Ave NE Olympia, WA
Phone: 360-352-9835 Fax: 360-352-4164
Client Project #: 26-192

Project Manager: Y. VAN
Project Name: DEVERE & SON
Location: Cle Elum
Collector: K. Raszund Date of Collection: 11/11/09

Sample Number	Depth	Time	Sample Type	Container Type	VOA 8021B BTEX ONLY	VOA 8021B	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	NWTPH-DX EX	PAH 8270	PCBS 8082	MTCAs Metals	Field Note/# Containers
1 MW6-W	NA	1115	H ₂ O													VOA Poly Amber
2 MW1-W	"	1142	"													"
3 MW26-W	"	1220	"													"
4 MW3-W	"	1246	"													Hold
5 MW4-W	"	1316	"													Hold
6 MW5b-W	"	1344	"													Hold
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																

Relinquished by: [Signature] Date / Time: 11/11/09 1620 Received by: [Signature] Date / Time: 11/11/09 1620 Remarks: STO

Relinquished by: _____ Date / Time: _____ Received by: _____ Date / Time: _____

Relinquished by: _____ Date / Time: _____ Received by: _____ Date / Time: _____

Good Condition? Cold? Seals Intact? Total Number of Containers: _____

TAT 24HR 48HR 5-Day